

2021 Index

IEEE Internet of Things Journal

Vol. 8

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2021, and items from previous years that were commented upon or corrected in 2021. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

Author Index

A

- Abbas, H.**, *see* Rauf, B., *JIoT April 15, 2021 6359-6371*
- Abbas, H.**, *see* Altaf, A., *JIoT May 1, 2021 7497-7509*
- Abbas, H.**, *see* Iqbal, W., *JIoT June 15, 2021 9622-9633*
- Abbas, Y.**, *see* Iqbal, W., *JIoT June 15, 2021 9622-9633*
- Abbasi, O.**, *see* Ren, Q., *JIoT Feb. 1, 2021 1453-1466*
- Abbasi, Q.H.**, *see* Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
- Abd-Alhameed, R.A.**, *see* Oguntala, G.A., *JIoT July 1, 2021 10953-10962*
- Abdallah, M.**, *see* Alwarafy, A., *JIoT March 15, 2021 4004-4022*
- Abdallah, M.**, *see* Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Abdel-Basset, M.**, Hawash, H., Chakraborty, R.K., Ryan, M., Elhoseny, M., and Song, H., ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications; *JIoT March 15, 2021 4969-4979*
- Abdel-Basset, M.**, Hawash, H., Chakraborty, R.K., and Ryan, M.J., Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks; *JIoT Aug. 1, 2021 12251-12265*
- Abdel-Basset, M.**, Hawash, H., Chakraborty, R.K., and Ryan, M., Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities; *JIoT Aug. 1, 2021 12422-12435*
- Abdel-Basset, M.**, El-Shahat, D., Elhoseny, M., and Song, H., Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications; *JIoT Aug. 15, 2021 12638-12649*
- Abdelghany, K.**, *see* Alghuson, M.K., *JIoT Aug. 1, 2021 12384-12397*
- Abdulkareem, K.H.**, Mohammed, M.A., Salim, A., Arif, M., Geman, O., Gupta, D., and Khanna, A., Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment; *JIoT Nov. 1, 2021 15919-15928*
- Abdullah, S.**, *see* Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*
- Abdulrahman, S.**, Tout, H., Mourad, A., and Talhi, C., FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning; *JIoT March 15, 2021 4723-4735*
- Abdulrahman, S.**, Tout, H., Ould-Slimane, H., Mourad, A., Talhi, C., and Guizani, M., A Survey on Federated Learning: The Journey From Centralized to Distributed On-Site Learning and Beyond; *JIoT April 1, 2021 5476-5497*
- Abichandani, P.**, Lobo, D., Kabrawala, S., and McIntyre, W., Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain; *JIoT Feb. 1, 2021 1783-1796*
- Abkenar, F.S.**, Khan, K.S., and Jamalipour, A., Smart-Cluster-Based Distributed Caching for Fog-IoT Networks; *JIoT March 1, 2021 3875-3884*
- Abolhasan, M.**, *see* Amiri, M., *JIoT March 15, 2021 4105-4131*
- Abouamar, A.**, Cherkaoui, S., Mlika, Z., and Kobbane, A., Resource Provisioning in Edge Computing for Latency-Sensitive Applications; *JIoT July 15, 2021 11088-11099*
- Aboueji, J.**, *see* Askari, Z., *JIoT Sept. 15, 2021 13975-13990*
- Abouzaid, L.**, Sabir, E., Elbiaze, H., Errami, A., and Benhammouch, O., The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things ; *JIoT March 1, 2021 3743-3757*
- Abu-Amara, M.**, *see* Mahyoub, M., *JIoT May 1, 2021 7152-7169*
- Abuadba, A.**, *see* Zhu, F., *JIoT July 15, 2021 11678-11689*
- Abualsaud, K.**, *see* Gouissem, A., *JIoT Dec. 1, 2021 16880-16893*
- Abuhamad, M.**, Abusnaina, A., Nyang, D., and Mohaisen, D., Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey; *JIoT Jan. 1, 2021 65-84*
- Abusnaina, A.**, *see* Abuhamad, M., *JIoT Jan. 1, 2021 65-84*
- Abusorrah, A.**, *see* Han, H., *JIoT Feb. 15, 2021 3042-3052*
- Abusorrah, A.**, *see* Bi, J., *JIoT March 1, 2021 3774-3785*
- Abusorrah, A.**, *see* Yang, S., *JIoT Dec. 15, 2021 17320-17332*
- Abusukhon, A.**, Toward Achieving a Balance Between the User Satisfaction and the Power Conservation in the Internet of Things; *JIoT July 15, 2021 10998-11015*
- Achalla, M.**, *see* Banavar, M.K., *JIoT Dec. 1, 2021 17111-17119*
- Acharya, D.**, *see* Kumar, N., *JIoT Jan. 15, 2021 869-880*
- Acharya, D.**, *see* Rastogi, K., *JIoT June 1, 2021 9257-9267*
- Acheampong, K.N.**, *see* Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Adachi, F.**, *see* Wang, J., *JIoT Feb. 1, 2021 1883-1895*
- Adebisi, B.**, *see* Jogunola, O., *JIoT March 15, 2021 4211-4227*
- Adebisi, B.**, *see* Popoola, S.I., *JIoT March 15, 2021 4944-4956*
- Adeel Pasha, M.**, *see* Ali, B., *JIoT March 1, 2021 3822-3830*
- Adege, A.B.**, *see* Tarekegn, G.B., *JIoT March 1, 2021 3717-3729*
- Ademaj, F.**, Rzymowski, M., Bernhard, H., Nyka, K., and Kulas, L., Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas; *JIoT Nov. 15, 2021 16653-16665*
- Adhikari, K.**, *see* Makarfi, A.U., *JIoT Jan. 1, 2021 443-457*
- Adhikari, M.**, *see* Hazra, A., *JIoT April 1, 2021 5185-5193*
- Adin, I.**, *see* Figueroa-Lorenzo, S., *JIoT Sept. 1, 2021 13306-13315*
- Afsiadis, O.**, Li, S., Tapparel, J., Burg, A., and Balatsoukas-Stimming, A., On the Advantage of Coherent LoRa Detection in the Presence of Interference; *JIoT July 15, 2021 11581-11593*
- Afzal, H.**, *see* Kasi, S.K., *JIoT July 1, 2021 10308-10317*
- Aggarwal, S.**, Kumar, N., and Tanwar, S., Blockchain-Envisioned UAV Communication Using 6G Networks: Open Issues, Use Cases, and Future Directions; *JIoT April 1, 2021 5416-5441*
- Aghvami, A.H.**, *see* Zhang, M., *JIoT Sept. 1, 2021 13608-13623*
- Aguiar, J.**, *see* Ouedraogo, C.A., *JIoT March 1, 2021 3885-3903*
- Agyekum, K.O.O.**, *see* Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Ahmad, A.**, *see* Ahmed, I., *JIoT Nov. 1, 2021 15855-15862*
- Ahmad, F.**, *see* Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*
- Ahmadi, H.**, *see* Goudarzi, S., *JIoT Jan. 15, 2021 976-988*
- Ahmadi, H.**, *see* Haghghatdoost, V., *JIoT April 1, 2021 5710-5721*
- Ahmadian, A.**, Shin, W., and Park, H., Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks ; *JIoT April 1, 2021 5866-5880*
- Ahmed, I.**, Jeon, G., and Piccialli, F., A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things; *JIoT July 1, 2021 10318-10326*
- Ahmed, I.**, Ahmad, A., and Jeon, G., An IoT-Based Deep Learning Framework for Early Assessment of Covid-19; *JIoT Nov. 1, 2021 15855-15862*
- Ahmed, S.**, *see* Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Ahmed, S.H.**, *see* Liu, Y., *JIoT June 15, 2021 9827-9837*
- Ahmed, S.H.**, *see* Xiao, G., *JIoT Aug. 15, 2021 12748-12757*
- Ahmed, T.**, *see* Singh, R., *JIoT April 15, 2021 6214-6221*
- Ahn, C.K.**, *see* Xu, Y., *JIoT Feb. 1, 2021 1716-1727*
- Ai, B.**, *see* Ma, Y., *JIoT March 1, 2021 3490-3499*

- Ai, B.**, see Wang, C., *JIoT March 15, 2021 4788-4801*
- Ai, Q.**, see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
- Al-Naday, M.F.**, see Hu, J., *JIoT Feb. 15, 2021 2102-2115*
- Aijaz, A.**, and Stanoev, A., Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications; *JIoT Aug. 1, 2021 11860-11876*
- Ajib, W.**, see Hentati, A., *JIoT March 15, 2021 4920-4930*
- Akar, N.**, and Dogan, O., Discrete-Time Queuing Model of Age of Information With Multiple Information Sources; *JIoT Oct. 1, 2021 14531-14542*
- Akbar, A.**, Ibrar, M., Jan, M.A., Bashir, A.K., and Wang, L., SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization; *JIoT March 1, 2021 3057-3065*
- Akbar, A.**, see Ibrar, M., *JIoT March 1, 2021 3130-3142*
- Akbari, A.**, see Razian, M., *JIoT March 1, 2021 3665-3677*
- Akerkar, R.**, see Zhou, Q., *JIoT Aug. 1, 2021 11916-11934*
- Akhtar, A.**, see Prabhakaran, B.S., *JIoT Sept. 1, 2021 13251-13265*
- Akleylek, S.**, Soysaldi, M., Lee, W., Hwang, S.O., and Wong, D.C., Novel Postquantum MQ-Based Signature Scheme for Internet of Things With Parallel Implementation; *JIoT April 15, 2021 6983-6994*
- Akmal, S.M.A.**, see Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*
- Akyildiz, I.F.**, see Kak, A., *JIoT Feb. 1, 2021 1749-1768*
- Al Faruque, M.A.**, see Rashid, N., *JIoT Jan. 15, 2021 860-868*
- Al Faruque, M.A.**, see Dautta, M., *JIoT May 1, 2021 7600-7609*
- Al-Ali, A.**, see Ghubaish, A., *JIoT June 1, 2021 8707-8718*
- Al-Dubai, A.**, see Hawbani, A., *JIoT June 1, 2021 8976-8989*
- Al-Dubai, A.Y.**, see Zhao, L., *JIoT Feb. 1, 2021 2066-2077*
- Al-Dubai, A.Y.**, see Peng, S., *JIoT July 1, 2021 10815-10829*
- Al-Dulaimi, A.**, see Mumtaz, S., *JIoT April 1, 2021 5111-5113*
- Al-Dweik, A.**, see Yahya, H., *JIoT Oct. 1, 2021 14896-14907*
- Al-Fuqaha, A.**, see Qolomany, B., *JIoT Feb. 15, 2021 2943-2958*
- Al-Fuqaha, A.**, see Mohammed, I., *JIoT April 1, 2021 5938-5952*
- Al-Hawawreh, M.**, and Sitnikova, E., Developing a Security Testbed for Industrial Internet of Things; *JIoT April 1, 2021 5558-5573*
- Al-Hourani, A.**, see Humssi, B.A., *JIoT March 15, 2021 4461-4471*
- Al-Mutib, K.N.**, see Lu, J., *JIoT Nov. 1, 2021 15839-15846*
- Al-Nabhan, N.**, see Zhang, T., *JIoT Nov. 1, 2021 16002-16013*
- Al-Naffouri, T.Y.**, see Khalil, R.A., *JIoT July 15, 2021 11016-11040*
- Al-Naffouri, T.Y.**, see Bushnaq, O.M., *JIoT Dec. 1, 2021 16984-16999*
- Al-Otaibi, Y.D.**, see Zhen, L., *JIoT April 1, 2021 5114-5128*
- Al-Qaness, M.A.A.**, see Hawbani, A., *JIoT June 1, 2021 8976-8989*
- Al-Selwi, A.S.**, see Michelinakis, F., *JIoT Jan. 15, 2021 1224-1242*
- Al-Thelaya, K.A.**, see Alwarafy, A., *JIoT March 15, 2021 4004-4022*
- Alabdullah, A.A.S.**, see Oguntala, G.A., *JIoT July 1, 2021 10953-10962*
- Alam, F.**, Faulkner, N., and Parr, B., Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning; *JIoT March 15, 2021 4228-4249*
- Alam, M.M.**, see Khan, S.M.Z., *JIoT Oct. 1, 2021 14756-14772*
- Alamri, A.**, see Wozniak, M., *JIoT April 1, 2021 5442-5452*
- Alasmary, W.**, see Ibrahim, M.I., *JIoT Jan. 15, 2021 1243-1258*
- Alasmary, W.**, see Ibrahim, M.I., *JIoT Dec. 1, 2021 17131-17146*
- Alay, O.**, see Caso, G., *JIoT July 15, 2021 11384-11399*
- Alay, O.**, see Caso, G., *JIoT Sept. 1, 2021 13774-13788*
- Alazab, M.**, see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
- Alazab, M.**, see Gu, B., *JIoT March 1, 2021 3066-3074*
- Alazab, M.**, see Ghahramani, M., *JIoT March 1, 2021 3619-3635*
- Alazab, M.**, see Wang, K., *JIoT April 1, 2021 5332-5339*
- Aledhari, M.**, see Yazdinejad, A., *JIoT April 15, 2021 6406-6415*
- Alghuson, M.K.**, Abdelghany, K., and Hassan, A., Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles; *JIoT Aug. 1, 2021 12384-12397*
- Ali, A.E.A.**, see Younan, M., *JIoT April 1, 2021 5953-5972*
- Ali, B.**, Adeel Pasha, M., Islam, S.u., Song, H., and Buyya, R., A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications; *JIoT March 1, 2021 3822-3830*
- Ali, K.**, see Farha, F., *JIoT April 1, 2021 5904-5913*
- Ali, K.**, see Kasi, S.K., *JIoT July 1, 2021 10308-10317*
- Ali, M.**, see Tariq, M., *JIoT April 1, 2021 5468-5475*
- Ali, M.**, see Oguntala, G.A., *JIoT July 1, 2021 10953-10962*
- Ali, M.A.**, and Jamalipour, A., UAV-Aided Cellular Operation by User Offloading; *JIoT June 15, 2021 9855-9864*
- Alipour-Fanid, A.**, Dabaghchian, M., Wang, N., Jiao, L., and Zeng, K., Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS; *JIoT Sept. 1, 2021 13278-13290*
- Alkadi, O.**, Moustafa, N., Turnbull, B., and Choo, K.R., A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks; *JIoT June 15, 2021 9463-9472*
- Alladi, T.**, see Grover, H., *JIoT Oct. 1, 2021 14787-14796*
- Almajed, H.**, see Almogren, A., *JIoT March 15, 2021 4485-4497*
- Almajed, H.**, see Awan, K.A., *JIoT Nov. 1, 2021 15672-15682*
- Almogren, A.**, Mohiuddin, I., Din, I.U., Almajed, H., and Guizani, N., FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things; *JIoT March 15, 2021 4485-4497*
- Almogren, A.**, see Ray, P.P., *JIoT July 1, 2021 10857-10872*
- Almogren, A.**, see Awan, K.A., *JIoT Nov. 1, 2021 15672-15682*
- Almoed, D.**, see Costa, L.R., *JIoT May 1, 2021 7316-7332*
- Aloqaily, M.**, see Lin, J.C., *JIoT April 1, 2021 5340-5349*
- Aloqaily, M.**, see Elayan, H., *JIoT Dec. 1, 2021 16749-16757*
- Alotaibi, R.**, see Jiang, Y., *JIoT July 1, 2021 10356-10366*
- Alouini, M.**, see Zhaikhan, A., *JIoT April 1, 2021 6039-6052*
- Alouini, M.**, see Khalil, R.A., *JIoT July 15, 2021 11016-11040*
- Alouini, M.**, see Hammouti, H.E., *JIoT Sept. 15, 2021 14066-14079*
- Alouini, M.**, see Raut, P., *JIoT Dec. 15, 2021 17655-17668*
- Alqahtani, S.**, see Masud, M., *JIoT Nov. 1, 2021 15694-15703*
- Alrajeh, N.A.**, see Rahman, A., *JIoT June 15, 2021 9603-9610*
- Alrashoud, M.**, see Xiao, W., *JIoT April 15, 2021 6305-6312*
- Alrashoud, M.**, see Lu, J., *JIoT Nov. 1, 2021 15839-15846*
- Alshehri, M.D.**, see Sun, J., *JIoT Nov. 1, 2021 15663-15671*
- Alsolami, F.**, see Ibrahim, M.I., *JIoT Jan. 15, 2021 1243-1258*
- Alsolami, F.**, see Rahman, A., *JIoT June 15, 2021 9603-9610*
- Alsolami, F.**, see Ibrahim, M.I., *JIoT Dec. 1, 2021 17131-17146*
- Alsusa, E.**, see Yahya, H., *JIoT Oct. 1, 2021 14896-14907*
- Alsusa, E.**, see Shi, Y., *JIoT Dec. 15, 2021 17261-17274*
- Altah, A.**, Abbas, H., Iqbal, F., Khan, M.M.Z.M., and Daneshmand, M., Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings; *JIoT May 1, 2021 7497-7509*
- Alturki, R.**, see Sun, J., *JIoT Nov. 1, 2021 15663-15671*
- Alves, H.**, see Lopez, O.L.A., *JIoT Jan. 1, 2021 278-296*
- Alves, H.**, see Lopez, O.L.A., *JIoT June 1, 2021 8816-8835*
- Alves, H.**, see Rosabal, O.M., *JIoT July 1, 2021 10531-10542*
- Alves, H.**, see Shehab, M., *JIoT July 15, 2021 11135-11149*
- Alwarafy, A.**, Al-Thelaya, K.A., Abdallah, M., Schneider, J., and Hamdi, M., A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things; *JIoT March 15, 2021 4004-4022*
- Alzahrani, B.**, see Jiang, Y., *JIoT July 1, 2021 10356-10366*
- Aman, M.N.**, Javaid, U., and Sikdar, B., A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles; *JIoT Jan. 15, 2021 1123-1139*
- Amanatides, C.E.**, see Tajin, M.A.S., *JIoT Sept. 1, 2021 13763-13773*
- Amgoth, T.**, see Hazra, A., *JIoT April 1, 2021 5185-5193*
- Amini, A.**, see Tehrani, Y.H., *JIoT April 1, 2021 6002-6011*
- Amiri, M.**, Tofigh, F., Shariati, N., Lipman, J., and Abolhasan, M., Review on Metamaterial Perfect Absorbers and Their Applications to IoT; *JIoT March 15, 2021 4105-4131*
- Amor, M.**, see Canete, A., *JIoT Nov. 15, 2021 16427-16439*
- An, B.**, see Nguyen, T., *JIoT May 1, 2021 7423-7436*
- An, B.**, see Shim, K., *JIoT Dec. 15, 2021 17476-17494*
- An, D.**, see Zhang, F., *JIoT March 1, 2021 3075-3087*
- An, J.**, see Gong, S., *JIoT May 15, 2021 8585-8602*
- An, J.**, see Liu, H., *JIoT Oct. 1, 2021 14458-14470*
- An, K.**, see Zhang, X., *JIoT April 15, 2021 7009-7023*
- An, K.**, see Yan, Y., *JIoT May 15, 2021 8159-8172*

- An, Y.**, Yu, F.R., Li, J., Chen, J., and Leung, V.C.M., Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT); *JIoT March 1, 2021 3554-3566*
- Anbalagan, S.**, Bashir, A.K., Raja, G., Dhanasekaran, P., Vijayaraghavan, G., Tariq, U., and Guizani, M., Machine-Learning-Based Efficient and Secure RSU Placement Mechanism for Software-Defined-IoV; *JIoT Sept. 15, 2021 13950-13957*
- Anchal, S.**, see Mukhopadhyay, B., *JIoT Sept. 1, 2021 13384-13396*
- Ang, K.L.**, and Seng, J.K.P., Embedded Intelligence: Platform Technologies, Device Analytics, and Smart City Applications; *JIoT Sept. 1, 2021 13165-13182*
- Angelov, P.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Anisi, M.H.**, see Goudarzi, S., *JIoT Jan. 15, 2021 976-988*
- Anokye, S.**, see Seid, A.M., *JIoT Aug. 1, 2021 12203-12218*
- Anorga, J.**, see Figueroa-Lorenzo, S., *JIoT Sept. 1, 2021 13306-13315*
- Anpalagan, A.**, see Bai, W., *JIoT April 15, 2021 6865-6877*
- Anpalagan, A.**, see Askari, Z., *JIoT Sept. 15, 2021 13975-13990*
- Ansari, N.**, see Yao, J., *JIoT March 1, 2021 3438-3445*
- Ansari, N.**, see Yao, J., *JIoT March 1, 2021 3268-3275*
- Ansari, N.**, see Wu, D., *JIoT April 1, 2021 5510-5517*
- Anton, S.D.D.**, Fraunholz, D., Krohmer, D., Reti, D., Schneider, D., and Schotten, H.D., The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World; *JIoT Dec. 15, 2021 17525-17540*
- Arevalillo-Herraez, M.**, see Arnau-Gonzalez, P., *JIoT Aug. 1, 2021 12219-12230*
- Arias, A.C.**, see Evans, J.W., *JIoT June 15, 2021 10047-10051*
- Arif, M.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021 15919-15928*
- Armando, N.**, Sa Silva, J., and Boavida, F., An Approach to the Unified Management of Heterogeneous IoT Environments ; *JIoT April 15, 2021 6916-6927*
- Arnau-Gonzalez, P.**, Katsigiannis, S., Arevalillo-Herraez, M., and Ramzan, N., BED: A New Data Set for EEG-Based Biometrics; *JIoT Aug. 1, 2021 12219-12230*
- Arrizabalaga, S.**, see Figueroa-Lorenzo, S., *JIoT Sept. 1, 2021 13306-13315*
- Arshad, J.**, see Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*
- Arshad, Q.**, see Khan, W.Z., *JIoT May 15, 2021 7768-7788*
- Aryal, A.**, Becerik-Gerber, B., Lucas, G.M., and Roll, S.C., Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation; *JIoT April 15, 2021 7089-7100*
- Arzo, S.T.**, Naiga, C., Granelli, F., Bassoli, R., Devetsikiotis, M., and Fitzek, F.H.P., A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity; *JIoT Aug. 1, 2021 12021-12045*
- Asfour, M.**, see Gamaleldin, M., *JIoT June 1, 2021 9373-9382*
- Ashdown, J.**, see Song, H., *JIoT July 15, 2021 11208-11218*
- Asheralieva, A.**, and Niyato, D., Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems; *JIoT Oct. 1, 2021 14874-14895*
- Ashikhmin, A.**, see Wang, X., *JIoT Jan. 1, 2021 332-344*
- Ashikhmin, A.**, see Yan, H., *JIoT Oct. 1, 2021 14705-14718*
- Ashour, M.**, see Edward, P., *JIoT March 1, 2021 3864-3874*
- Ashraf, H.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Ashraf, M.I.**, see Mumtaz, S., *JIoT April 1, 2021 5111-5113*
- Askari, Z.**, Abouei, J., Jaseemuddin, M., and Anpalagan, A., Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs; *JIoT Sept. 15, 2021 13975-13990*
- Asplund, H.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Assi, C.**, see Khabbaz, M., *JIoT July 1, 2021 10745-10754*
- Astrain, J.J.**, see Martin-Lammerding, D., *JIoT March 1, 2021 3636-3652*
- Atarodi, S.M.**, see Tehrani, Y.H., *JIoT April 1, 2021 6002-6011*
- Atiquzzaman, M.**, see Qiu, T., *JIoT June 15, 2021 9473-9483*
- Atzori, L.**, see Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
- Atzori, L.**, see Dhelim, S., *JIoT Dec. 15, 2021 17817-17828*
- Aujla, G.S.**, see Singh, P., *JIoT Aug. 15, 2021 12569-12577*
- Aung, N.**, see Dhelim, S., *JIoT April 15, 2021 7024-7035*
- Aved, A.J.**, see Nikouei, S.Y., *JIoT Nov. 1, 2021 16181-16190*
- Avlani, S.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Awad Abdellatif, A.**, see Saria Allahham, M., *JIoT April 15, 2021 6454-6468*
- Awad Abdellatif, A.**, Samara, L., Mohamed, A., Erbad, A., Chiasserini, C.F., Guizani, M., O'Connor, M.D., and Loughton, J., MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange; *JIoT Nov. 1, 2021 15762-15775*
- Awais, M.**, Raza, M., Singh, N., Bashir, K., Manzoor, U., Islam, S.U., and Rodrigues, J.J.P.C., LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19; *JIoT Dec. 1, 2021 16863-16871*
- Awan, K.A.**, Din, I.U., Almogren, A., Almajed, H., Mohiuddin, I., and Guizani, M., NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things; *JIoT Nov. 1, 2021 15672-15682*
- Ayaz, F.**, Sheng, Z., Tian, D., and Guan, Y.L., A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination; *JIoT Feb. 15, 2021 2468-2482*
- Aydin, Y.**, Kurt, G.K., Ozdemir, E., and Yanikomeroglu, H., Group Handover for Drone Base Stations; *JIoT Sept. 15, 2021 13876-13887*
- Azad, M.A.**, Arshad, J., Akmal, S.M.A., Riaz, F., Abdullah, S., Imran, M., and Ahmad, F., A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications; *JIoT Nov. 1, 2021 15796-15806*
- Azmi, P.**, see Forouzes, M., *JIoT May 1, 2021 7170-7181*

B

- Bala Krishna, M.**, and Lorenz, P., Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things; *JIoT Jan. 1, 2021 407-417*
- Balasubramaniam, V.**, see Chen, C., *JIoT April 1, 2021 5309-5320*
- Balatsoukas-Stimming, A.**, see Afisiadis, O., *JIoT July 15, 2021 11581-11593*
- Baltaci, A.**, see Tavana, M., *JIoT Aug. 1, 2021 11834-11846*
- Banavar, M.K.**, Wickramasinghe, S., Achalla, M., and Sun, J., Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures; *JIoT Dec. 1, 2021 17111-17119*
- Banelli, P.**, see Battiloro, C., *JIoT May 15, 2021 8530-8542*
- Banerjee, U.**, see Maji, S., *JIoT Aug. 1, 2021 12079-12092*
- Bang, J.**, see Lee, K., *JIoT Feb. 1, 2021 1467-1476*
- Bansal, R.**, see Serdah, M., *JIoT April 15, 2021 7036-7045*
- Bao, W.**, see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Bao, X.**, see Zhang, F., *JIoT Nov. 15, 2021 16522-16534*
- Bao, Y.**, Qiu, W., and Cheng, X., Efficient and Fine-Grained Signature for IIoT With Resistance to Key Exposure; *JIoT June 1, 2021 9189-9205*
- Bao, Z.**, Dong, Y., Chen, Z., Fan, P., and Letaief, K.B., Age-Optimal Service and Decision Processes in Internet of Things ; *JIoT Feb. 15, 2021 2826-2841*
- Bapatla, D.**, and Prakriya, S., Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay; *JIoT March 15, 2021 5045-5061*
- Barba, J.**, see Caruso, A., *JIoT Nov. 15, 2021 16692-16704*
- Barbarossa, S.**, see Battiloro, C., *JIoT May 15, 2021 8530-8542*
- Barcelo-Ordinas, J.M.**, see Ferrer-Cid, P., *JIoT Sept. 1, 2021 13652-13663*
- Bargh, S.H.**, see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*
- Bariah, L.**, Muhaidat, S., Sofotasios, P.C., Bouanani, F.E., Dobre, O.A., and Hamouda, W., Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis; *JIoT April 1, 2021 5129-5140*
- Barnaghi, P.**, see Qiu, M., *JIoT June 15, 2021 9460-9462*
- Barnaghi, P.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Barnawi, A.**, see Jiang, Y., *JIoT July 1, 2021 10356-10366*
- Barsallo Yi, E.A.**, see Jiang, X., *JIoT Jan. 15, 2021 901-915*
- Barshan, B.**, see Yurtman, A., *JIoT May 15, 2021 8328-8342*
- Bartocci, E.**, see Ma, M., *JIoT Aug. 1, 2021 11793-11806*
- Barton, R.**, see Zhu, B., *JIoT March 15, 2021 4868-4881*
- Bashir, A.K.**, see Shafiq, M., *JIoT March 1, 2021 3242-3254*
- Bashir, A.K.**, see Akbar, A., *JIoT March 1, 2021 3057-3065*
- Bashir, A.K.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Bashir, A.K.**, see Zhen, L., *JIoT April 1, 2021 5114-5128*
- Bashir, A.K.**, see Guo, Z., *JIoT June 15, 2021 9549-9558*
- Bashir, A.K.**, see Anbalagan, S., *JIoT Sept. 15, 2021 13950-13957*
- Bashir, K.**, see Awais, M., *JIoT Dec. 1, 2021 16863-16871*
- Baskar, S.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Bassoli, R.**, see Arzo, S.T., *JIoT Aug. 1, 2021 12021-12045*
- Batmaz, B.**, and Dogan, A., CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices; *JIoT Dec. 15, 2021 17790-17801*
- Batth, R.S.**, see Singh, P., *JIoT Aug. 15, 2021 12569-12577*
- Battiloro, C.**, Di Lorenzo, P., Banelli, P., and Barbarossa, S., Dynamic Resource Optimization for Decentralized Estimation in Energy Harvesting IoT Networks; *JIoT May 15, 2021 8530-8542*
- Bauch, G.**, see Emar, M., *JIoT Feb. 1, 2021 1477-1491*
- Bayat-Sarmadi, S.**, see Salehi, M., *JIoT May 1, 2021 7372-7379*
- Bayat-Sarmadi, S.**, see Ebrahimi, S., *JIoT July 1, 2021 10706-10713*
- Becerik-Gerber, B.**, see Aryal, A., *JIoT April 15, 2021 7089-7100*
- Bechtel, A.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Beck, K.L.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Bedeer, E.**, see Zhu, B., *JIoT March 15, 2021 4868-4881*
- Beko, M.**, and Tomic, S., Toward Secure Localization in Randomly Deployed Wireless Networks ; *JIoT Dec. 15, 2021 17436-17448*
- Bellavista, P.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- Bello, Y.**, see Singh, J., *JIoT April 1, 2021 5794-5805*
- Beltrame, G.**, see Cao, Y., *JIoT Sept. 1, 2021 13449-13464*
- Beltramelli, L.**, Mahmood, A., Ferrari, P., Osterberg, P., Gidlund, M., and Sisinii, E., Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization; *JIoT May 15, 2021 7912-7924*
- Bemthuis, R.**, see Mijuskovic, A., *JIoT Feb. 1, 2021 1797-1816*
- Benatti, S.**, see Burrello, A., *JIoT March 15, 2021 4433-4447*
- Benhammouch, O.**, see Abouzaid, L., *JIoT March 1, 2021 3743-3757*
- Benini, L.**, see Burrello, A., *JIoT March 15, 2021 4433-4447*
- Benini, L.**, see Scherer, M., *JIoT July 1, 2021 10336-10346*
- Bennis, M.**, see Seo, H., *JIoT Jan. 1, 2021 129-143*
- Bennis, M.**, see Park, T., *JIoT June 15, 2021 10160-10169*
- Bera, B.**, Saha, S., Das, A.K., and Vasilakos, A.V., Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System; *JIoT April 1, 2021 5744-5761*
- Bernhard, H.**, see Ademaj, F., *JIoT Nov. 15, 2021 16653-16665*
- Berrolcal, J.**, see Herrera, J.L., *JIoT Dec. 1, 2021 17172-17185*
- Beschi, M.**, see Kianoush, S., *JIoT Jan. 15, 2021 1154-1168*
- Bessas, H.**, see Djamaa, B., *JIoT July 15, 2021 11400-11414*
- Bharti, S.**, see Jain, S., *JIoT March 15, 2021 4882-4892*
- Bharti, V.**, see Kumar, A., *JIoT Dec. 15, 2021 17778-17789*
- Bhat, G.M.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- Bhatia, M.**, IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry; *JIoT June 15, 2021 9523-9530*
- Bhattacharjee, A.**, Bhattacharjee, R., and Bose, S.K., An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks; *JIoT Oct. 1, 2021 14607-14622*
- Bhattacharjee, M.**, Nikbakhtnasrabadi, F., and Dahiya, R., Printed Chipless Antenna as Flexible Temperature Sensor; *JIoT March 15, 2021 5101-5110*
- Bhattacharjee, M.**, see Escobedo, P., *JIoT March 15, 2021 5093-5100*
- Bhattacharjee, R.**, see Bhattacharjee, A., *JIoT Oct. 1, 2021 14607-14622*
- Bhattacharya, M.**, see Kaur, G., *JIoT July 15, 2021 11440-11449*
- Bhattacharya, P.**, see Patel, N.S., *JIoT Oct. 1, 2021 14797-14809*
- Bhattacharyya, R.**, see Dey, S., *JIoT March 1, 2021 3955-3971*
- Bhatti, N.A.**, see Shah, A.A., *JIoT June 1, 2021 9397-9406*
- Bhuiyan, M.N.**, Rahman, M.M., Billah, M.M., and Saha, D., Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities; *JIoT July 1, 2021 10474-10498*
- Bhuiyan, M.Z.A.**, see Zhu, X., *JIoT June 15, 2021 9763-9773*
- Bhunia, S.**, see Chakraborty, P., *JIoT May 1, 2021 7303-7315*
- Bi, J.**, Yuan, H., Duanmu, S., Zhou, M., and Abusorrah, A., Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization; *JIoT March 1, 2021 3774-3785*
- Bi, J.**, see Dou, F., *JIoT April 15, 2021 6519-6535*
- Bi, S.**, see Zheng, Y., *JIoT May 15, 2021 8399-8410*
- Bi, X.**, Qiu, T., Qu, W., Zhao, L., Zhou, X., and Wu, D.O., Dynamically Transient Social Community Detection for Mobile Social Networks; *JIoT Feb. 1, 2021 1282-1293*
- Bian, K.**, see Gao, J., *JIoT Jan. 1, 2021 428-442*
- Bianco, G.M.**, Giuliano, R., Marrocco, G., Mazzenga, F., and Mejia-Aguilar, A., LoRa System for Search and Rescue: Path-Loss Models and Procedures in Mountain Scenarios; *JIoT Feb. 1, 2021 1985-1999*
- Billah, M.M.**, see Bhuiyan, M.N., *JIoT July 1, 2021 10474-10498*
- Binh, H.T.T.**, see Zhang, J., *JIoT March 1, 2021 3310-3322*
- Bishoyi, P.K.**, see Tiwari, M., *JIoT July 1, 2021 10631-10638*
- Bisht, A.**, see Nguyen, S., *JIoT April 15, 2021 6928-6939*
- Blasch, E.**, see Nikouei, S.Y., *JIoT Nov. 1, 2021 16181-16190*
- Blondia, C.**, see Delgado, C., *JIoT Feb. 15, 2021 2694-2711*
- Blondia, C.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- Blondia, C.**, see Sultania, A.K., *JIoT Aug. 1, 2021 12436-12454*
- Boateng, G.O.**, see Seid, A.M., *JIoT Aug. 1, 2021 12203-12218*
- Boavida, F.**, see Armando, N., *JIoT April 15, 2021 6916-6927*
- Bobarshad, H.**, see Taghizadeh, S., *JIoT May 15, 2021 8474-8487*
- Bodanese, E.L.**, see Kanapram, D.T., *JIoT March 1, 2021 3224-3241*
- Bolivar, J.A.L.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Borgiani, V.**, Moratori, P., Kazienko, J.F., Tubino, E.R.R., and Quincozes, S.E., Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things ; *JIoT March 15, 2021 4569-4578*
- Bose, S.K.**, see Bhattacharjee, A., *JIoT Oct. 1, 2021 14607-14622*

Boshoff, D., see Yang, A., *JIoT July 15, 2021 11607-11620*
Bouanani, F.E., see Mohammed, I., *JIoT April 1, 2021 5938-5952*
Bouanani, F.E., see Bariah, L., *JIoT April 1, 2021 5129-5140*
Boujelben, Y., Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G; *JIoT Oct. 15, 2021 15568-15581*
Boulahia Cuppens, N., see Navas, R.E., *JIoT May 15, 2021 7818-7832*
Brante, G., see Farhat, J., *JIoT Oct. 1, 2021 14672-14682*
Braten, A.E., Kraemer, F.A., and Palma, D., Autonomous IoT Device Management Systems: Structured Review and Generalized Cognitive Model; *JIoT March 15, 2021 4275-4290*
Brea, V.M., see Fernandez-Sanjurjo, M., *JIoT June 1, 2021 9177-9188*
Brecheisen, Z., see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
Brennan, T., see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
Brown, S., see Finnegan, J., *JIoT April 1, 2021 5736-5743*
Brunelli, D., see Burrello, A., *JIoT March 15, 2021 4433-4447*
Brunstrom, A., see Caso, G., *JIoT July 15, 2021 11384-11399*
Brunstrom, A., see Caso, G., *JIoT Sept. 1, 2021 13774-13788*
Buchanan, W.J., see Xu, H., *JIoT March 1, 2021 3915-3929*
Budhiraja, I., Kumar, N., and Tyagi, S., Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication; *JIoT March 1, 2021 3143-3156*
Buratti, C., see Marini, R., *JIoT Feb. 15, 2021 2670-2680*
Burg, A., see Afisiadis, O., *JIoT July 15, 2021 11581-11593*
Burnaev, E., see Smerdov, A., *JIoT Nov. 15, 2021 16680-16691*
Burnett, D.C., see Chang, T., *JIoT Feb. 1, 2021 1846-1858*
Burrello, A., Marchioni, A., Brunelli, D., Benatti, S., Mangia, M., and Benini, L., Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring; *JIoT March 15, 2021 4433-4447*
Busaileh, O., see Hawbani, A., *JIoT June 1, 2021 8976-8989*
Buschendorf, F., see Gao, J., *JIoT Jan. 15, 2021 951-961*
Bushnaq, O.M., Chaaban, A., and Al-Naffouri, T.Y., The Role of UAV-IoT Networks in Future Wildfire Detection; *JIoT Dec. 1, 2021 16984-16999*
Buyya, R., see Razian, M., *JIoT March 1, 2021 3665-3677*
Buyya, R., see Ali, B., *JIoT March 1, 2021 3822-3830*
Buyya, R., see Fortino, G., *JIoT July 1, 2021 10220-10221*

C

Cai, C., see Jin, R., *JIoT July 1, 2021 10755-10765*
Cai, F., see Xu, L., *JIoT Sept. 1, 2021 13355-13366*
Cai, H., see Korany, B., *JIoT April 15, 2021 6963-6974*
Cai, H., Zhang, Y., Xiao, H., Zhang, J., Hu, B., and Hu, X., An Adaptive Neuro-feedback Method for Attention Regulation Based on the Internet of Things; *JIoT Nov. 1, 2021 15829-15838*
Cai, J., see Cai, X., *JIoT June 15, 2021 9645-9653*
Cai, J., see Li, X., *JIoT Nov. 15, 2021 16598-16612*
Cai, L., see Zhao, C., *JIoT Jan. 1, 2021 262-277*
Cai, L., Zeng, H., Zhu, J., Cao, J., Wang, Y., and Ma, K., Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition; *JIoT Feb. 15, 2021 3014-3026*
Cai, L., see Cui, W., *JIoT Nov. 15, 2021 16705-16717*
Cai, L.X., see Liu, Y., *JIoT Jan. 1, 2021 112-128*
Cai, L.X., see Chen, Z., *JIoT Nov. 15, 2021 16279-16289*
Cai, M., and Liao, W., High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables; *JIoT Jan. 1, 2021 297-308*
Cai, S., and Lau, V.K.N., RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks; *JIoT July 15, 2021 11177-11192*
Cai, S., see Tang, M., *JIoT Oct. 1, 2021 14638-14657*
Cai, W., see Fan, S., *JIoT Feb. 15, 2021 2252-2264*
Cai, X., Geng, S., Wu, D., Cai, J., and Chen, J., A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things; *JIoT June 15, 2021 9645-9653*
Cai, X., see Yuan, Y., *JIoT Oct. 15, 2021 15292-15302*
Cai, Y., Zhang, H., and Fang, Y., A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks; *JIoT Jan. 1, 2021 647-656*
Cai, Y., see Sun, X., *JIoT Jan. 1, 2021 528-540*
Cai, Y., see Meng, W., *JIoT Nov. 1, 2021 16014-16022*
Cai, Y., see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
Cai, Z., Zhou, Y., Qi, Y., Zhuang, W., and Deng, L., A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System; *JIoT Jan. 1, 2021 418-427*
Cai, Z., see Pang, J., *JIoT March 1, 2021 3088-3098*
Cai, Z., see Li, K., *JIoT April 15, 2021 6904-6915*
Cai, Z., and Shi, T., Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System; *JIoT Aug. 15, 2021 12679-12693*
Cai, Z., see Chang, Z., *JIoT Sept. 15, 2021 13849-13875*
Cai, Z., see Yu, J., *JIoT Nov. 15, 2021 16498-16509*
Cai, Z., see Wu, H., *JIoT Dec. 1, 2021 16972-16983*
Calero, J.M.A., see Segura-Garcia, J., *JIoT Aug. 1, 2021 12467-12475*
Campelo, D.R., see Pinheiro, A.J., *JIoT March 1, 2021 3930-3938*
Campelo, D.R., see Freitas de Araujo-Filho, P., *JIoT April 15, 2021 6247-6256*
Camtepe, S., see Khan, M.N., *JIoT March 15, 2021 4132-4156*
Cancelleri, J., see Reising, D., *JIoT May 15, 2021 8356-8371*
Canete, A., Amor, M., and Fuentes, L., Energy-Efficient Deployment of IoT Applications in Edge-Based Infrastructures: A Software Product Line Approach; *JIoT Nov. 15, 2021 16427-16439*
Cao, B., Gu, Y., Lv, Z., Yang, S., Zhao, J., and Li, Y., RFID Reader Anticollision Based on Distributed Parallel Particle Swarm Optimization; *JIoT March 1, 2021 3099-3107*
Cao, C., see Cheng, J., *JIoT May 1, 2021 7521-7530*
Cao, C., see Zhou, W., *JIoT July 15, 2021 11621-11639*
Cao, J., see Yu, Y., *JIoT Feb. 1, 2021 1740-1748*
Cao, J., see Cai, L., *JIoT Feb. 15, 2021 3014-3026*
Cao, J., Feng, W., Ge, N., and Lu, J., Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services; *JIoT March 1, 2021 3758-3773*
Cao, J., see Sahni, Y., *JIoT March 15, 2021 4893-4905*
Cao, J., see Yang, L., *JIoT July 15, 2021 11290-11304*
Cao, J., see Wang, Y., *JIoT Sept. 1, 2021 13664-13676*
Cao, J., see Li, G., *JIoT Nov. 15, 2021 16440-16451*
Cao, K., see Tian, J., *JIoT Jan. 15, 2021 1001-1015*
Cao, K., see Liu, Z., *JIoT April 1, 2021 5386-5407*
Cao, K., see Guo, D., *JIoT Aug. 1, 2021 12137-12149*
Cao, M., see Ding, Y., *JIoT Feb. 1, 2021 1504-1518*
Cao, M., see Sun, J., *JIoT June 15, 2021 10034-10046*
Cao, M., see Ding, L., *JIoT Aug. 1, 2021 12150-12162*
Cao, N., see Zhu, D., *JIoT March 1, 2021 3201-3210*
Cao, Q., see Qiu, T., *JIoT June 15, 2021 9473-9483*
Cao, T., see Zhou, Y., *JIoT May 15, 2021 8173-8190*
Cao, W., see Zhong, H., *JIoT Dec. 15, 2021 17734-17746*
Cao, X., see Zhang, T., *JIoT Feb. 15, 2021 2751-2761*
Cao, X., Yang, P., Lyu, F., Han, J., Li, Y., Guo, D., and Shen, X., Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing; *JIoT March 15, 2021 4526-4539*
Cao, X., see Zheng, D., *JIoT May 1, 2021 7140-7151*
Cao, X., see Mo, L., *JIoT May 15, 2021 8246-8258*
Cao, X., see Yang, B., *JIoT June 15, 2021 9878-9893*
Cao, X., see Yang, P., *JIoT Sept. 15, 2021 14258-14275*
Cao, X., Yang, B., Zhang, H., Huang, C., Yuen, C., and Han, Z., Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization; *JIoT Sept. 15, 2021 14171-14186*
Cao, X., see Li, B., *JIoT Oct. 15, 2021 15303-15316*
Cao, Y., Chen, C., St-Onge, D., and Beltrame, G., Distributed TDMA for Mobile UWB Network Localization; *JIoT Sept. 1, 2021 13449-13464*
Cao, Y., see Shi, W., *JIoT Oct. 1, 2021 14572-14588*
Cao, Y., Zhou, Z., Zhu, C., Duan, P., Chen, X., and Li, J., A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition; *JIoT Dec. 15, 2021 17449-17459*
Cao, Z., see Liu, M., *JIoT April 1, 2021 5585-5598*
Cao, Z., see Chen, L., *JIoT May 15, 2021 7863-7873*
Cao, Z., see Min, R., *JIoT Oct. 15, 2021 15396-15406*
Capuzzo, M., see Michelinakis, F., *JIoT Jan. 15, 2021 1224-1242*
Carrillo, D., see Guo, J., *JIoT July 15, 2021 11078-11087*

- Caruso, A.**, Chessa, S., Escobar, S., Barba, J., and Lopez, J.C., Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study; *JIoT Nov. 15, 2021 16692-16704*
- Cascales, J.P.**, Greenfield, D.A., Roussakis, E., Withhauer, L., Li, X., Goss, A., and Evans, C.L., Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation; *JIoT Dec. 15, 2021 17557-17567*
- Caso, G.**, Kousias, K., Alay, O., Brunstrom, A., and Neri, M., NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements; *JIoT July 15, 2021 11384-11399*
- Caso, G.**, Alay, O., De Nardis, L., Brunstrom, A., Neri, M., and Di Benedetto, M., Empirical Models for NB-IoT Path Loss in an Urban Scenario; *JIoT Sept. 1, 2021 13774-13788*
- Casola, V.**, De Benedictis, A., Di Martino, S., Mazzocca, N., and Starace, L.L.L., Security-Aware Deployment Optimization of Cloud-Edge Systems in Industrial IoT; *JIoT Aug. 15, 2021 12724-12733*
- Castellano, G.**, see Hu, X., *JIoT Nov. 1, 2021 15649-15651*
- Castiglione, A.**, see D'Angelo, G., *JIoT Aug. 15, 2021 12518-12527*
- Castiglione, A.**, Umer, M., Sadiq, S., Obaidat, M.S., and Vijayakumar, P., The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic; *JIoT Nov. 1, 2021 16072-16082*
- Castillo, J.**, see Chen, Q., *JIoT Sept. 15, 2021 14355-14371*
- Catarinucci, L.**, see Solic, P., *JIoT March 15, 2021 4830-4840*
- Cavdar, C.**, see Tavana, M., *JIoT Aug. 1, 2021 11834-11846*
- Cengiz, K.**, Comprehensive Analysis on Least-Squares Lateration for Indoor Positioning Systems; *JIoT Feb. 15, 2021 2842-2856*
- Centk, M.**, see Yildiz, H., *JIoT April 1, 2021 5682-5696*
- Cerroni, W.**, see Marini, R., *JIoT Feb. 15, 2021 2670-2680*
- Cespedes, S.**, see Yu, Q., *JIoT Nov. 15, 2021 16191-16194*
- Chaaban, A.**, see Bushnaq, O.M., *JIoT Dec. 1, 2021 16984-16999*
- Chae, C.**, see Chen, X., *JIoT Nov. 1, 2021 15939-15952*
- Chae, C.**, see Tang, Y., *JIoT Nov. 1, 2021 16023-16034*
- Chae, S.H.**, see Jeong, C., *JIoT May 15, 2021 8044-8055*
- Chai, H.**, see Gao, R., *JIoT Aug. 15, 2021 12955-12967*
- Chai, Z.**, Fang, S., and Li, Y., An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service; *JIoT Jan. 15, 2021 1109-1122*
- Chakraborty, R.K.**, see Abdel-Basset, M., *JIoT March 15, 2021 4969-4979*
- Chakraborty, R.K.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12251-12265*
- Chakraborty, R.K.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12422-12435*
- Chakraborty, B.**, Divakaran, D.M., Nevat, I., Peters, G.W., and Gurusamy, M., Cost-Aware Feature Selection for IoT Device Classification; *JIoT July 15, 2021 11052-11064*
- Chakraborty, N.**, Li, J., Mondal, S., Luo, C., Wang, H., Alazab, M., Chen, F., and Pan, Y., On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things; *JIoT March 1, 2021 3255-3267*
- Chakraborty, P.**, Cruz, J., and Bhunia, S., MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things; *JIoT May 1, 2021 7303-7315*
- Chakraborty, S.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Chambers, J.A.**, see Li, X., *JIoT Oct. 1, 2021 14959-14970*
- Chamola, V.**, see Hassija, V., *JIoT Feb. 15, 2021 2409-2418*
- Chamola, V.**, see Chhikara, P., *JIoT March 15, 2021 4448-4460*
- Chamola, V.**, see Hassija, V., *JIoT April 15, 2021 6222-6246*
- Chamola, V.**, see Grover, H., *JIoT Oct. 1, 2021 14787-14796*
- Chamola, V.**, Hassija, V., Gupta, S., Goyal, A., Guizani, M., and Sikdar, B., Disaster and Pandemic Management Using Machine Learning: A Survey; *JIoT Nov. 1, 2021 16047-16071*
- Chan, S.**, see Yang, G., *JIoT Feb. 15, 2021 2483-2493*
- Chanak, P.**, see Singh, R., *JIoT April 15, 2021 6214-6221*
- Chanak, P.**, see Kaur, G., *JIoT July 15, 2021 11440-11449*
- Chandrakasan, A.P.**, see Maji, S., *JIoT Aug. 1, 2021 12079-12092*
- Chang, H.**, Wang, C., Liu, Y., Huang, J., Sun, J., Zhang, W., and Gao, X., A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes; *JIoT June 15, 2021 9865-9877*
- Chang, S.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Chang, S.**, see Liu, W., *JIoT March 15, 2021 4681-4696*
- Chang, T.**, Watteyne, T., Maksimovic, F., Wheeler, B., Burnett, D.C., Yuan, T., Vilajosana, X., and Pister, K.S.J., QuickCal: Assisted Calibration for Crystal-Free Micromotes; *JIoT Feb. 1, 2021 1846-1858*
- Chang, V.**, see Tai, Y., *JIoT Nov. 1, 2021 15965-15976*
- Chang, X.**, Dai, J., Zhang, Z., Zhu, K., and Xing, G., RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags; *JIoT Aug. 15, 2021 12892-12901*
- Chang, Z.**, Liu, S., Xiong, X., Cai, Z., and Tu, G., A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things; *JIoT Sept. 15, 2021 13849-13875*
- Chao, C.**, see Syu, J., *JIoT July 1, 2021 10347-10355*
- Chao, H.**, see Liu, X., *JIoT July 15, 2021 11041-11051*
- Charyyev, B.**, and Gunes, M.H., Locality-Sensitive IoT Network Traffic Fingerprinting for Device Identification; *JIoT Feb. 1, 2021 1272-1281*
- Chassot, C.**, see Ouedraogo, C.A., *JIoT March 1, 2021 3885-3903*
- Chaterji, S.**, see Jiang, X., *JIoT Jan. 15, 2021 901-915*
- Chatterjee, B.**, Seo, D., Chakraborty, S., Avlani, S., Jiang, X., Zhang, H., Abdallah, M., Raghunathan, N., Mousoulis, C., Shakouri, A., Bagchi, S., Peroulis, D., and Sen, S., Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed; *JIoT April 15, 2021 6800-6814*
- Chattopadhyay, A.**, see Gupta, N., *JIoT May 1, 2021 7182-7191*
- Chatzinotas, S.**, see Nguyen, V., *JIoT March 1, 2021 3394-3409*
- Chatzinotas, S.**, see Zhang, X., *JIoT April 15, 2021 7009-7023*
- Chatzinotas, S.**, see Chougrani, H., *JIoT May 1, 2021 7437-7449*
- Chatzinotas, S.**, see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
- Chauhan, A.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Chavez, G.**, see Chen, Q., *JIoT Sept. 15, 2021 14355-14371*
- Chawla, N.**, Singh, A., Kumar, H., Kar, M., and Mukhopadhyay, S., Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach; *JIoT Nov. 15, 2021 16379-16394*
- Che, Y.**, see Wang, S., *JIoT Jan. 1, 2021 572-584*
- Chen, B.**, see Zhang, J., *JIoT March 1, 2021 3310-3322*
- Chen, B.**, see Zhu, Z., *JIoT March 1, 2021 3831-3850*
- Chen, B.**, see Zhao, Y., *JIoT April 1, 2021 5619-5631*
- Chen, B.**, Qiao, S., Zhao, J., Liu, D., Shi, X., Lyu, M., Chen, H., Lu, H., and Zhai, Y., A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture; *JIoT July 1, 2021 10248-10263*
- Chen, B.**, Xiang, T., Ma, M., He, D., and Liao, X., CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things; *JIoT Oct. 1, 2021 15010-15023*
- Chen, C.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Chen, C.**, see Wang, K., *JIoT April 1, 2021 5332-5339*
- Chen, C.**, Li, J., Balasubramaniam, V., Wu, Y., Zhang, Y., and Wan, S., Contention Resolution in Wi-Fi 6-Enabled Internet of Things Based on Deep Learning; *JIoT April 1, 2021 5309-5320*
- Chen, C.**, see Bai, W., *JIoT April 15, 2021 6865-6877*
- Chen, C.**, Xiang, C., Guo, S., Wang, Z., and Guo, B., *ToiletBuilder*: A PU-Learning-Based Model for Selecting New Public Toilet Locations; *JIoT May 1, 2021 7531-7545*
- Chen, C.**, see Chen, C., *JIoT May 1, 2021 7531-7545*
- Chen, C.**, see Wang, X., *JIoT May 15, 2021 8464-8473*
- Chen, C.**, see Fu, S., *JIoT June 15, 2021 10209-10219*
- Chen, C.**, see Yu, Z., *JIoT Aug. 15, 2021 12934-12946*
- Chen, C.**, see Cao, Y., *JIoT Sept. 1, 2021 13449-13464*
- Chen, C.S.**, see Mishra, S., *JIoT July 15, 2021 11305-11319*
- Chen, D.**, Qi, Q., Zhuang, Z., Wang, J., Liao, J., and Han, Z., Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control; *JIoT Jan. 15, 2021 813-828*
- Chen, D.**, see Ding, Y., *JIoT Feb. 1, 2021 1504-1518*
- Chen, D.**, see Lv, Z., *JIoT April 15, 2021 6273-6281*
- Chen, D.**, see Sun, J., *JIoT June 15, 2021 10034-10046*
- Chen, D.**, Hong, C.S., Wang, L., Zha, Y., Zhang, Y., Liu, X., and Han, Z., Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks; *JIoT July 15, 2021 11415-11426*

- Chen, D.**, Yongchareon, S., Lai, E.M., Yu, J., and Sheng, Q.Z., Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition; *JIoT July 15, 2021 11193-11207*
- Chen, D.**, Chen, N., Zhang, X., Ma, H., and Chen, Z., Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT; *JIoT Sept. 1, 2021 13367-13383*
- Chen, D.**, Wang, D., Zhu, Y., and Han, Z., Digital Twin for Federated Analytics Using a Bayesian Approach; *JIoT Nov. 15, 2021 16301-16312*
- Chen, F.**, see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
- Chen, F.**, see Chen, W., *JIoT Aug. 1, 2021 12398-12409*
- Chen, F.**, see Ge, X., *JIoT Aug. 15, 2021 12902-12918*
- Chen, G.**, see You, W., *JIoT Jan. 15, 2021 695-707*
- Chen, G.**, see Xu, P., *JIoT May 15, 2021 8145-8158*
- Chen, G.**, see Huang, C., *JIoT June 15, 2021 10198-10208*
- Chen, G.**, see Li, X., *JIoT Oct. 1, 2021 14959-14970*
- Chen, H.**, see Huang, C., *JIoT March 15, 2021 4291-4304*
- Chen, H.**, Ye, Y., Xiao, M., Skoglund, M., and Poor, H.V., Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing; *JIoT April 1, 2021 5360-5373*
- Chen, H.**, see Fang, D., *JIoT May 15, 2021 8557-8569*
- Chen, H.**, see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Chen, H.**, see Chen, B., *JIoT July 1, 2021 10248-10263*
- Chen, H.**, see Ning, W., *JIoT Aug. 15, 2021 12550-12558*
- Chen, H.**, see Wang, C., *JIoT Aug. 15, 2021 13024-13038*
- Chen, H.**, see Li, B., *JIoT Oct. 1, 2021 14485-14500*
- Chen, H.**, see Yu, H., *JIoT Nov. 1, 2021 16096-16107*
- Chen, H.**, see Wang, K., *JIoT Nov. 15, 2021 16666-16679*
- Chen, H.**, see Yu, J., *JIoT Nov. 15, 2021 16498-16509*
- Chen, H.**, see Wu, H., *JIoT Dec. 1, 2021 16972-16983*
- Chen, H.**, see Feng, J., *JIoT Dec. 1, 2021 16801-16813*
- Chen, J.**, see Sun, Y., *JIoT Jan. 15, 2021 1197-1210*
- Chen, J.**, see Sun, Y., *JIoT Jan. 15, 2021 1071-1081*
- Chen, J.**, see Ren, Q., *JIoT Feb. 1, 2021 1453-1466*
- Chen, J.**, see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Chen, J.**, see An, Y., *JIoT March 1, 2021 3554-3566*
- Chen, J.**, see Ibrar, M., *JIoT March 1, 2021 3130-3142*
- Chen, J.**, see Huang, Y., *JIoT May 1, 2021 7288-7302*
- Chen, J.**, see Cai, X., *JIoT June 15, 2021 9645-9653*
- Chen, J.**, see Luo, P., *JIoT July 15, 2021 11476-11486*
- Chen, J.**, see Cui, Z., *JIoT Aug. 15, 2021 12540-12549*
- Chen, J.**, see Zhang, M., *JIoT Sept. 1, 2021 13608-13623*
- Chen, J.**, see Yang, P., *JIoT Sept. 15, 2021 14258-14275*
- Chen, J.**, see Fang, T., *JIoT Sept. 15, 2021 14418-14430*
- Chen, J.**, Li, S., Xing, J., Wang, J., and Fu, S., Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things; *JIoT Oct. 15, 2021 15191-15204*
- Chen, J.**, see Zhang, Y., *JIoT Oct. 15, 2021 15500-15511*
- Chen, J.**, see Yu, Q., *JIoT Nov. 15, 2021 16191-16194*
- Chen, J.**, Xing, H., Xiao, Z., Xu, L., and Tao, T., A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC; *JIoT Dec. 15, 2021 17508-17524*
- Chen, K.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Chen, K.**, see Jiang, H., *JIoT June 1, 2021 9450-9459*
- Chen, K.**, Wang, Y., Zhao, J., Wang, X., and Fei, Z., URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks; *JIoT June 15, 2021 10103-10116*
- Chen, K.**, see Yang, N., *JIoT Aug. 1, 2021 12119-12136*
- Chen, L.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Chen, L.**, see Farha, F., *JIoT April 1, 2021 5904-5913*
- Chen, L.**, see Wan, G.C., *JIoT May 1, 2021 7476-7484*
- Chen, L.**, Zhou, J., Chen, Y., Cao, Z., Dong, X., and Choo, K.R., PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks; *JIoT May 15, 2021 7863-7873*
- Chen, L.**, see Rezaeibagha, F., *JIoT May 15, 2021 8056-8063*
- Chen, L.**, see Yu, Y., *JIoT June 1, 2021 9359-9372*
- Chen, L.**, see Tang, X., *JIoT June 15, 2021 9511-9522*
- Chen, L.**, see Xia, D., *JIoT July 15, 2021 11666-11677*
- Chen, L.**, Xu, Y., Lu, Z., Wu, J., Gai, K., Hung, P.C.K., and Qiu, M., IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning; *JIoT Aug. 15, 2021 12610-12622*
- Chen, L.**, see Han, C., *JIoT Sept. 1, 2021 13555-13566*
- Chen, L.**, see Dhelim, S., *JIoT Dec. 15, 2021 17817-17828*
- Chen, M.**, see Wang, S., *JIoT Feb. 1, 2021 1358-1372*
- Chen, M.**, see Miao, Y., *JIoT Feb. 15, 2021 2289-2299*
- Chen, M.**, see Fang, D., *JIoT June 15, 2021 9654-9663*
- Chen, M.**, see Fortino, G., *JIoT July 1, 2021 10220-10221*
- Chen, M.**, and Lee, T., Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps; *JIoT Sept. 15, 2021 13939-13949*
- Chen, M.**, see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Chen, M.**, Hwang, K., Wang, H., Leung, V.C.M., and Humar, I., Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care; *JIoT Dec. 1, 2021 16718-16722*
- Chen, M.**, see Su, Y., *JIoT Dec. 1, 2021 16921-16932*
- Chen, M.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Chen, N.**, see Guo, H., *JIoT March 15, 2021 4329-4338*
- Chen, N.**, and Okada, M., Toward 6G Internet of Things and the Convergence With RoF System; *JIoT June 1, 2021 8719-8733*
- Chen, N.**, see Chen, D., *JIoT Sept. 1, 2021 13367-13383*
- Chen, Q.**, see Liu, Y., *JIoT Jan. 1, 2021 112-128*
- Chen, Q.**, see Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Chen, Q.**, see Dai, C., *JIoT March 15, 2021 4855-4867*
- Chen, Q.**, see Yao, B., *JIoT May 15, 2021 8514-8529*
- Chen, Q.**, see Huang, X., *JIoT July 1, 2021 10911-10921*
- Chen, Q.**, see Guo, J., *JIoT July 15, 2021 11078-11087*
- Chen, Q.**, Romanowich, P., Castillo, J., Roy, K.C., Chavez, G., and Xu, S., ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks; *JIoT Sept. 15, 2021 14355-14371*
- Chen, Q.**, see Chen, Z., *JIoT Nov. 15, 2021 16279-16289*
- Chen, R.**, see Zhu, Y., *JIoT Feb. 1, 2021 1544-1556*
- Chen, R.**, Yang, B., and Zhang, W., Distributed and Collaborative Localization for Swarming UAVs; *JIoT March 15, 2021 5062-5074*
- Chen, R.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Chen, R.**, see Yu, Y., *JIoT June 1, 2021 9359-9372*
- Chen, R.**, see Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Chen, S.**, see Cui, L., *JIoT Feb. 15, 2021 2395-2408*
- Chen, S.**, Tao, Y., Yu, D., Li, F., Gong, B., and Cheng, X., Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT; *JIoT March 1, 2021 3276-3286*
- Chen, S.**, see Zhang, W., *JIoT April 1, 2021 5926-5937*
- Chen, S.**, see Wang, L., *JIoT May 15, 2021 8097-8106*
- Chen, S.**, see Wen, P., *JIoT June 1, 2021 9045-9058*
- Chen, S.**, see Xu, G., *JIoT June 15, 2021 9559-9567*
- Chen, S.**, see Rao, W., *JIoT July 1, 2021 10608-10618*
- Chen, S.**, see Liu, Y., *JIoT Aug. 1, 2021 12231-12241*
- Chen, S.**, see Qiu, G., *JIoT Nov. 1, 2021 16165-16180*
- Chen, T.**, see Li, X., *JIoT March 15, 2021 4063-4080*
- Chen, T.**, Zhang, L., Choo, K.R., Zhang, R., and Meng, X., Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems; *JIoT July 1, 2021 10766-10778*
- Chen, W.**, Zhao, S., Zhang, R., Chen, Y., and Yang, L., UAV-Assisted Data Collection With Nonorthogonal Multiple Access; *JIoT Jan. 1, 2021 501-511*
- Chen, W.**, see Zhang, W., *JIoT Jan. 15, 2021 750-765*
- Chen, W.**, see Li, Z., *JIoT Feb. 15, 2021 2364-2378*
- Chen, W.**, Guan, Q., Yu, H., Ji, F., and Chen, F., Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks; *JIoT Aug. 1, 2021 12398-12409*
- Chen, W.**, Lyu, F., Wu, F., Yang, P., and Ren, J., FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN; *JIoT Nov. 15, 2021 16510-16521*
- Chen, W.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Chen, W.**, see Zhao, B., *JIoT Dec. 15, 2021 17584-17595*
- Chen, W.**, see Ma, C., *JIoT Dec. 15, 2021 17308-17319*
- Chen, X.**, see Liu, Y., *JIoT Jan. 1, 2021 112-128*

- Chen, X.**, see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- Chen, X.**, see Chu, J., *JIoT Feb. 1, 2021 1959-1970*
- Chen, X.**, see Xu, D., *JIoT Feb. 1, 2021 1519-1532*
- Chen, X.**, see Yu, S., *JIoT Feb. 15, 2021 2238-2251*
- Chen, X.**, see Qi, S., *JIoT Feb. 15, 2021 2886-2899*
- Chen, X.**, see Yin, R., *JIoT April 15, 2021 6720-6732*
- Chen, X.**, see Li, C., *JIoT May 1, 2021 7192-7202*
- Chen, X.**, Xie, L., Wu, J., and Tian, Q., Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts; *JIoT May 1, 2021 7466-7475*
- Chen, X.**, see Cui, J., *JIoT May 15, 2021 7925-7937*
- Chen, X.**, see Chu, J., *JIoT June 1, 2021 9072-9083*
- Chen, X.**, see Tang, X., *JIoT June 15, 2021 9511-9522*
- Chen, X.**, and Liu, G., Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks; *JIoT July 1, 2021 10843-10856*
- Chen, X.**, Feng, Z., Wei, Z., Zhang, P., and Yuan, X., Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication; *JIoT Aug. 1, 2021 12093-12105*
- Chen, X.**, see Li, R., *JIoT Oct. 1, 2021 14471-14484*
- Chen, X.**, Leng, S., He, J., and Zhou, L., Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving; *JIoT Oct. 15, 2021 15180-15190*
- Chen, X.**, Wen, M., Chae, C., Yang, L., Ji, F., and Igorevich, K.K., Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things; *JIoT Nov. 1, 2021 15939-15952*
- Chen, X.**, see Wang, Q., *JIoT Nov. 1, 2021 16153-16164*
- Chen, X.**, see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Chen, X.**, see Cao, Y., *JIoT Dec. 15, 2021 17449-17459*
- Chen, Y.**, see Chen, W., *JIoT Jan. 1, 2021 501-511*
- Chen, Y.**, Liu, Y., Zeng, M., Saleem, U., Lu, Z., Wen, X., Jin, D., Han, Z., Jiang, T., and Li, Y., Reinforcement Learning Meets Wireless Networks: A Layering Perspective; *JIoT Jan. 1, 2021 85-111*
- Chen, Y.**, see Yin, X., *JIoT Feb. 1, 2021 1599-1610*
- Chen, Y.**, Deng, H., Zhang, D., and Hu, Y., SpeedNet: Indoor Speed Estimation With Radio Signals; *JIoT Feb. 15, 2021 2762-2774*
- Chen, Y.**, see Zhang, D., *JIoT March 1, 2021 3904-3914*
- Chen, Y.**, Qiu, W., Ou, R., and Huang, C., A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology; *JIoT April 1, 2021 6089-6100*
- Chen, Y.**, see Chen, L., *JIoT May 15, 2021 7863-7873*
- Chen, Y.**, see Li, L., *JIoT May 15, 2021 8078-8096*
- Chen, Y.**, see Wei, T., *JIoT June 1, 2021 8910-8934*
- Chen, Y.**, see Xing, G., *JIoT June 1, 2021 9005-9013*
- Chen, Y.**, see Zhang, M., *JIoT July 1, 2021 10830-10842*
- Chen, Y.**, Martinez-Ortega, J., Lopez, L., Yu, H., and Yang, Z., A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid; *JIoT Aug. 1, 2021 12360-12374*
- Chen, Y.**, see Luo, J., *JIoT Sept. 1, 2021 13126-13144*
- Chen, Y.**, see Fang, X., *JIoT Sept. 15, 2021 14399-14417*
- Chen, Y.**, see Li, C., *JIoT Oct. 1, 2021 14543-14558*
- Chen, Y.**, see Gao, Y., *JIoT Nov. 1, 2021 15785-15795*
- Chen, Y.**, see Nikouei, S.Y., *JIoT Nov. 1, 2021 16181-16190*
- Chen, Z.**, see Bao, Z., *JIoT Feb. 15, 2021 2826-2841*
- Chen, Z.**, see Cui, L., *JIoT Feb. 15, 2021 2395-2408*
- Chen, Z.**, see Guo, L., *JIoT March 1, 2021 3851-3863*
- Chen, Z.**, Fu, A., Zhang, Y., Liu, Z., Zeng, F., and Deng, R.H., Secure Collaborative Deep Learning Against GAN Attacks in the Internet of Things; *JIoT April 1, 2021 5839-5849*
- Chen, Z.**, see Yang, S., *JIoT June 15, 2021 9580-9593*
- Chen, Z.**, see Wu, L., *JIoT July 15, 2021 11357-11367*
- Chen, Z.**, see Hu, L., *JIoT July 15, 2021 11329-11344*
- Chen, Z.**, see Chen, D., *JIoT Sept. 1, 2021 13367-13383*
- Chen, Z.**, see Mo, Y., *JIoT Sept. 15, 2021 14039-14050*
- Chen, Z.**, Zhang, R., Liu, Y., Cai, L.X., and Chen, Q., Performance Study of Cybertwin-Assisted Random Access NOMA; *JIoT Nov. 15, 2021 16279-16289*
- Chen, Z.D.**, see Zhao, H., *JIoT May 15, 2021 8064-8077*
- Cheng, J.**, see Zhang, J., *JIoT March 15, 2021 4628-4641*
- Cheng, J.**, see Zhang, J., *JIoT May 1, 2021 7610-7624*
- Cheng, J.**, Cao, C., Zhou, M., Liu, C., Gao, S., and Jiang, C., A Dynamic Evolution Mechanism for IoV Community in an Urban Scene; *JIoT May 1, 2021 7521-7530*
- Cheng, J.**, see Ma, J., *JIoT July 1, 2021 10873-10883*
- Cheng, J.**, see Lin, Z., *JIoT July 15, 2021 11123-11134*
- Cheng, K.**, see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Cheng, L.**, see Liu, D., *JIoT Feb. 15, 2021 2959-2975*
- Cheng, L.**, see Luo, Y., *JIoT Feb. 15, 2021 2736-2750*
- Cheng, M.**, see Li, Q., *JIoT Dec. 1, 2021 16946-16962*
- Cheng, N.**, see Qin, M., *JIoT Feb. 1, 2021 1896-1907*
- Cheng, N.**, see Zhao, Y., *JIoT March 15, 2021 4841-4854*
- Cheng, N.**, see Liu, G., *JIoT April 15, 2021 6578-6590*
- Cheng, N.**, see Lyu, L., *JIoT May 15, 2021 7889-7901*
- Cheng, N.**, see Shi, W., *JIoT June 15, 2021 9800-9813*
- Cheng, P.**, see Zhao, C., *JIoT Jan. 1, 2021 262-277*
- Cheng, P.**, see Zhang, Z., *JIoT April 15, 2021 6608-6623*
- Cheng, Q.**, see Li, X., *JIoT March 15, 2021 4063-4080*
- Cheng, Q.**, see Wei, F., *JIoT April 1, 2021 5599-5606*
- Cheng, Q.**, see Sun, R., *JIoT April 15, 2021 7065-7078*
- Cheng, W.**, see Zhao, Y., *JIoT June 15, 2021 10018-10033*
- Cheng, X.**, see You, W., *JIoT Jan. 15, 2021 695-707*
- Cheng, X.**, see Sheng, H., *JIoT Feb. 15, 2021 2193-2207*
- Cheng, X.**, see Zhang, J., *JIoT March 1, 2021 3310-3322*
- Cheng, X.**, see Chen, S., *JIoT March 1, 2021 3276-3286*
- Cheng, X.**, see Qi, H., *JIoT March 15, 2021 4472-4484*
- Cheng, X.**, Duan, D., Yang, L., and Zheng, N., Societal Intelligence for Safer and Smarter Transportation; *JIoT June 1, 2021 9109-9121*
- Cheng, X.**, see Bao, Y., *JIoT June 1, 2021 9189-9205*
- Cheng, X.**, see Bai, L., *JIoT Dec. 15, 2021 17622-17638*
- Cheng, Y.**, Xu, Y., Zhong, H., and Liu, Y., Leveraging Semisupervised Hierarchical Stacking Temporal Convolutional Network for Anomaly Detection in IoT Communication; *JIoT Jan. 1, 2021 144-155*
- Cheng, Y.**, see Zhang, J., *JIoT Feb. 15, 2021 3027-3041*
- Cheng, Y.**, see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Cherian, S.P.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Cheriet, M.**, see Shi, Z., *JIoT March 1, 2021 3476-3489*
- Cherkaoui, S.**, see Abouaomar, A., *JIoT July 15, 2021 11088-11099*
- Cherkaoui, S.**, see Mlika, Z., *JIoT Sept. 1, 2021 13624-13639*
- Chessa, S.**, see Caruso, A., *JIoT Nov. 15, 2021 16692-16704*
- Chhikara, P.**, Tekchandani, R., Kumar, N., Chamola, V., and Guizani, M., DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment; *JIoT March 15, 2021 4448-4460*
- Chhikara, P.**, Singh, P., Tekchandani, R., Kumar, N., and Guizani, M., Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications; *JIoT April 15, 2021 6949-6962*
- Chhikara, P.**, Tekchandani, R., Kumar, N., and Obaidat, M.S., An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices; *JIoT Aug. 15, 2021 12597-12609*
- Chhikara, P.**, Tekchandani, R., Kumar, N., Guizani, M., and Hassan, M.M., Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment; *JIoT Oct. 15, 2021 15456-15467*
- Chi, K.**, see Zhu, Y., *JIoT March 1, 2021 3689-3704*
- Chiang, K.**, see Sun, R., *JIoT April 15, 2021 7065-7078*
- Chiang, Y.**, see Zhu, C., *JIoT May 1, 2021 7625-7637*
- Chiang, Y.**, Lin, H., and Ji, Y., Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things; *JIoT Oct. 1, 2021 14435-14446*
- Chiasserini, C.F.**, see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- Chin, K.**, see Song, X., *JIoT Aug. 1, 2021 12329-12338*
- Chin, K.**, see Liu, Y., *JIoT Aug. 1, 2021 12266-12278*
- Chin, K.**, see He, T., *JIoT Oct. 15, 2021 15486-15499*
- Chinaei, M.H.**, Habibi Gharakheili, H., and Sivaraman, V., Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract; *JIoT June 15, 2021 10117-10130*

- Chiu, C.**, see Shen, S., *JIoT April 1, 2021 5850-5865*
- Chiu, W.**, see Meng, W., *JIoT Nov. 1, 2021 16014-16022*
- Cho, H.**, Wu, H., Lai, C., Shih, T.K., and Tseng, F., Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture; *JIoT Feb. 15, 2021 2379-2394*
- Cho, S.**, see Lee, C., *JIoT May 15, 2021 8291-8303*
- Cho, S.**, see Tuong, V.D., *JIoT Sept. 1, 2021 13196-13208*
- Cho, E.**, see Nguyen, T.A., *JIoT Nov. 1, 2021 15704-15748*
- Choi, H.**, see Lee, K., *JIoT Feb. 1, 2021 1467-1476*
- Choi, H.**, and Lee, K., Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks; *JIoT Feb. 1, 2021 1611-1622*
- Choi, H.**, Kim, H., and Zhu, Q., Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach; *JIoT April 15, 2021 6692-6708*
- Choi, H.**, and Lee, K., Wireless Energy Sharing for Maximizing Lifetime of Linear Multihop Communications; *JIoT Aug. 1, 2021 12189-12202*
- Choi, H.**, see Karimi, M., *JIoT Sept. 1, 2021 13328-13342*
- Choi, J.**, and Choi, Y., Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices; *JIoT Jan. 1, 2021 541-554*
- Choi, J.**, On Fast Retrieval for Two-Step Random Access in MTC; *JIoT Feb. 1, 2021 1428-1436*
- Choi, J.**, Kim, J., and Kim, K., People Counting Using IR-UWB Radar Sensor in a Wide Area; *JIoT April 1, 2021 5806-5821*
- Choi, J.**, Data-Aided Sensing for Gaussian Process Regression in IoT Systems; *JIoT May 1, 2021 7717-7726*
- Choi, J.**, and Lee, N., Generalized Differential Index Modulation for Pilot-Free Communications; *JIoT May 15, 2021 7973-7984*
- Choi, J.**, see Han, R., *JIoT Oct. 1, 2021 14447-14457*
- Choi, J.**, and Park, J., MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime; *JIoT Oct. 15, 2021 15512-15521*
- Choi, J.**, see Ding, J., *JIoT Oct. 15, 2021 15361-15371*
- Choi, J.K.**, see Lee, S., *JIoT April 1, 2021 5985-6001*
- Choi, J.K.**, see Kim, N., *JIoT May 15, 2021 8259-8278*
- Choi, S.**, see You, Y., *JIoT Feb. 15, 2021 2900-2909*
- Choi, W.**, see Seo, H., *JIoT Jan. 1, 2021 129-143*
- Choi, Y.**, see Choi, J., *JIoT Jan. 1, 2021 541-554*
- Chong, K.H.**, see Lau, B.P.L., *JIoT July 15, 2021 11503-11513*
- Choo, H.**, see Nguyen, T., *JIoT Jan. 15, 2021 766-777*
- Choo, H.**, see Dang, T., *JIoT Oct. 15, 2021 15468-15485*
- Choo, K.R.**, see Wang, J., *JIoT Jan. 1, 2021 458-473*
- Choo, K.R.**, see Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Choo, K.R.**, see Haddadpajouh, H., *JIoT March 15, 2021 4540-4547*
- Choo, K.R.**, see Chen, L., *JIoT May 15, 2021 7863-7873*
- Choo, K.R.**, see Fan, Y., *JIoT June 1, 2021 9268-9277*
- Choo, K.R.**, see Alkadi, O., *JIoT June 15, 2021 9463-9472*
- Choo, K.R.**, see Chen, T., *JIoT July 1, 2021 10766-10778*
- Choo, K.R.**, see Zeng, P., *JIoT July 1, 2021 10963-10972*
- Choo, K.R.**, see Peng, K., *JIoT Aug. 1, 2021 12004-12020*
- Choo, K.R.**, see Jahromi, A.N., *JIoT Sept. 1, 2021 13712-13722*
- Choo, K.R.**, see Li, J., *JIoT Sept. 1, 2021 13183-13195*
- Choo, K.R.**, see Peng, C., *JIoT Sept. 15, 2021 14287-14298*
- Choo, K.R.**, see Grover, H., *JIoT Oct. 1, 2021 14787-14796*
- Choo, K.R.**, see Zhang, L., *JIoT Dec. 1, 2021 17120-17130*
- Choudhury, N.**, Matam, R., Mukherjee, M., Lloret, J., and Kalaimannan, E., NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks; *JIoT Jan. 1, 2021 168-178*
- Chougrani, H.**, Kisseleff, S., and Chatzinotas, S., Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT; *JIoT May 1, 2021 7437-7449*
- Chowdhry, B.S.**, see Shah, A.A., *JIoT June 1, 2021 9397-9406*
- Chowdhury, K.R.**, see Li, K., *JIoT April 15, 2021 6637-6648*
- Chowdhury, K.R.**, see Garcia Sanchez, S., *JIoT June 15, 2021 9838-9854*
- Chowdhury, M.**, see Khan, S.M., *JIoT Aug. 15, 2021 13077-13094*
- Chowhan, B.**, see Ray, P.P., *JIoT July 1, 2021 10857-10872*
- Christiansen, H.L.**, see Malarski, K.M., *JIoT April 15, 2021 6746-6756*
- Christopoulos, G.**, see Li, J., *JIoT July 15, 2021 11150-11162*
- Chronopoulos, A.T.**, see Yang, W., *JIoT Aug. 15, 2021 12478-12480*
- Chronopoulos, A.T.**, see Xiao, H., *JIoT Sept. 15, 2021 13926-13938*
- Chu, J.**, Chen, X., Zhong, C., and Zhang, Z., Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things; *JIoT Feb. 1, 2021 1959-1970*
- Chu, J.**, and Chen, X., Robust Design for Integrated Satellite-Terrestrial Internet of Things; *JIoT June 1, 2021 9072-9083*
- Chu, L.**, see Pei, L., *JIoT June 1, 2021 9383-9396*
- Chu, L.**, Pei, L., and Qiu, R., Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data; *JIoT Dec. 1, 2021 16787-16800*
- Chu, X.**, see Shi, L., *JIoT July 1, 2021 10731-10744*
- Chu, Z.**, see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
- Chung, H.S.**, see Zhang, X., *JIoT July 1, 2021 10509-10517*
- Chung, J.**, see Yun, J., *JIoT Jan. 15, 2021 708-722*
- Chung, J.**, see Heo, S., *JIoT July 1, 2021 10678-10692*
- Chung, M.Y.**, see Mughal, D.M., *JIoT Sept. 1, 2021 13414-13424*
- Chung, W.**, see Shakil Sejan, M.A., *JIoT May 1, 2021 7214-7228*
- Ci, S.**, see Jogunola, O., *JIoT March 15, 2021 4211-4227*
- Ci, S.**, see Shen, S., *JIoT Nov. 15, 2021 16269-16278*
- Cionca, V.**, see Katona, R., *JIoT Jan. 15, 2021 916-926*
- Ciuonzo, D.**, Rossi, P.S., and Varshney, P.K., Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests; *JIoT June 1, 2021 9059-9071*
- Clancy, E.A.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Cobblah, C.N.A.**, see Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Coca, E.**, see Petrariu, A.L., *JIoT May 15, 2021 8423-8436*
- Coella, R.**, see Solic, P., *JIoT March 15, 2021 4830-4840*
- Coleri, S.**, see Koca, M., *JIoT Jan. 1, 2021 179-186*
- Cordoba, A.**, see Martin-Lammerding, D., *JIoT March 1, 2021 3636-3652*
- Costa, D.B.d.**, see Shim, K., *JIoT Dec. 15, 2021 17476-17494*
- Costa, L.R.**, Aloise, D., Gianoli, L.G., and Lodi, A., The Covering-Assignment Problem for Swarm-Powered Ad Hoc Clouds: A Distributed 3-D Mapping Use-case; *JIoT May 1, 2021 7316-7332*
- Crisostomi, E.**, see Moschella, M., *JIoT July 15, 2021 11112-11122*
- Crowcroft, J.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- Crowcroft, J.**, see Pal, R., *JIoT July 15, 2021 11773-11775*
- Cruz, J.**, see Chakraborty, P., *JIoT May 1, 2021 7303-7315*
- Cuevas, M.R.**, see Moreno-Cruz, F., *JIoT March 1, 2021 3678-3688*
- Cui, G.**, see Zhang, Y., *JIoT Oct. 15, 2021 15500-15511*
- Cui, J.**, see Zhang, Q., *JIoT Feb. 1, 2021 1946-1958*
- Cui, J.**, Chen, X., Zhang, J., Zhang, Q., and Zhong, H., Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles; *JIoT May 15, 2021 7925-7937*
- Cui, J.**, see Ma, J., *JIoT July 1, 2021 10873-10883*
- Cui, J.**, see Zhong, H., *JIoT Dec. 15, 2021 17734-17746*
- Cui, L.**, see Yu, F., *JIoT Feb. 1, 2021 1259-1271*
- Cui, L.**, Chen, Z., Yang, S., Ming, Z., Li, Q., Zhou, Y., Chen, S., and Lu, Q., A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles; *JIoT Feb. 15, 2021 2395-2408*
- Cui, L.**, see Yang, S., *JIoT June 15, 2021 9580-9593*
- Cui, S.**, see Wang, S., *JIoT Feb. 1, 2021 1358-1372*
- Cui, S.**, see Xu, Y., *JIoT Feb. 15, 2021 2681-2693*
- Cui, S.**, see Ning, H., *JIoT April 1, 2021 6077-6088*
- Cui, S.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Cui, W.**, Liu, C., and Cai, L., Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT; *JIoT Nov. 15, 2021 16705-16717*
- Cui, W.**, see Wang, D., *JIoT Dec. 15, 2021 17345-17355*
- Cui, X.**, see Zhao, S., *JIoT Jan. 15, 2021 1082-1094*
- Cui, X.**, see Zhao, S., *JIoT June 1, 2021 9030-9044*
- Cui, X.**, see Zhao, S., *JIoT June 1, 2021 8883-8896*
- Cui, Y.**, see Wang, R., *JIoT June 1, 2021 8964-8975*
- Cui, Y.**, see Tang, X., *JIoT Sept. 1, 2021 13737-13749*
- Cui, Z.**, see Pu, Z., *JIoT Jan. 1, 2021 474-486*
- Cui, Z.**, Jing, X., Zhao, P., Zhang, W., and Chen, J., A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System; *JIoT Aug. 15, 2021 12540-12549*

Cuppens, F., see Navas, R.E., *JIoT May 15, 2021 7818-7832*
Curry, E., see Yadav, P., *JIoT July 1, 2021 10367-10389*
Czentye, J., see Pelle, I., *JIoT May 15, 2021 7954-7972*

D

- D'Angelo, G.**, Castiglione, A., and Palmieri, F., A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles; *JIoT Aug. 15, 2021 12518-12527*
- D'Errico, R.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- da Cruz, M.A.A.**, Rodrigues, J.J.P.C., Lorenz, P., Korotaev, V.V., and de Albuquerque, V.H.C., In.IoT—A New Middleware for Internet of Things; *JIoT May 15, 2021 7902-7911*
- Dabaghchian, M.**, see Alipour-Fanid, A., *JIoT Sept. 1, 2021 13278-13290*
- Dahiya, R.**, see Bhattacharjee, M., *JIoT March 15, 2021 5101-5110*
- Dahiya, R.**, see Escobedo, P., *JIoT March 15, 2021 5093-5100*
- Dahiya, R.**, see Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Dahlenburg, G.**, see Lei, L., *JIoT May 15, 2021 7938-7953*
- Dahmane, B.**, see Djamaa, B., *JIoT July 15, 2021 11400-11414*
- Dai, C.**, Zhang, M., Li, C., Zhao, J., and Chen, Q., QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things; *JIoT March 15, 2021 4855-4867*
- Dai, C.**, Liu, X., Yang, L.T., Ni, M., Ma, Z., Zhang, Q., and Deen, M.J., Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems; *JIoT June 15, 2021 9697-9705*
- Dai, C.**, see Liu, X., *JIoT July 15, 2021 11041-11051*
- Dai, C.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Dai, H.**, see Wu, Y., *JIoT Feb. 15, 2021 2300-2317*
- Dai, H.**, see Zhang, K., *JIoT Aug. 1, 2021 11935-11959*
- Dai, H.**, see Qin, Z., *JIoT Dec. 15, 2021 17290-17307*
- Dai, J.**, see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Dai, J.**, see Chang, X., *JIoT Aug. 15, 2021 12892-12901*
- Dai, M.**, see Sun, G., *JIoT April 15, 2021 6257-6272*
- Dai, S.**, see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Dai, X.**, see Jin, H., *JIoT Nov. 1, 2021 15776-15784*
- Dai, Y.**, see Lyu, L., *JIoT May 15, 2021 7889-7901*
- Dai, Y.**, see Tian, W., *JIoT Dec. 15, 2021 17372-17381*
- Dai, Z.**, see Wu, S., *JIoT June 15, 2021 10085-10102*
- Dalal, Y.**, see Tushir, B., *JIoT April 15, 2021 6282-6292*
- Dandekar, K.R.**, see Tajin, M.A.S., *JIoT Sept. 1, 2021 13763-13773*
- Daneels, G.**, Delgado, C., Elsas, R., De Poorter, E., Latre, S., Blondia, C., and Famaey, J., Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCN Networks; *JIoT July 1, 2021 10714-10730*
- Daneshmand, M.**, see Mohanta, B.K., *JIoT Jan. 15, 2021 881-888*
- Daneshmand, M.**, see Ning, H., *JIoT April 1, 2021 6077-6088*
- Daneshmand, M.**, see Altaf, A., *JIoT May 1, 2021 7497-7509*
- Daneshmand, M.**, see Ning, H., *JIoT June 1, 2021 8680-8692*
- Daneshmand, M.**, see Qiu, M., *JIoT June 15, 2021 9460-9462*
- Daneshmand, M.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Daneshmand, M.**, see Panda, S.S., *JIoT Aug. 15, 2021 12947-12954*
- Daneshmand, M.**, see Nagasubramanian, G., *JIoT Aug. 15, 2021 12847-12854*
- Daneshmand, M.**, see Dhelim, S., *JIoT Dec. 15, 2021 17817-17828*
- Dang, T.**, Le, D., Nguyen, T., Kim, M., and Choo, H., Monotone Split and Conquer for Anomaly Detection in IoT Sensory Data; *JIoT Oct. 15, 2021 15468-15485*
- Dang, T.N.**, Kim, K., Khan, L.U., Kazmi, S.M.A., Han, Z., and Hong, C.S., On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism; *JIoT Dec. 15, 2021 17382-17394*
- Dardona, S.**, see Serdah, M., *JIoT April 15, 2021 7036-7045*
- Dartmann, G.**, see Yu, W., *JIoT March 1, 2021 3053-3056*
- Das, A.K.**, see Bera, B., *JIoT April 1, 2021 5744-5761*
- Das, A.K.**, see Srinivas, J., *JIoT May 1, 2021 7727-7744*
- Das, A.K.**, see Vangala, A., *JIoT July 1, 2021 10792-10806*
- Das, A.K.**, see Saleem, M.A., *JIoT Nov. 15, 2021 16613-16622*
- Das, R.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Das, S.K.**, see Roy, S.K., *JIoT March 15, 2021 5023-5030*
- Das, S.K.**, see Pandey, A., *JIoT July 1, 2021 10665-10677*
- DaSilva, L.A.**, see Zhou, S., *JIoT Oct. 1, 2021 14431-14434*
- Dautta, M.**, see Rashid, N., *JIoT Jan. 15, 2021 860-868*
- Dautta, M.**, Jimenez, A., Dia, K.K.H., Rashid, N., Al Faruque, M.A., and Tseng, P., Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health; *JIoT May 1, 2021 7600-7609*
- Davaji, B.**, see Pinrod, V., *JIoT March 15, 2021 5009-5022*
- Dbouk, T.**, see Mourad, A., *JIoT Jan. 15, 2021 829-843*
- De, S.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- De, S.**, see Kumar, S., *JIoT June 15, 2021 9920-9933*
- De, S.**, see Pal, R., *JIoT July 15, 2021 11773-11775*
- de Albuquerque, V.H.C.**, see Zhang, J., *JIoT March 1, 2021 3323-3330*
- de Albuquerque, V.H.C.**, see Magaia, N., *JIoT April 15, 2021 6393-6405*
- de Albuquerque, V.H.C.**, see da Cruz, M.A.A., *JIoT May 15, 2021 7902-7911*
- de Albuquerque, V.H.C.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- de Albuquerque, V.H.C.**, see Hassan, M.M., *JIoT June 15, 2021 9611-9621*
- de Albuquerque, V.H.C.**, see Swain, C., *JIoT Aug. 15, 2021 12705-12715*
- de Albuquerque, V.H.C.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- de Albuquerque, V.H.C.**, see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
- de Araujo, A.C.**, and Etemad, A., End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications; *JIoT Dec. 1, 2021 17043-17056*
- De Benedictis, A.**, see Casola, V., *JIoT Aug. 15, 2021 12724-12733*
- de Carvalho Cesar Sobrinho, A.A.**, see Valadares, D.C.G., *JIoT Dec. 1, 2021 17199-17210*
- de Cola, T.**, see Lin, Z., *JIoT July 15, 2021 11123-11134*
- de Jesus, G.G.M.**, Souza, R.D., Montez, C., and Hoeller, A., LoRaWAN Adaptive Data Rate With Flexible Link Margin; *JIoT April 1, 2021 6053-6061*
- de M. Bezerra, J.**, see Pinheiro, A.J., *JIoT March 1, 2021 3930-3938*
- de Moura, A.A.d.H.e.A.**, see Zhang, J., *JIoT March 1, 2021 3323-3330*
- De Nardis, L.**, see Caso, G., *JIoT Sept. 1, 2021 13774-13788*
- De Oliveira, L.F.P.**, Manera, L.T., and Luz, P.D.G.D., Development of a Smart Traffic Light Control System With Real-Time Monitoring; *JIoT March 1, 2021 3384-3393*
- De Poorter, E.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- Deb, P.K.**, see Misra, S., *JIoT April 15, 2021 6975-6982*
- Deb, P.K.**, see Saha, R., *JIoT May 15, 2021 8456-8463*
- Deb, P.K.**, see Misra, S., *JIoT June 15, 2021 10010-10017*
- Deb, P.K.**, see Pathak, N., *JIoT Sept. 1, 2021 13145-13164*
- Debbah, M.**, Zhang, H., Saad, W., and Song, L., Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks; *JIoT June 15, 2021 9774-9775*
- Deborah, L.J.**, see Vinoth, R., *JIoT March 1, 2021 3801-3811*
- Deen, M.J.**, see Dai, C., *JIoT June 15, 2021 9697-9705*
- Deen, M.J.**, see Ren, L., *JIoT Aug. 15, 2021 12578-12587*
- Deese, A.S.**, Jesson, J., Brennan, T., Hollain, S., Stefanacci, P., Driscoll, E., Dick, C., Garcia, K., Mosher, R., Rentsch, B., Bechtel, A., and Rodriguez, E., Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks; *JIoT Jan. 1, 2021 222-231*
- Dehghantanaha, A.**, see Haddadpajouh, H., *JIoT March 15, 2021 4540-4547*
- Dehghantanaha, A.**, see Yazdinejad, A., *JIoT April 15, 2021 6406-6415*
- Dehghantanaha, A.**, see Jahromi, A.N., *JIoT Sept. 1, 2021 13712-13722*
- Delgado, C.**, Sanz, J.M., Blondia, C., and Famaey, J., Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization; *JIoT Feb. 15, 2021 2694-2711*
- Delgado, C.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- Den Ouden, C.J.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Deng, B.**, see Lin, M., *JIoT June 15, 2021 10187-10197*
- Deng, H.**, see Chen, Y., *JIoT Feb. 15, 2021 2762-2774*
- Deng, L.**, see Cai, Z., *JIoT Jan. 1, 2021 418-427*
- Deng, L.**, Yang, Y., and Gao, R., Certificateless Designated Verifier Anonymous Aggregate Signature Scheme for Healthcare Wireless Sensor Networks; *JIoT June 1, 2021 8897-8909*
- Deng, M.**, see Zhou, B., *JIoT May 1, 2021 7203-7213*
- Deng, P.**, see Iqbal, W., *JIoT June 15, 2021 9622-9633*
- Deng, R.**, see Zhang, F., *JIoT April 1, 2021 6101-6113*
- Deng, R.**, see Zhang, Z., *JIoT April 15, 2021 6608-6623*
- Deng, R.H.**, see Chen, Z., *JIoT April 1, 2021 5839-5849*

- Deng, R.H.**, see Wang, X., *JIoT Dec. 15, 2021 17639-17654*
- Deng, R.H.**, see Zhao, B., *JIoT Dec. 15, 2021 17584-17595*
- Deng, T.**, see Jin, R., *JIoT July 1, 2021 10755-10765*
- Deng, X.**, see Yi, Y., *JIoT Feb. 15, 2021 2177-2192*
- Deng, X.**, see Yi, L., *JIoT March 1, 2021 3108-3119*
- Deng, X.**, Sun, Z., Li, D., Luo, J., and Wan, S., User-Centric Computation Offloading for Edge Computing; *JIoT Aug. 15, 2021 12559-12568*
- Deng, X.**, see Feng, J., *JIoT Dec. 1, 2021 16801-16813*
- Deng, Y.**, see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
- Deng, Y.**, see Wu, H., *JIoT Feb. 15, 2021 2163-2176*
- Deng, Y.**, see Zhang, M., *JIoT Sept. 1, 2021 13608-13623*
- Deng, Z.**, see Xu, Y., *JIoT Feb. 15, 2021 2681-2693*
- Deng, Z.**, see Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
- Dev, K.**, see Shah, A.A., *JIoT June 1, 2021 9397-9406*
- Dev, K.**, see Khan, F., *JIoT Oct. 1, 2021 14835-14844*
- Devetsikiotis, M.**, see Arzo, S.T., *JIoT Aug. 1, 2021 12021-12045*
- Dey, S.**, Bhattacharyya, R., Sarma, S.E., and Karmakar, N.C., A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications; *JIoT March 1, 2021 3955-3971*
- Dezfouli, B.**, see Tushir, B., *JIoT April 15, 2021 6282-6292*
- Dhanasekaran, P.**, see Anbalagan, S., *JIoT Sept. 15, 2021 13950-13957*
- Dhelim, S.**, see Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
- Dhelim, S.**, Ning, H., and Aung, N., ComPath: User Interest Mining in Heterogeneous Signed Social Networks for Internet of People ; *JIoT April 15, 2021 7024-7035*
- Dhelim, S.**, see Naouri, A., *JIoT Aug. 15, 2021 13065-13076*
- Dhelim, S.**, Ning, H., Farha, F., Chen, L., Atzori, L., and Daneshmand, M., IoT-Enabled Social Relationships Meet Artificial Social Intelligence; *JIoT Dec. 15, 2021 17817-17828*
- Di, Z.**, see Wang, C., *JIoT Dec. 1, 2021 16911-16920*
- Di Benedetto, M.**, see Caso, G., *JIoT Sept. 1, 2021 13774-13788*
- Di Lorenzo, P.**, see Battiloro, C., *JIoT May 15, 2021 8530-8542*
- Di Marco, P.**, see Park, P., *JIoT May 15, 2021 7745-7767*
- Di Martino, S.**, see Casola, V., *JIoT Aug. 15, 2021 12724-12733*
- Dia, K.K.H.**, see Dautta, M., *JIoT May 1, 2021 7600-7609*
- Diamantini, C.**, Nocera, A., Potena, D., Storti, E., and Ursino, D., Querying the IoT Using Multiresolution Contexts; *JIoT April 1, 2021 6127-6139*
- Dias, M.P.I.**, see Ruan, L., *JIoT Jan. 1, 2021 626-635*
- Dick, C.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Din, I.U.**, see Almogren, A., *JIoT March 15, 2021 4485-4497*
- Din, I.U.**, see Awan, K.A., *JIoT Nov. 1, 2021 15672-15682*
- Ding, G.**, see Yan, Y., *JIoT May 15, 2021 8159-8172*
- Ding, H.**, see Liu, X., *JIoT Oct. 15, 2021 15049-15058*
- Ding, J.**, see Ye, X., *JIoT Feb. 1, 2021 1373-1387*
- Ding, J.**, see Wu, M., *JIoT July 1, 2021 10639-10651*
- Ding, J.**, Qu, D., Feng, M., Choi, J., and Jiang, T., Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems; *JIoT Oct. 15, 2021 15361-15371*
- Ding, L.**, Zhao, D., Cao, M., and Ma, H., When Crowdsourcing Meets Unmanned Vehicles: Toward Cost-Effective Collaborative Urban Sensing via Deep Reinforcement Learning; *JIoT Aug. 1, 2021 12150-12162*
- Ding, M.**, see Nguyen, D.C., *JIoT July 15, 2021 11743-11757*
- Ding, M.**, see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Ding, M.**, see Ma, C., *JIoT Dec. 15, 2021 17308-17319*
- Ding, N.**, see Xu, D., *JIoT Feb. 1, 2021 1519-1532*
- Ding, S.**, see Zhao, L., *JIoT March 1, 2021 3211-3223*
- Ding, T.**, see Su, Y., *JIoT Dec. 1, 2021 16921-16932*
- Ding, X.**, Zhang, S., Song, M., and Li, F., Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things; *JIoT Jan. 15, 2021 802-812*
- Ding, X.**, see Ding, X., *JIoT Jan. 15, 2021 802-812*
- Ding, X.**, see Guo, J., *JIoT Feb. 1, 2021 2040-2050*
- Ding, X.**, see Wang, Y., *JIoT March 1, 2021 3446-3461*
- Ding, X.**, see Wang, C., *JIoT June 1, 2021 9317-9329*
- Ding, X.**, see Xue, Z., *JIoT June 1, 2021 9122-9138*
- Ding, Y.**, Wu, G., Chen, D., Zhang, N., Gong, L., Cao, M., and Qin, Z., Deep-EDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things; *JIoT Feb. 1, 2021 1504-1518*
- Ding, Y.**, Zhang, W., Zhou, X., Liao, Q., Luo, Q., and Ni, L.M., FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories; *JIoT Aug. 15, 2021 12505-12517*
- Ding, Y.**, see Xu, J., *JIoT Oct. 1, 2021 14971-14984*
- Ding, Y.**, see Zhou, M., *JIoT Oct. 15, 2021 15117-15125*
- Ding, Z.**, see Zheng, H., *JIoT March 15, 2021 4802-4815*
- Ding, Z.**, see Xu, P., *JIoT May 15, 2021 8145-8158*
- Ding, Z.**, see Du, J., *JIoT May 15, 2021 7849-7862*
- Dion, G.**, see Tajin, M.A.S., *JIoT Sept. 1, 2021 13763-13773*
- Divakaran, D.M.**, see Sudheera, K.L.K., *JIoT April 15, 2021 6591-6607*
- Divakaran, D.M.**, see Chakraborty, B., *JIoT July 15, 2021 11052-11064*
- Divan, M.J.**, Sanchez-Reynoso, M.L., Panebianco, J.E., and Mendez, M.J., IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health; *JIoT Aug. 1, 2021 11983-12003*
- Divya, V.**, and Sri, R.L., Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure; *JIoT May 15, 2021 8133-8144*
- Djamaa, B.**, Senouci, M.R., Bessas, H., Dahmane, B., and Mellouk, A., Efficient and Stateless P2P Routing Mechanisms for the Internet of Things; *JIoT July 15, 2021 11400-11414*
- Djenouri, Y.**, see Lin, J.C., *JIoT April 1, 2021 5340-5349*
- Do, D.**, see Shakoor, S., *JIoT June 15, 2021 9776-9786*
- Do, T.N.**, see Shim, K., *JIoT Dec. 15, 2021 17476-17494*
- Dobre, O.A.**, see Bariah, L., *JIoT April 1, 2021 5129-5140*
- Dobre, O.A.**, see Shakoor, S., *JIoT June 15, 2021 9776-9786*
- Dobre, O.A.**, see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
- Dogan, A.**, see Batmaz, B., *JIoT Dec. 15, 2021 17790-17801*
- Dogan, O.**, see Akar, N., *JIoT Oct. 1, 2021 14531-14542*
- Dogan, S.**, see Rahulamathavan, Y., *JIoT Feb. 1, 2021 1417-1427*
- Doka, J.**, see Pelle, I., *JIoT May 15, 2021 7954-7972*
- Dong, C.**, see You, W., *JIoT Jan. 15, 2021 695-707*
- Dong, L.**, see Zhang, J., *JIoT May 1, 2021 7610-7624*
- Dong, M.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Dong, M.**, see Li, C., *JIoT May 1, 2021 7192-7202*
- Dong, M.**, see Xing, G., *JIoT June 1, 2021 9005-9013*
- Dong, T.**, see Qiu, H., *JIoT July 1, 2021 10327-10335*
- Dong, W.**, see Li, B., *JIoT April 1, 2021 5893-5903*
- Dong, W.**, Yang, Q., Li, W., and Zomaya, A.Y., Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment; *JIoT Sept. 1, 2021 13703-13711*
- Dong, X.**, see Gao, J., *JIoT Jan. 15, 2021 951-961*
- Dong, X.**, You, Z., Luan, T.H., Yao, Q., Shen, Y., and Ma, J., Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy; *JIoT May 15, 2021 8032-8043*
- Dong, X.**, see Chen, L., *JIoT May 15, 2021 7863-7873*
- Dong, Y.**, see Bao, Z., *JIoT Feb. 15, 2021 2826-2841*
- Dong, Y.**, and Yao, Y., Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home; *JIoT March 1, 2021 3500-3511*
- Dong, Y.**, see Hu, L., *JIoT July 15, 2021 11329-11344*
- Doss, R.**, see Pokhrel, S.R., *JIoT July 1, 2021 10299-10307*
- Dosti, E.**, see Shehab, M., *JIoT July 15, 2021 11135-11149*
- Dou, D.**, see Wang, K., *JIoT Nov. 15, 2021 16666-16679*
- Dou, F.**, Lu, J., Xu, T., Huang, C., and Bi, J., A Bisection Reinforcement Learning Approach to 3-D Indoor Localization; *JIoT April 15, 2021 6519-6535*
- Dou, J.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Douillard, C.**, see Kilzi, A., *JIoT Dec. 15, 2021 17705-17723*
- Dousset, D.**, see Gu, X., *JIoT Sept. 1, 2021 13209-13221*
- Drira, K.**, see Ouedraogo, C.A., *JIoT March 1, 2021 3885-3903*
- Driscoll, E.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Du, H.**, see Zhu, D., *JIoT March 1, 2021 3201-3210*
- Du, H.**, see Zhang, C., *JIoT April 15, 2021 6624-6636*
- Du, H.**, see Liu, C., *JIoT Sept. 15, 2021 13888-13899*
- Du, H.**, see Bai, L., *JIoT Dec. 15, 2021 17622-17638*
- Du, J.**, see Liu, M., *JIoT April 1, 2021 5585-5598*

- Du, J.**, Liu, W., Lu, G., Jiang, J., Zhai, D., Yu, F.R., and Ding, Z., When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization; *JIoT May 15, 2021 7849-7862*
- Du, J.**, see Qiu, C., *JIoT Aug. 15, 2021 12694-12704*
- Du, J.**, see Xiao, Z., *JIoT Aug. 15, 2021 12658-12668*
- Du, M.**, see Tian, W., *JIoT Dec. 15, 2021 17372-17381*
- Du, S.**, see Qu, Y., *JIoT May 1, 2021 7394-7406*
- Du, W.**, see Jiang, H., *JIoT June 15, 2021 9495-9510*
- Du, X.**, see Su, Y., *JIoT Jan. 15, 2021 791-801*
- Du, X.**, see Sun, G., *JIoT Feb. 1, 2021 1971-1984*
- Du, X.**, see Shen, M., *JIoT Feb. 15, 2021 2265-2275*
- Du, X.**, see Shafiq, M., *JIoT March 1, 2021 3242-3254*
- Du, X.**, see Yu, H., *JIoT April 1, 2021 5722-5735*
- Du, X.**, see Zhou, R., *JIoT April 15, 2021 6425-6436*
- Du, X.**, see Yang, W., *JIoT Aug. 15, 2021 8632-8643*
- Du, X.**, see Zhang, W., *JIoT May 15, 2021 8119-8132*
- Du, X.**, see Niu, W., *JIoT June 15, 2021 9905-9919*
- Du, X.**, see Zhu, L., *JIoT Aug. 1, 2021 12106-12118*
- Duan, D.**, see Cheng, X., *JIoT June 1, 2021 9109-9121*
- Duan, J.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Duan, M.**, see Hu, Q., *JIoT Aug. 15, 2021 12782-12791*
- Duan, M.**, see Xi, W., *JIoT Aug. 15, 2021 12758-12770*
- Duan, P.**, see Cao, Y., *JIoT Dec. 15, 2021 17449-17459*
- Duan, S.**, Yang, W., Wang, X., Mao, S., and Zhang, Y., Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach; *JIoT Dec. 1, 2021 17147-17160*
- Duan, W.**, see Pei, X., *JIoT April 1, 2021 5240-5249*
- Duan, W.**, Ji, Y., Hou, J., Zhuo, B., Wen, M., and Zhang, G., Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper; *JIoT April 15, 2021 6154-6166*
- Duan, W.**, see Tang, Y., *JIoT Nov. 1, 2021 16023-16034*
- Duan, X.**, see Zhou, J., *JIoT Aug. 1, 2021 12311-12328*
- Duan, Y.**, see Li, X., *JIoT Aug. 1, 2021 12176-12188*
- Duanmu, S.**, see Bi, J., *JIoT March 1, 2021 3774-3785*
- Durrani, T.S.**, see Liang, Q., *JIoT Oct. 15, 2021 15037-15040*
- Dustdar, S.**, see Huang, Y., *JIoT May 1, 2021 7288-7302*
- E**
- Ebrahimi, M.**, see Haghighi, M.S., *JIoT Aug. 15, 2021 12716-12723*
- Ebrahimi, S.**, and Bayat-Sarmadi, S., Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT ; *JIoT July 1, 2021 10706-10713*
- Eceiza, M.**, Flores, J.L., and Iturbe, M., Fuzzing the Internet of Things: A Review on the Techniques and Challenges for Efficient Vulnerability Discovery in Embedded Systems; *JIoT July 1, 2021 10390-10411*
- Edward, P.**, El-Aasser, M., Ashour, M., and Elshabrawy, T., Interleaved Chirp Spreading LoRa as a Parallel Network to Enhance LoRa Capacity; *JIoT March 1, 2021 3864-3874*
- Egala, B.S.**, Pradhan, A.K., Badarla, V., and Mohanty, S.P., Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control; *JIoT July 15, 2021 11717-11731*
- Eggmann, M.**, see Scherer, M., *JIoT July 1, 2021 10336-10346*
- Eid, A.**, Zhu, J., Xu, L., Hester, J.G.D., and Tentzeris, M.M., Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array ; *JIoT Oct. 1, 2021 14719-14730*
- Ejlali, A.**, see Safaei, B., *JIoT Jan. 15, 2021 1169-1182*
- El-Aasser, M.**, see Edward, P., *JIoT March 1, 2021 3864-3874*
- El-Latif, A.A.A.**, see Zhang, W., *JIoT May 15, 2021 8119-8132*
- El-Shahat, D.**, see Abdel-Basset, M., *JIoT Aug. 15, 2021 12638-12649*
- El-Sheimy, N.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Elayan, H.**, Aloqaily, M., and Guizani, M., Digital Twin for Intelligent Context-Aware IoT Healthcare Systems; *JIoT Dec. 1, 2021 16749-16757*
- Elbiaze, H.**, see Abouzaid, L., *JIoT March 1, 2021 3743-3757*
- Elbiaze, H.**, see Taghizadeh, S., *JIoT May 15, 2021 8474-8487*
- Eldosouky, A.**, see Ferdowsi, A., *JIoT Nov. 15, 2021 16395-16405*
- Elgendy, I.A.**, see Zhang, W., *JIoT May 15, 2021 8119-8132*
- Elhoseny, M.**, see Abdel-Basset, M., *JIoT March 15, 2021 4969-4979*
- Elhoseny, M.**, see Younan, M., *JIoT April 1, 2021 5953-5972*
- Elhoseny, M.**, see Abdel-Basset, M., *JIoT Aug. 15, 2021 12638-12649*
- Elkashlan, M.**, see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
- Elmokashfi, A.**, see Michelinakis, F., *JIoT Jan. 15, 2021 1224-1242*
- Elsas, R.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- ElSawy, H.**, see Emara, M., *JIoT Feb. 1, 2021 1477-1491*
- ElSawy, H.**, see Zhaikhan, A., *JIoT April 1, 2021 6039-6052*
- Elshabrawy, T.**, see Edward, P., *JIoT March 1, 2021 3864-3874*
- Emara, M.**, ElSawy, H., and Bauch, G., Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues ; *JIoT Feb. 1, 2021 1477-1491*
- Engelstad, P.E.**, see Hagos, D.H., *JIoT March 1, 2021 3534-3553*
- Ephremides, A.**, see Zhou, S., *JIoT Oct. 1, 2021 14431-14434*
- Erb, J.**, see Scherer, M., *JIoT July 1, 2021 10336-10346*
- Erbad, A.**, see Singh, J., *JIoT April 1, 2021 5794-5805*
- Erbad, A.**, see Saria Allahham, M., *JIoT April 15, 2021 6454-6468*
- Erbad, A.**, see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- Errami, A.**, see Abouzaid, L., *JIoT March 1, 2021 3743-3757*
- Escobedo, P.**, Bhattacharjee, M., Nikbakhtnasrabadi, F., and Dahiya, R., Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag; *JIoT March 15, 2021 5093-5100*
- Escolar, S.**, see Caruso, A., *JIoT Nov. 15, 2021 16692-16704*
- Esposito, F.**, see Samanta, A., *JIoT Dec. 1, 2021 16963-16971*
- Esrafilian, O.**, Gangula, R., and Gesbert, D., Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems; *JIoT June 15, 2021 9894-9904*
- Etemad, A.**, see de Araujo, A.C., *JIoT Dec. 1, 2021 17043-17056*
- Evans, C.L.**, see Cascales, J.P., *JIoT Dec. 15, 2021 17557-17567*
- Evans, J.W.**, Kim, B., Ono, S., Arias, A.C., and Wright, P.K., Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT ; *JIoT June 15, 2021 10047-10051*
- F**
- Fadlullah, Z.M.**, see Sakib, S., *JIoT April 1, 2021 5285-5297*
- Famaey, J.**, see Delgado, C., *JIoT Feb. 15, 2021 2694-2711*
- Famaey, J.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- Famaey, J.**, see Sultania, A.K., *JIoT Aug. 1, 2021 12436-12454*
- Fan, J.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Fan, P.**, see Hu, H., *JIoT Jan. 15, 2021 1211-1223*
- Fan, P.**, see Ma, J., *JIoT Feb. 1, 2021 1492-1503*
- Fan, P.**, see Bao, Z., *JIoT Feb. 15, 2021 2826-2841*
- Fan, P.**, see Zheng, H., *JIoT March 15, 2021 4802-4815*
- Fan, Q.**, Wu, S., Zhou, X., Li, L., and Wang, Z., A Genetic Algorithm Based on Auxiliary-Individual-Directed Crossover for Internet-of-Things Applications; *JIoT April 1, 2021 5518-5530*
- Fan, S.**, Zhang, H., Zeng, Y., and Cai, W., Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing; *JIoT Feb. 15, 2021 2252-2264*
- Fan, W.**, Yao, L., Han, J., Wu, F., and Liu, Y., Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations; *JIoT Dec. 15, 2021 17691-17704*
- Fan, X.**, see Liao, Z., *JIoT June 15, 2021 9730-9739*
- Fan, Y.**, Zhao, G., Lei, X., Liang, W., Li, K., Choo, K.R., and Zhu, C., SBBS: A Secure Blockchain-Based Scheme for IoT Data Credibility in Fog Environment ; *JIoT June 1, 2021 9268-9277*
- Fan, Y.**, see Shang, J., *JIoT Nov. 15, 2021 16571-16584*
- Fan, Y.**, see Shen, Y., *JIoT Dec. 1, 2021 16770-16778*
- Fang, B.**, see Zhao, L., *JIoT April 1, 2021 5574-5584*
- Fang, D.**, see Xu, D., *JIoT Feb. 1, 2021 1519-1532*
- Fang, D.**, Guan, X., Peng, Y., Chen, H., Ohtsuki, T., and Han, Z., Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy; *JIoT May 15, 2021 8557-8569*

- Fang, D.**, Guan, X., Hu, B., Peng, Y., Chen, M., and Hwang, K., Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy; *JIoT June 15, 2021 9654-9663*
- Fang, F.**, and Wu, X., A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing; *JIoT March 15, 2021 3983-4003*
- Fang, H.**, see Xiao, Z., *JIoT March 1, 2021 3812-3821*
- Fang, J.**, and Ma, A., IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing; *JIoT Aug. 15, 2021 12771-12781*
- Fang, L.**, Wu, Y., Wu, C., and Yu, Y., A Nonintrusive Elderly Home Monitoring System; *JIoT Feb. 15, 2021 2603-2614*
- Fang, S.**, see Chai, Z., *JIoT Jan. 15, 2021 1109-1122*
- Fang, S.**, see Liu, J., *JIoT March 15, 2021 4389-4402*
- Fang, T.**, Wu, D., Chen, J., Yue, C., and Wang, M., Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach; *JIoT Sept. 15, 2021 14418-14430*
- Fang, X.**, Feng, W., Wei, T., Chen, Y., Ge, N., and Wang, C., 5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks; *JIoT Sept. 15, 2021 14399-14417*
- Fang, Y.**, see Cai, Y., *JIoT Jan. 1, 2021 647-656*
- Fang, Y.**, see Xu, H., *JIoT March 1, 2021 3915-3929*
- Fang, Y.**, see Zhu, Y., *JIoT March 1, 2021 3689-3704*
- Fang, Y.**, see Yang, Z., *JIoT April 1, 2021 5149-5163*
- Fang, Z.**, Wang, J., Jiang, C., Zhang, Q., and Ren, Y., AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things; *JIoT Oct. 1, 2021 14559-14571*
- Fantacci, R.**, and Picano, B., End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications; *JIoT Dec. 1, 2021 17090-17099*
- Fapojuwu, A.O.**, see Wang, H., *JIoT July 1, 2021 10499-10508*
- Farag, H.**, Grimaldi, S., Gidlund, M., and Osterberg, P., REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks; *JIoT Feb. 1, 2021 1871-1882*
- Farah, J.**, see Kilzi, A., *JIoT Dec. 15, 2021 17705-17723*
- Farahani, B.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Fard, Y.M.**, see Khalil, R.A., *JIoT July 15, 2021 11016-11040*
- Farha, F.**, Ning, H., Ali, K., Chen, L., and Nugent, C., SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices; *JIoT April 1, 2021 5904-5913*
- Farha, F.**, see Dhelim, S., *JIoT Dec. 15, 2021 17817-17828*
- Farhat, J.**, Brante, G., Souza, R.D., and Vilela, J.P., On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers; *JIoT Oct. 1, 2021 14672-14682*
- Farina, D.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Farivar, F.**, see Garmaroodi, M.S.S., *JIoT July 1, 2021 10280-10287*
- Farkhatdinov, L.**, see Sun, F., *JIoT Feb. 1, 2021 1636-1650*
- Farouk, A.**, see Zhu, F., *JIoT April 1, 2021 5211-5218*
- Fathian, M.**, see Razian, M., *JIoT March 1, 2021 3665-3677*
- Fathoni, H.**, see Kristiani, E., *JIoT Jan. 1, 2021 309-319*
- Faulkner, E.**, Yun, Z., Zhou, S., Shi, Z.J., Han, S., and Giannakis, G.B., An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer; *JIoT June 1, 2021 9206-9218*
- Faulkner, N.**, see Alam, F., *JIoT March 15, 2021 4228-4249*
- Fawaz, H.**, Khawam, K., Lahoud, S., Martin, S., and Helou, M.E., Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment; *JIoT April 1, 2021 5544-5557*
- Fei, Z.**, see Tang, Q., *JIoT June 1, 2021 9164-9176*
- Fei, Z.**, see Chen, K., *JIoT June 15, 2021 10103-10116*
- Felici-Castell, S.**, see Segura-Garcia, J., *JIoT Aug. 1, 2021 12467-12475*
- Feng, D.**, see Wang, J., *JIoT March 1, 2021 3462-3475*
- Feng, J.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Feng, J.**, Wang, Y., Wang, J., and Ren, F., Blockchain-Based Data Management and Edge-Assisted Trusted Cloaking Area Construction for Location Privacy Protection in Vehicular Networks; *JIoT Feb. 15, 2021 2087-2101*
- Feng, J.**, see Zhang, H., *JIoT April 1, 2021 5632-5644*
- Feng, J.**, Liu, L., Pei, Q., Hou, F., Yang, T., and Wu, J., Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing; *JIoT June 1, 2021 9407-9421*
- Feng, J.**, Chen, H., Deng, X., Yang, L.T., and Tan, F., Confidential Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks; *JIoT Dec. 1, 2021 16801-16813*
- Feng, K.**, see Shen, L., *JIoT July 15, 2021 11368-11383*
- Feng, L.**, see Yao, S., *JIoT April 1, 2021 6062-6076*
- Feng, L.**, see Ma, M., *JIoT Aug. 1, 2021 11793-11806*
- Feng, M.**, see Xu, G., *JIoT June 15, 2021 9559-9567*
- Feng, M.**, see Ding, J., *JIoT Oct. 15, 2021 15361-15371*
- Feng, T.**, see Zhao, Y., *JIoT Jan. 1, 2021 393-406*
- Feng, W.**, see Cao, J., *JIoT March 1, 2021 3758-3773*
- Feng, W.**, see Wei, T., *JIoT June 1, 2021 8910-8934*
- Feng, W.**, see Fang, X., *JIoT Sept. 15, 2021 14399-14417*
- Feng, Y.**, see Yang, M., *JIoT Jan. 1, 2021 370-380*
- Feng, Y.**, see Zhang, W., *JIoT Feb. 15, 2021 2354-2363*
- Feng, Y.**, see Jia, R., *JIoT Sept. 15, 2021 14299-14307*
- Feng, Z.**, see Huang, S., *JIoT Feb. 1, 2021 2051-2065*
- Feng, Z.**, see Zhang, Q., *JIoT June 15, 2021 9995-10009*
- Feng, Z.**, see Zhang, Q., *JIoT June 15, 2021 10071-10084*
- Feng, Z.**, see Chen, X., *JIoT Aug. 1, 2021 12093-12105*
- Feng, Z.**, see Qin, X., *JIoT Oct. 1, 2021 14501-14513*
- Feng, Z.**, see Li, B., *JIoT Oct. 15, 2021 15303-15316*
- Ferdowsi, A.**, Saad, W., and Mandayam, N.B., Colonel Blotto Game for Sensor Protection in Interdependent Critical Infrastructure; *JIoT Feb. 15, 2021 2857-2874*
- Ferdowsi, A.**, Eldosouky, A., and Saad, W., Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems; *JIoT Nov. 15, 2021 16395-16405*
- Fernandes, R.**, Luis, M., and Sargento, S., Large-Scale LoRa Networks: A Mode Adaptive Protocol; *JIoT Sept. 1, 2021 13487-13502*
- Fernandez, E.M.G.**, see Lopez, O.L.A., *JIoT June 1, 2021 8816-8835*
- Fernandez-Caballero, A.**, see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
- Fernandez-Sanjurjo, M.**, Mucientes, M., and Brea, V.M., Real-Time Multiple Object Visual Tracking for Embedded GPU Systems; *JIoT June 1, 2021 9177-9188*
- Ferrag, M.A.**, and Shu, L., The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial; *JIoT Dec. 15, 2021 17236-17260*
- Ferrari, P.**, see Beltramelli, L., *JIoT May 15, 2021 7912-7924*
- Ferraro, P.**, see Moschella, M., *JIoT July 15, 2021 11112-11122*
- Ferrer-Cid, P.**, Barcelo-Ordinas, J.M., and Garcia-Vidal, J., Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms; *JIoT Sept. 1, 2021 13652-13663*
- Figuerola-Lorenzo, S.**, Goya, J., Anorga, J., Adin, I., Mendizabal, J., and Arrizabalaga, S., Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log; *JIoT Sept. 1, 2021 13306-13315*
- Filley, T.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Finnegan, J.**, Niotaki, K., and Brown, S., Exploring the Boundaries of Ambient RF Energy Harvesting With LoRaWAN; *JIoT April 1, 2021 5736-5743*
- Firouzi, F.**, Farahani, B., Daneshmand, M., Grise, K., Song, J., Saracco, R., Wang, L.L., Lo, K., Angelov, P., Soares, E., Loh, P., Talebpour, Z., Moradi, R., Goodarzi, M., Ashraf, H., Talebpour, M., Talebpour, A., Romeo, L., Das, R., Heidari, H., Pasquale, D., Moody, J., Woods, C., Huang, E.S., Barnaghi, P., Sarrafzadeh, M., Li, R., Beck, K.L., Isayev, O., Sung, N., and Luo, A., Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World; *JIoT Aug. 15, 2021 12826-12846*
- Fischione, C.**, see Park, P., *JIoT May 15, 2021 7745-7767*
- Fitzek, F.H.P.**, see Arzo, S.T., *JIoT Aug. 1, 2021 12021-12045*
- Fitzgerald, E.**, see Moradi, F., *JIoT Feb. 15, 2021 2574-2584*
- Flores, J.L.**, see Eceiza, M., *JIoT July 1, 2021 10390-10411*
- Foh, C.H.**, see Zhen, L., *JIoT April 1, 2021 5114-5128*
- Fonseca, R.**, see Magaia, N., *JIoT April 15, 2021 6393-6405*
- Forestiero, A.**, and Papuzzo, G., Agents-Based Algorithm for a Distributed Information System in Internet of Things; *JIoT Nov. 15, 2021 16548-16558*

- Forouzesh, M.**, Azmi, P., Kuhestani, A., and Yeoh, P.L., Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden; *JIoT May 1, 2021 7170-7181*
- Fortino, G.**, see Lin, K., *JIoT April 1, 2021 5264-5273*
- Fortino, G.**, Buyya, R., Chen, M., and Herrera, F., Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things; *JIoT July 1, 2021 10220-10221*
- Fortino, G.**, see Gopikrishnan, S., *JIoT July 15, 2021 11345-11356*
- Fortino, G.**, see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
- Foster, E.J.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Fotovvat, A.**, Rahman, G.M.E., Vedaei, S.S., and Wahid, K.A., Comparative Performance Analysis of Lightweight Cryptography Algorithms for IoT Sensor Nodes; *JIoT May 15, 2021 8279-8290*
- Fouda, M.M.**, see Ibrahim, M.I., *JIoT Jan. 15, 2021 1243-1258*
- Fouda, M.M.**, see Sakib, S., *JIoT April 1, 2021 5285-5297*
- Fouda, M.M.**, see Ibrahim, M.I., *JIoT Dec. 1, 2021 17131-17146*
- Fraunholz, D.**, see Anton, S.D.D., *JIoT Dec. 15, 2021 17525-17540*
- Freitas de Araujo-Filho, P.**, see Pinheiro, A.J., *JIoT March 1, 2021 3930-3938*
- Freitas de Araujo-Filho, P.**, Kaddoum, G., Campelo, D.R., Gondim Santos, A., Macedo, D., and Zanchettin, C., Intrusion Detection for Cyber-Physical Systems Using Generative Adversarial Networks in Fog Environment; *JIoT April 15, 2021 6247-6256*
- Freschi, V.**, and Lattanzi, E., A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems; *JIoT July 15, 2021 11320-11328*
- Frigon, J.**, see Hentati, A., *JIoT March 15, 2021 4920-4930*
- Fu, A.**, see Chen, Z., *JIoT April 1, 2021 5839-5849*
- Fu, F.**, Kang, Y., Zhang, Z., Yu, F.R., and Wu, T., Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV; *JIoT Feb. 1, 2021 1308-1321*
- Fu, J.**, see Li, A., *JIoT Jan. 1, 2021 187-196*
- Fu, J.**, Liao, Z., Liu, J., Smith, S.C., and Wang, J., Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT; *JIoT June 15, 2021 9672-9682*
- Fu, L.**, see Sun, R., *JIoT April 15, 2021 7065-7078*
- Fu, L.**, see Tong, J., *JIoT Aug. 1, 2021 11807-11821*
- Fu, M.**, see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Fu, M.**, Sun, S., Liang, Q., Tong, X., and Liu, Q., Exciting-Inhibition Network for Person Reidentification in Internet of Things; *JIoT Oct. 15, 2021 15059-15069*
- Fu, Q.**, see Wang, D., *JIoT June 1, 2021 9330-9343*
- Fu, S.**, Tang, Y., Wu, Y., Zhang, N., Gu, H., Chen, C., and Liu, M., Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach; *JIoT June 15, 2021 10209-10219*
- Fu, S.**, see Guo, J., *JIoT July 15, 2021 11078-11087*
- Fu, S.**, see Chen, J., *JIoT Oct. 15, 2021 15191-15204*
- Fu, X.**, see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- Fu, X.**, see Su, Y., *JIoT March 1, 2021 3653-3664*
- Fu, X.**, see Liu, K., *JIoT April 15, 2021 6815-6827*
- Fu, X.**, see Yuan, Q., *JIoT Nov. 15, 2021 16359-16369*
- Fuentes, L.**, see Canete, A., *JIoT Nov. 15, 2021 16427-16439*
- Fukushi, M.**, see Gao, C., *JIoT April 15, 2021 6313-6323*
- G**
- Gaba, G.S.**, see Masud, M., *JIoT Nov. 1, 2021 15694-15703*
- Gacanan, H.**, see Wang, J., *JIoT Feb. 1, 2021 1883-1895*
- Gacanan, H.**, see Jogunola, O., *JIoT March 15, 2021 4211-4227*
- Gacanan, H.**, see Popoola, S.I., *JIoT March 15, 2021 4944-4956*
- Gai, K.**, see Jiang, P., *JIoT March 15, 2021 5031-5044*
- Gai, K.**, see Chen, L., *JIoT Aug. 15, 2021 12610-12622*
- Gai, N.**, see Xue, K., *JIoT March 15, 2021 4305-4316*
- Galan-Jimenez, J.**, see Herrera, J.L., *JIoT Dec. 1, 2021 17172-17185*
- Gamaleldin, M.**, Liao, Z., Asfour, M., and Zhao, L., Optimizing the Egress Route Using a New Smoke Emulator IoT System; *JIoT June 1, 2021 9373-9382*
- Gan, C.**, see Zhang, Z., *JIoT April 1, 2021 6012-6023*
- Gan, L.**, see Gao, J., *JIoT Jan. 15, 2021 951-961*
- Gan, W.**, see Tan, E., *JIoT Sept. 15, 2021 14308-14321*
- Gandomi, A.H.**, see Mohanta, B.K., *JIoT Jan. 15, 2021 881-888*
- Gandomi, A.H.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- Gandomi, A.H.**, see Panda, S.S., *JIoT Aug. 15, 2021 12947-12954*
- Gandomi, A.H.**, see Nagasubramanian, G., *JIoT Aug. 15, 2021 12847-12854*
- Gangula, R.**, see Esrafilian, O., *JIoT June 15, 2021 9894-9904*
- Gao, B.**, see Tai, Y., *JIoT Nov. 1, 2021 15965-15976*
- Gao, C.**, Yang, B., Jiang, X., Inamura, H., and Fukushi, M., Covert Communication in Relay-Assisted IoT Systems; *JIoT April 15, 2021 6313-6323*
- Gao, D.**, see Liu, G., *JIoT April 15, 2021 6578-6590*
- Gao, D.**, see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Gao, F.**, see Zhang, Y., *JIoT March 1, 2021 3786-3800*
- Gao, F.**, see Li, D., *JIoT May 1, 2021 7229-7240*
- Gao, F.**, see Zhu, L., *JIoT Aug. 1, 2021 12106-12118*
- Gao, G.**, see Li, J., *JIoT July 15, 2021 11150-11162*
- Gao, H.**, see Zhang, J., *JIoT Jan. 1, 2021 244-261*
- Gao, H.**, see Zhao, W., *JIoT March 15, 2021 4023-4034*
- Gao, H.**, see Yao, B., *JIoT May 15, 2021 8514-8529*
- Gao, H.**, see Xu, H., *JIoT Dec. 15, 2021 17678-17690*
- Gao, J.**, Hu, Z., Bian, K., Mao, X., and Song, L., AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas; *JIoT Jan. 1, 2021 428-442*
- Gao, J.**, Gan, L., Buschendorf, F., Zhang, L., Liu, H., Li, P., Dong, X., and Lu, T., Omni SCADA Intrusion Detection Using Deep Learning Algorithms; *JIoT Jan. 15, 2021 951-961*
- Gao, J.**, Li, M., Zhuang, W., Shen, X., and Li, X., MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results; *JIoT June 15, 2021 9958-9969*
- Gao, J.**, Zhuang, W., Li, M., Shen, X., and Li, X., MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis; *JIoT June 15, 2021 9945-9957*
- Gao, J.**, see Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Gao, J.**, see Shi, W., *JIoT Oct. 1, 2021 14572-14588*
- Gao, J.**, see Min, R., *JIoT Oct. 15, 2021 15396-15406*
- Gao, L.**, see Wang, T., *JIoT March 1, 2021 3369-3383*
- Gao, L.**, see Saini, A., *JIoT April 1, 2021 5914-5925*
- Gao, L.**, see Liu, J., *JIoT Nov. 15, 2021 16290-16300*
- Gao, N.**, see Wang, P., *JIoT May 1, 2021 7562-7574*
- Gao, P.**, Zhang, H., Yu, J., Lin, J., Wang, X., Yang, M., and Kong, F., Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images; *JIoT March 1, 2021 3287-3299*
- Gao, Q.**, see Jia, M., *JIoT Oct. 15, 2021 15205-15215*
- Gao, R.**, see Zhao, Y., *JIoT April 1, 2021 5619-5631*
- Gao, R.**, see Deng, L., *JIoT June 1, 2021 8897-8909*
- Gao, R.**, Xiao, X., Zhu, S., Xing, W., Li, C., Liu, L., Ma, L., and Chai, H., Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments; *JIoT Aug. 15, 2021 12955-12967*
- Gao, S.**, see Cheng, J., *JIoT May 1, 2021 7521-7530*
- Gao, S.**, see Song, Y., *JIoT June 15, 2021 9594-9602*
- Gao, X.**, see Chang, H., *JIoT June 15, 2021 9865-9877*
- Gao, X.**, see Zhu, J., *JIoT Sept. 1, 2021 13542-13554*
- Gao, X.**, Huang, X., Tang, Y., Shao, Z., and Yang, Y., History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control; *JIoT Oct. 1, 2021 14683-14704*
- Gao, Y.**, see Huang, S., *JIoT Feb. 1, 2021 2051-2065*
- Gao, Y.**, see Gao, Z., *JIoT March 1, 2021 3422-3437*
- Gao, Y.**, see Mamvong, J.N., *JIoT April 1, 2021 5498-5509*
- Gao, Y.**, see Yan, Y., *JIoT April 15, 2021 6789-6799*
- Gao, Y.**, Liu, L., Zheng, X., Zhang, C., and Ma, H., Federated Sensing: Edge-Cloud Elastic Collaborative Learning for Intelligent Sensing; *JIoT July 15, 2021 11100-11111*
- Gao, Y.**, see Luo, W., *JIoT Aug. 15, 2021 12650-12657*
- Gao, Y.**, see Yan, X., *JIoT Sept. 15, 2021 14127-14140*
- Gao, Y.**, Lin, H., Chen, Y., and Liu, Y., Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis; *JIoT Nov. 1, 2021 15785-15795*
- Gao, Z.**, see Su, Y., *JIoT Jan. 15, 2021 791-801*

- Gao, Z.**, Gao, Y., Wang, S., Li, D., and Xu, Y., CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization; *JIoT March 1, 2021* 3422-3437
- Gao, Z.**, see Li, Y., *JIoT March 15, 2021* 4035-4062
- Gao, Z.**, Liu, A., Han, C., and Liang, X., Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks; *JIoT June 15, 2021* 9981-9994
- Gao, Z.**, see Na, Z., *JIoT Oct. 15, 2021* 15041-15048
- Gao, Z.**, see Xu, C., *JIoT Dec. 1, 2021* 16902-16910
- Garcia, K.**, see Deese, A.S., *JIoT Jan. 1, 2021* 222-231
- Garcia Sanchez, S.**, and Chowdhury, K.R., Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection ; *JIoT June 15, 2021* 9838-9854
- Garcia-Lozano, M.**, see Perez-Diaz-de-Cerio, D., *JIoT Feb. 15, 2021* 2558-2573
- Garcia-Ortiz, A.**, see Yu, W., *JIoT May 1, 2021* 7638-7648
- Garcia-Vidal, J.**, see Ferrer-Cid, P., *JIoT Sept. 1, 2021* 13652-13663
- Garg, H.K.**, see Zhao, Y., *JIoT Jan. 1, 2021* 393-406
- Garg, S.**, see Liu, R.W., *JIoT April 1, 2021* 5374-5385
- Garg, S.**, see Liu, Y., *JIoT April 15, 2021* 6348-6358
- Garg, S.**, see Wang, X., *JIoT July 1, 2021* 10288-10298
- Garg, S.**, see Haghighi, M.S., *JIoT Aug. 15, 2021* 12716-12723
- Garg, S.**, see Lin, H., *JIoT Nov. 1, 2021* 15683-15693
- Garg, S.**, see Lim, W.Y.B., *JIoT Dec. 1, 2021* 16853-16862
- Garmaroodi, M.S.S.**, Farivar, F., Haghighi, M.S., Shoorehdeli, M.A., and Jolfaei, A., Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System; *JIoT July 1, 2021* 10280-10287
- Garrido-Hidalgo, C.**, Haxhibeqiri, J., Moons, B., Hoebcke, J., Olivares, T., Ramirez, F.J., and Fernandez-Caballero, A., LoRaWAN Scheduling: From Concept to Implementation; *JIoT Aug. 15, 2021* 12919-12933
- Gayathri, N.B.**, see Thumbur, G., *JIoT Feb. 1, 2021* 1908-1920
- Ge, C.**, Zhou, L., Hancke, G.P., and Su, C., A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks; *JIoT Aug. 15, 2021* 12481-12489
- Ge, N.**, see Cao, J., *JIoT March 1, 2021* 3758-3773
- Ge, N.**, see Wei, T., *JIoT June 1, 2021* 8910-8934
- Ge, N.**, see Fang, X., *JIoT Sept. 15, 2021* 14399-14417
- Ge, Q.**, see Jiang, H., *JIoT June 1, 2021* 9450-9459
- Ge, S.S.**, see Bai, X., *JIoT March 1, 2021* 3730-3742
- Ge, X.**, Yu, J., Chen, F., Kong, F., and Wang, H., Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data; *JIoT Aug. 15, 2021* 12902-12918
- Ge, X.**, see Peng, H., *JIoT Dec. 15, 2021* 17356-17371
- Geman, O.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021* 15919-15928
- Geng, B.**, Li, Q., and Varshney, P.K., Utility-Theory-Based Optimal Resource Consumption for Inference in IoT Systems; *JIoT Aug. 1, 2021* 12279-12288
- Geng, S.**, see Cai, X., *JIoT June 15, 2021* 9645-9653
- Geng, Y.**, see Ma, K., *JIoT Sept. 1, 2021* 13343-13354
- Gero, B.P.**, see Pelle, I., *JIoT May 15, 2021* 7954-7972
- Gesbert, D.**, see Esrafilian, O., *JIoT June 15, 2021* 9894-9904
- Ghaffar, Z.**, see Saleem, M.A., *JIoT Nov. 15, 2021* 16613-16622
- Ghahramani, M.**, Javidan, R., Shojafar, M., Taheri, R., Alazab, M., and Tafazolli, R., RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack; *JIoT March 1, 2021* 3619-3635
- Ghanami, F.**, Hodontani, G.A., Vucetic, B., and Shirvanimoghaddam, M., Performance Analysis and Optimization of NOMA With HARQ for Short Packet Communications in Massive IoT; *JIoT March 15, 2021* 4736-4748
- Ghannouchi, F.M.**, see Li, Y., *JIoT March 15, 2021* 4035-4062
- Ghias, A.M.Y.M.**, see Mollah, M.B., *JIoT Jan. 1, 2021* 18-43
- Ghoneim, A.**, see Masud, M., *JIoT Nov. 1, 2021* 15694-15703
- Ghorbani, A.**, see Mahdikhani, H., *JIoT March 15, 2021* 4762-4774
- Ghorbani, A.A.**, see Zhang, X., *JIoT July 15, 2021* 11758-11772
- Ghosh, U.**, see Liao, Z., *JIoT April 1, 2021* 5298-5308
- Ghubaish, A.**, Salman, T., Zolanvari, M., Unal, D., Al-Ali, A., and Jain, R., Recent Advances in the Internet-of-Medical-Things (IoMT) Systems Security; *JIoT June 1, 2021* 8707-8718
- Giannakis, G.B.**, see Xiong, M., *JIoT Feb. 15, 2021* 2875-2885
- Giannakis, G.B.**, see Faulkner, E., *JIoT June 1, 2021* 9206-9218
- Gianoli, L.G.**, see Costa, L.R., *JIoT May 1, 2021* 7316-7332
- Gidlund, M.**, see Farag, H., *JIoT Feb. 1, 2021* 1871-1882
- Gidlund, M.**, see Beltramelli, L., *JIoT May 15, 2021* 7912-7924
- Giraldo, J.A.**, see Oroza, C.A., *JIoT Dec. 15, 2021* 17429-17435
- Giuliano, R.**, see Bianco, G.M., *JIoT Feb. 1, 2021* 1985-1999
- Goh, H.H.**, see Liu, H., *JIoT Dec. 1, 2021* 17100-17110
- Goh, Y.**, see Yun, J., *JIoT Jan. 15, 2021* 708-722
- Golmie, N.**, see Liang, F., *JIoT May 15, 2021* 8210-8222
- Golmie, N.**, see Liu, X., *JIoT Aug. 1, 2021* 12163-12175
- Gomes, P.**, see Magaia, N., *JIoT Nov. 15, 2021* 16452-16472
- Gomez, D.M.**, see Kanapram, D.T., *JIoT March 1, 2021* 3224-3241
- Gondim Santos, A.**, see Freitas de Araujo-Filho, P., *JIoT April 15, 2021* 6247-6256
- Gong, B.**, see Chen, S., *JIoT March 1, 2021* 3276-3286
- Gong, B.**, see Yu, D., *JIoT Oct. 15, 2021* 15160-15169
- Gong, B.**, Liu, J., and Guo, S., A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification; *JIoT Nov. 1, 2021* 16121-16141
- Gong, C.**, see Wu, S., *JIoT June 15, 2021* 10085-10102
- Gong, H.**, see Yang, M., *JIoT Jan. 1, 2021* 370-380
- Gong, H.**, see Zhang, J., *JIoT Feb. 15, 2021* 3027-3041
- Gong, H.**, see Mo, Y., *JIoT Sept. 15, 2021* 14039-14050
- Gong, J.**, see Li, R., *JIoT Oct. 1, 2021* 14471-14484
- Gong, L.**, see Ding, Y., *JIoT Feb. 1, 2021* 1504-1518
- Gong, L.**, see Zuo, X., *JIoT March 15, 2021* 4590-4603
- Gong, S.**, see Zhu, Y., *JIoT March 1, 2021* 3689-3704
- Gong, S.**, Yang, Z., Xing, C., An, J., and Hanzo, L., Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts; *JIoT May 15, 2021* 8585-8602
- Gong, S.**, see Liu, H., *JIoT Oct. 1, 2021* 14458-14470
- Gong, X.**, see Yu, S., *JIoT Feb. 15, 2021* 2238-2251
- Gong, X.**, see Yang, S., *JIoT Dec. 1, 2021* 17186-17198
- Gong, Y.**, see Huang, C., *JIoT June 15, 2021* 10198-10208
- Gong, Y.**, see Lu, W., *JIoT Oct. 15, 2021* 15070-15080
- Gong, Z.**, see Zhao, L., *JIoT April 1, 2021* 5574-5584
- Gonzalez-Vidal, A.**, Rathore, P., Rao, A.S., Mendoza-Bernal, J., Palaniswami, M., and Skarmeta-Gomez, A.F., Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications; *JIoT Nov. 1, 2021* 16108-16120
- Goodarzi, M.**, see Firouzi, F., *JIoT Aug. 15, 2021* 12826-12846
- Gopala Krishna, D.N.**, see Hassija, V., *JIoT Feb. 15, 2021* 2409-2418
- Gope, P.**, see Verma, G.K., *JIoT June 1, 2021* 9305-9316
- Gopikrishnan, S.**, Priakanth, P., Srivastava, G., and Fortino, G., EWPS: Emergency Data Communication in the Internet of Medical Things; *JIoT July 15, 2021* 11345-11356
- Gordon, T.**, see Yang, F., *JIoT June 15, 2021* 10170-10186
- Gorgonio, K.C.**, see Valadares, D.C.G., *JIoT Dec. 1, 2021* 17199-17210
- Gorlatova, M.**, see Lan, G., *JIoT Sept. 15, 2021* 14110-14126
- Goss, A.**, see Cascales, J.P., *JIoT Dec. 15, 2021* 17557-17567
- Goswami, P.**, see Mukherjee, A., *JIoT April 1, 2021* 5194-5201
- Goteng, G.L.**, see Mamvong, J.N., *JIoT April 1, 2021* 5498-5509
- Goudarzi, S.**, Anisi, M.H., Ahmadi, H., and Musavian, L., Dynamic Resource Allocation Model for Distribution Operations Using SDN; *JIoT Jan. 15, 2021* 976-988
- Gouissem, A.**, Abualsaud, K., Yaacoub, E., Khattab, T., and Guizani, M., Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks; *JIoT Dec. 1, 2021* 16880-16893
- Gouskova, N.A.**, see Zhou, J., *JIoT Nov. 1, 2021* 15818-15828
- Goya, J.**, see Figueroa-Lorenzo, S., *JIoT Sept. 1, 2021* 13306-13315
- Goyal, A.**, see Chamola, V., *JIoT Nov. 1, 2021* 16047-16071
- Granelli, F.**, see Arzo, S.T., *JIoT Aug. 1, 2021* 12021-12045
- Grauwin, L.**, see Gu, X., *JIoT Sept. 1, 2021* 13209-13221
- Gravina, R.**, see Marques, J.A.L., *JIoT Dec. 1, 2021* 16814-16824
- Greenfield, D.A.**, see Cascales, J.P., *JIoT Dec. 15, 2021* 17557-17567
- Griffith, D.**, see Liang, F., *JIoT May 15, 2021* 8210-8222

- Griffith, D.**, see Liu, X., *JIoT Aug. 1*, 2021 12163-12175
- Grimaldi, S.**, see Farag, H., *JIoT Feb. 1*, 2021 1871-1882
- Grise, K.**, see Firouzi, F., *JIoT Aug. 15*, 2021 12826-12846
- Grover, H.**, Alladi, T., Chamola, V., Singh, D., and Choo, K.R., Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles; *JIoT Oct. 1*, 2021 14787-14796
- Gu, B.**, Zhang, X., Lin, Z., and Alazab, M., Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things; *JIoT March 1*, 2021 3066-3074
- Gu, H.**, see Zheng, D., *JIoT May 1*, 2021 7140-7151
- Gu, H.**, see Fu, S., *JIoT June 15*, 2021 10209-10219
- Gu, S.**, Luo, X., Guo, D., Ren, B., Tang, G., Xie, J., and Sun, Y., Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing; *JIoT Feb. 15*, 2021 2135-2149
- Gu, T.**, see Xu, D., *JIoT Feb. 1*, 2021 1519-1532
- Gu, T.**, see Yu, B., *JIoT Sept. 15*, 2021 13900-13913
- Gu, W.**, see Zhu, L., *JIoT April 15*, 2021 6828-6839
- Gu, X.**, Grauwlin, L., Dousset, D., Hemour, S., and Wu, K., Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning; *JIoT Sept. 1*, 2021 13209-13221
- Gu, X.**, see Jia, M., *JIoT Oct. 15*, 2021 15205-15215
- Gu, Y.**, see Cao, B., *JIoT March 1*, 2021 3099-3107
- Gu, Y.**, Jiao, Y., Xu, X., and Yu, Q., Request-Response and Censoring-Based Energy-Efficient Decentralized Change-Point Detection With IoT Applications; *JIoT April 15*, 2021 6771-6788
- Gu, Y.**, Yao, Y., Li, C., Xia, B., Xu, D., and Zhang, C., Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks; *JIoT Sept. 15*, 2021 14051-14065
- Gu, Z.**, see Zhang, J., *JIoT Feb. 15*, 2021 3027-3041
- Guan, C.**, see Yu, B., *JIoT Sept. 15*, 2021 13900-13913
- Guan, D.**, see Li, G., *JIoT June 1*, 2021 9244-9256
- Guan, D.**, see Lin, M., *JIoT June 15*, 2021 10187-10197
- Guan, H.**, see Han, G., *JIoT Jan. 15*, 2021 684-694
- Guan, J.**, see Liu, Y., *JIoT May 15*, 2021 8616-8631
- Guan, L.**, see Zhou, W., *JIoT July 15*, 2021 11621-11639
- Guan, Q.**, see Chen, W., *JIoT Aug. 1*, 2021 12398-12409
- Guan, X.**, see Luo, X., *JIoT Jan. 15*, 2021 657-671
- Guan, X.**, see Huang, C., *JIoT March 15*, 2021 4291-4304
- Guan, X.**, see Wang, X., *JIoT May 15*, 2021 8464-8473
- Guan, X.**, see Luo, W., *JIoT May 15*, 2021 7833-7848
- Guan, X.**, see Fang, D., *JIoT May 15*, 2021 8557-8569
- Guan, X.**, see Lyu, L., *JIoT May 15*, 2021 7889-7901
- Guan, X.**, see Fang, D., *JIoT June 15*, 2021 9654-9663
- Guan, X.**, see Yu, L., *JIoT Aug. 1*, 2021 12046-12063
- Guan, X.**, see Ma, K., *JIoT Sept. 1*, 2021 13343-13354
- Guan, X.**, see Yan, J., *JIoT Sept. 15*, 2021 14338-14354
- Guan, X.**, see Zhao, H., *JIoT Sept. 15*, 2021 14094-14109
- Guan, X.**, see Liu, P., *JIoT Nov. 15*, 2021 16559-16570
- Guan, Y.**, Lu, R., Zheng, Y., Shao, J., and Wei, G., Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities; *JIoT Sept. 15*, 2021 14219-14231
- Guan, Y.**, Lu, R., Zheng, Y., Zhang, S., Shao, J., and Wei, G., Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era; *JIoT Nov. 15*, 2021 16243-16255
- Guan, Y.L.**, see Ayaz, F., *JIoT Feb. 15*, 2021 2468-2482
- Guan, Y.L.**, see Mollah, M.B., *JIoT March 15*, 2021 4157-4185
- Guan, Z.**, see Qi, H., *JIoT March 15*, 2021 4472-4484
- Guan, Z.**, see Yang, W., *JIoT May 15*, 2021 8632-8643
- Gui, G.**, see Wang, J., *JIoT Feb. 1*, 2021 1883-1895
- Gui, G.**, see Jogunola, O., *JIoT March 15*, 2021 4211-4227
- Gui, G.**, see Popoola, S.I., *JIoT March 15*, 2021 4944-4956
- Gui, X.**, see Zhang, K., *JIoT April 15*, 2021 6709-6719
- Guizani, M.**, see Han, G., *JIoT Jan. 15*, 2021 684-694
- Guizani, M.**, see Su, Y., *JIoT Jan. 15*, 2021 791-801
- Guizani, M.**, see Sun, G., *JIoT Feb. 1*, 2021 1971-1984
- Guizani, M.**, see Yang, G., *JIoT Feb. 15*, 2021 2483-2493
- Guizani, M.**, see Qolomany, B., *JIoT Feb. 15*, 2021 2943-2958
- Guizani, M.**, see Hassija, V., *JIoT Feb. 15*, 2021 2409-2418
- Guizani, M.**, see Shafiq, M., *JIoT March 1*, 2021 3242-3254
- Guizani, M.**, see Chhikara, P., *JIoT March 15*, 2021 4448-4460
- Guizani, M.**, see Abdulrahman, S., *JIoT April 1*, 2021 5476-5497
- Guizani, M.**, see Yu, H., *JIoT April 1*, 2021 5722-5735
- Guizani, M.**, see Mumtaz, S., *JIoT April 1*, 2021 5111-5113
- Guizani, M.**, see Mohammed, I., *JIoT April 1*, 2021 5938-5952
- Guizani, M.**, see Saria Allahham, M., *JIoT April 15*, 2021 6454-6468
- Guizani, M.**, see Chhikara, P., *JIoT April 15*, 2021 6949-6962
- Guizani, M.**, see Lu, H., *JIoT April 15*, 2021 6140-6142
- Guizani, M.**, see Yang, W., *JIoT May 15*, 2021 8632-8643
- Guizani, M.**, see Zhang, W., *JIoT May 15*, 2021 8119-8132
- Guizani, M.**, see Niu, W., *JIoT June 15*, 2021 9905-9919
- Guizani, M.**, see Li, K., *JIoT June 15*, 2021 9787-9799
- Guizani, M.**, see Yang, X., *JIoT Aug. 15*, 2021 12968-12982
- Guizani, M.**, see Anbalagan, S., *JIoT Sept. 15*, 2021 13950-13957
- Guizani, M.**, see Chhikara, P., *JIoT Oct. 15*, 2021 15456-15467
- Guizani, M.**, see Chamola, V., *JIoT Nov. 1*, 2021 16047-16071
- Guizani, M.**, see Awad Abdellatif, A., *JIoT Nov. 1*, 2021 15762-15775
- Guizani, M.**, see Awan, K.A., *JIoT Nov. 1*, 2021 15672-15682
- Guizani, M.**, see Elayan, H., *JIoT Dec. 1*, 2021 16749-16757
- Guizani, M.**, see Lim, W.Y.B., *JIoT Dec. 1*, 2021 16853-16862
- Guizani, M.**, see Gouissem, A., *JIoT Dec. 1*, 2021 16880-16893
- Guizani, N.**, see Almogren, A., *JIoT March 15*, 2021 4485-4497
- Guizani, N.**, see Zhou, R., *JIoT April 15*, 2021 6425-6436
- Guizani, N.**, see Hassija, V., *JIoT April 15*, 2021 6222-6246
- Gulliver, T.A.**, see Xu, L., *JIoT March 1*, 2021 3524-3533
- Gulliver, T.A.**, see Xu, L., *JIoT Sept. 1*, 2021 13355-13366
- Gunes, M.H.**, see Charyyev, B., *JIoT Feb. 1*, 2021 1272-1281
- Guo, B.**, see Guo, Z., *JIoT Jan. 1*, 2021 512-527
- Guo, B.**, see Yang, J., *JIoT April 15*, 2021 6416-6424
- Guo, B.**, see Chen, C., *JIoT May 1*, 2021 7531-7545
- Guo, B.**, see Han, L., *JIoT Sept. 15*, 2021 13914-13925
- Guo, D.**, see Gu, S., *JIoT Feb. 15*, 2021 2135-2149
- Guo, D.**, see Cao, X., *JIoT March 15*, 2021 4526-4539
- Guo, D.**, see Zhang, X., *JIoT April 15*, 2021 7009-7023
- Guo, D.**, see Yan, Y., *JIoT May 15*, 2021 8159-8172
- Guo, D.**, Cao, K., Xiong, J., Ma, D., and Zhao, H., A Lightweight Key Generation Scheme for the Internet of Things; *JIoT Aug. 1*, 2021 12137-12149
- Guo, D.**, see Li, J., *JIoT Sept. 1*, 2021 13183-13195
- Guo, D.**, see Yuan, H., *JIoT Oct. 1*, 2021 14985-14998
- Guo, D.**, see Qiu, G., *JIoT Nov. 1*, 2021 16165-16180
- Guo, F.**, Yu, F.R., Zhang, H., Li, X., Ji, H., and Leung, V.C.M., Enabling Massive IoT Toward 6G: A Comprehensive Survey; *JIoT Aug. 1*, 2021 11891-11915
- Guo, F.**, Xu, B., Xing, L., Zhang, W., Wen, C., and Yu, L., An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid; *JIoT Oct. 1*, 2021 15024-15036
- Guo, H.**, Liu, A., and Lau, V.K.N., Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis; *JIoT Jan. 1*, 2021 197-210
- Guo, H.**, He, C., Han, L., Chen, N., and Wang, Z.J., OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network; *JIoT March 15*, 2021 4329-4338
- Guo, J.**, Ding, X., and Wu, W., A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City; *JIoT Feb. 1*, 2021 2040-2050
- Guo, J.**, see Liu, Z., *JIoT April 1*, 2021 5386-5407
- Guo, J.**, Carrillo, D., Tang, S., Chen, Q., Yang, Q., Fu, S., Wang, X., Wang, N., and Palacharla, P., CoFF: Cooperative Spatial Feature Fusion for 3-D Object Detection on Autonomous Vehicles; *JIoT July 15*, 2021 11078-11087
- Guo, J.**, see Zhou, Q., *JIoT Aug. 1*, 2021 11916-11934
- Guo, J.**, see Wu, F., *JIoT Oct. 15*, 2021 15216-15227
- Guo, K.**, see Zhang, K., *JIoT Aug. 1*, 2021 11935-11959
- Guo, K.**, Hu, B., Ma, J., Ren, S., Tao, Z., and Zhang, J., Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network; *JIoT Aug. 15*, 2021 12623-12637
- Guo, L.**, see Su, Y., *JIoT March 1*, 2021 3653-3664

- Guo, L.**, Chen, Z., Zhang, D., Liu, K., and Pan, J., Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks; *JIoT March 1, 2021 3851-3863*
- Guo, L.**, see Han, P., *JIoT July 1, 2021 10557-10572*
- Guo, L.**, see Lin, P., *JIoT Nov. 1, 2021 15749-15761*
- Guo, L.**, see Li, X., *JIoT Nov. 15, 2021 16598-16612*
- Guo, L.Z.**, see Ning, W., *JIoT Aug. 15, 2021 12550-12558*
- Guo, Q.**, see Han, H., *JIoT Feb. 15, 2021 3042-3052*
- Guo, Q.**, see Jia, M., *JIoT Oct. 15, 2021 15205-15215*
- Guo, R.**, see Tian, J., *JIoT Jan. 15, 2021 1001-1015*
- Guo, R.**, Yang, G., Shi, H., Zhang, Y., and Zheng, D., O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System; *JIoT June 1, 2021 8949-8963*
- Guo, S.**, see Xi, Z., *JIoT Feb. 1, 2021 1651-1661*
- Guo, S.**, see Chen, C., *JIoT May 1, 2021 7531-7545*
- Guo, S.**, see Yang, L., *JIoT May 15, 2021 8107-8118*
- Guo, S.**, see Ma, M., *JIoT Aug. 1, 2021 11877-11890*
- Guo, S.**, see Zhou, Q., *JIoT Aug. 1, 2021 11916-11934*
- Guo, S.**, see Qiu, C., *JIoT Aug. 15, 2021 12694-12704*
- Guo, S.**, see Zhang, Y., *JIoT Oct. 15, 2021 15500-15511*
- Guo, S.**, see Gong, B., *JIoT Nov. 1, 2021 16121-16141*
- Guo, W.**, Zhang, H., and Huang, C., Energy Efficiency of Two-Way Communications Under Various Duplex Modes; *JIoT Feb. 1, 2021 1921-1933*
- Guo, W.**, Tian, W., Ye, Y., Xu, L., and Wu, K., Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning ; *JIoT March 1, 2021 3576-3586*
- Guo, W.**, see Yu, Z., *JIoT Aug. 15, 2021 12934-12946*
- Guo, X.**, see Pu, Z., *JIoT Jan. 1, 2021 474-486*
- Guo, X.**, He, Y., Zheng, X., Yu, Z., and Liu, Y., LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping; *JIoT April 15, 2021 6665-6676*
- Guo, X.**, Li, B., Zhai, D., and Zhang, R., Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes; *JIoT Dec. 15, 2021 17802-17816*
- Guo, Y.**, see Zhang, C., *JIoT April 15, 2021 6624-6636*
- Guo, Y.**, see Wu, M., *JIoT July 1, 2021 10639-10651*
- Guo, Y.**, Li, L., and Liu, B., Shadow: A Lightweight Block Cipher for IoT Nodes; *JIoT Aug. 15, 2021 13014-13023*
- Guo, Y.**, see Xu, S., *JIoT Nov. 1, 2021 15990-16001*
- Guo, Y.**, see Wang, Q., *JIoT Nov. 1, 2021 16153-16164*
- Guo, Y.**, see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Guo, Y.**, see Wang, Q., *JIoT Nov. 1, 2021 15953-15964*
- Guo, Z.**, Peng, J., Xu, W., Liang, W., Wu, W., Xu, Z., Guo, B., and Ivan Wu, Y., Minimizing Redundant Sensing Data Transmissions in Energy-Harvesting Sensor Networks via Exploring Spatial Data Correlations; *JIoT Jan. 1, 2021 512-527*
- Guo, Z.**, see Wang, H., *JIoT April 1, 2021 5230-5239*
- Guo, Z.**, Shen, Y., Bashir, A.K., Imran, M., Kumar, N., Zhang, D., and Yu, K., Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications; *JIoT June 15, 2021 9549-9558*
- Gupta, B.B.**, see Stergiou, C.L., *JIoT April 1, 2021 5164-5171*
- Gupta, B.B.**, see Masud, M., *JIoT Nov. 1, 2021 15694-15703*
- Gupta, D.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021 15919-15928*
- Gupta, N.**, Jati, A., and Chattopadhyay, A., MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT; *JIoT May 1, 2021 7182-7191*
- Gupta, S.**, see Chamola, V., *JIoT Nov. 1, 2021 16047-16071*
- Gupta, S.K.**, see Pinrod, V., *JIoT March 15, 2021 5009-5022*
- Gupta, V.**, see Hassija, V., *JIoT April 15, 2021 6222-6246*
- Gurbilek, G.**, see Koca, M., *JIoT Jan. 1, 2021 179-186*
- Gurtov, A.**, see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
- Gurusamy, M.**, see Sudheera, K.L.K., *JIoT April 15, 2021 6591-6607*
- Gurusamy, M.**, see Chakraborty, B., *JIoT July 15, 2021 11052-11064*
- Haddadpajouh, H.**, Mohtadi, A., Dehghantanaha, A., Karimipour, H., Lin, X., and Choo, K.R., A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer; *JIoT March 15, 2021 4540-4547*
- Hafid, A.S.**, see Martinez, I., *JIoT Feb. 15, 2021 2494-2516*
- Haghighatdoost, V.**, Khorsandi, S., and Ahmadi, H., Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing; *JIoT April 1, 2021 5710-5721*
- Haghighi, M.S.**, see Kouroshnezhad, S., *JIoT April 1, 2021 5202-5210*
- Haghighi, M.S.**, see Garmaroodi, M.S.S., *JIoT July 1, 2021 10280-10287*
- Haghighi, M.S.**, Ebrahimi, M., Garg, S., and Jolfaei, A., Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture; *JIoT Aug. 15, 2021 12716-12723*
- Hagos, D.H.**, Yazidi, A., Kure, O., and Engelstad, P.E., A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature; *JIoT March 1, 2021 3534-3553*
- Hahm, S.**, Kim, J., Jeong, A., Yi, H., Chang, S., Kishore, S.N., Chauhan, A., and Cherian, S.P., Reliable Real-Time Operating System for IoT Devices; *JIoT March 1, 2021 3705-3716*
- Hakak, S.**, see Khan, W.Z., *JIoT May 15, 2021 7768-7788*
- Hallstrom, J.O.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Hamdan, M.Q.**, see Shi, Y., *JIoT Dec. 15, 2021 17261-17274*
- Hamdi, K.A.**, see Shi, Y., *JIoT Dec. 15, 2021 17261-17274*
- Hamdi, M.**, see Alwarafy, A., *JIoT March 15, 2021 4004-4022*
- Hammad, M.**, see Zhang, W., *JIoT May 15, 2021 8119-8132*
- Hammoudeh, M.**, see Popoola, S.I., *JIoT March 15, 2021 4944-4956*
- Hammouti, H.E.**, Hamza, D., Shihada, B., Alouini, M., and Shamma, J.S., The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs; *JIoT Sept. 15, 2021 14066-14079*
- Hamouda, W.**, see Bariah, L., *JIoT April 1, 2021 5129-5140*
- Hamza, D.**, see Hammouti, H.E., *JIoT Sept. 15, 2021 14066-14079*
- Han, C.**, see Yu, F., *JIoT Feb. 1, 2021 1259-1271*
- Han, C.**, see Gao, Z., *JIoT June 15, 2021 9981-9994*
- Han, C.**, Chen, L., and Wang, W., Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT; *JIoT Sept. 1, 2021 13555-13566*
- Han, D.**, see Kim, M., *JIoT Aug. 1, 2021 12375-12383*
- Han, G.**, Wang, H., Guan, H., and Guizani, M., A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things; *JIoT Jan. 15, 2021 684-694*
- Han, G.**, see Zhang, W., *JIoT Feb. 15, 2021 2354-2363*
- Han, G.**, see Zhang, J., *JIoT March 15, 2021 4403-4416*
- Han, G.**, see Yang, Z., *JIoT April 1, 2021 5149-5163*
- Han, G.**, Tu, J., Liu, L., Martinez-Garcia, M., and Peng, Y., Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT; *JIoT April 1, 2021 5219-5229*
- Han, G.**, see Song, C., *JIoT May 1, 2021 7510-7520*
- Han, G.**, see Qian, Y., *JIoT May 1, 2021 7676-7690*
- Han, G.**, see Liao, Z., *JIoT May 1, 2021 7575-7588*
- Han, G.**, see Yang, F., *JIoT Aug. 15, 2021 13095-13114*
- Han, G.**, see Zhang, F., *JIoT Sept. 15, 2021 14156-14170*
- Han, G.**, Liao, Z., Martinez-Garcia, M., Zhang, Y., and Peng, Y., Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things; *JIoT Dec. 15, 2021 17747-17761*
- Han, H.**, Ma, W., Zhou, M., Guo, Q., and Abusorrah, A., A Novel Semi-Supervised Learning Approach to Pedestrian Reidentification; *JIoT Feb. 15, 2021 3042-3052*
- Han, H.**, see Lu, W., *JIoT Oct. 15, 2021 15070-15080*
- Han, J.**, see Liu, Y., *JIoT Feb. 1, 2021 1322-1333*
- Han, J.**, see Cao, X., *JIoT March 15, 2021 4526-4539*
- Han, J.**, Lin, N., Ruan, J., Wang, X., Wei, W., and Lu, H., A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things ; *JIoT June 15, 2021 9683-9696*
- Han, J.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Han, J.**, see Fan, W., *JIoT Dec. 15, 2021 17691-17704*
- Han, K.**, Lee, S., Oh, K., Bae, Y., Jang, H., Lee, J., Lee, W., and Pedram, M., Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes; *JIoT March 15, 2021 4642-4656*

H

Habibi Gharakheili, H., see Chinaei, M.H., *JIoT June 15, 2021 10117-10130*

- Han, K.**, see Song, J., *JIoT May 1, 2021 7649-7660*
- Han, K.**, Yu, S.M., Kim, S., and Ko, S., Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach; *JIoT Oct. 1, 2021 14589-14606*
- Han, L.**, see Guo, H., *JIoT March 15, 2021 4329-4338*
- Han, L.**, see Yu, Z., *JIoT Aug. 15, 2021 12934-12946*
- Han, L.**, Yu, Z., Wang, L., Yu, Z., and Guo, B., Keeping Cell Selection Model Up-to-Date to Adapt to Time-Dependent Environment in Sparse Mobile Crowdsensing; *JIoT Sept. 15, 2021 13914-13925*
- Han, L.**, see Zhang, X., *JIoT Oct. 15, 2021 15107-15116*
- Han, L.**, see Liu, Q., *JIoT Dec. 1, 2021 17014-17028*
- Han, P.**, Liu, Y., and Guo, L., Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application; *JIoT July 1, 2021 10557-10572*
- Han, Q.**, see Pang, J., *JIoT March 1, 2021 3088-3098*
- Han, R.**, Wang, J., Bai, L., Liu, J., and Choi, J., Age of Information and Performance Analysis for UAV-Aided IoT Systems; *JIoT Oct. 1, 2021 14447-14457*
- Han, S.**, see Xiang, Z., *JIoT April 1, 2021 5697-5709*
- Han, S.**, see Faulkner, E., *JIoT June 1, 2021 9206-9218*
- Han, T.**, Muhammad, K., Hussain, T., Lloret, J., and Baik, S.W., An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks; *JIoT March 1, 2021 3170-3179*
- Han, T.**, see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
- Han, Z.**, see Zhang, J., *JIoT Jan. 1, 2021 244-261*
- Han, Z.**, see Chen, Y., *JIoT Jan. 1, 2021 85-111*
- Han, Z.**, see Chen, D., *JIoT Jan. 15, 2021 813-828*
- Han, Z.**, see Zhuang, Z., *JIoT Feb. 15, 2021 2208-2225*
- Han, Z.**, see Zhang, Y., *JIoT March 1, 2021 3786-3800*
- Han, Z.**, see Zhu, Y., *JIoT May 1, 2021 7126-7139*
- Han, Z.**, see Kang, Y., *JIoT May 15, 2021 8488-8503*
- Han, Z.**, see Fang, D., *JIoT May 15, 2021 8557-8569*
- Han, Z.**, see Wang, T., *JIoT June 1, 2021 9014-9029*
- Han, Z.**, see Tang, Q., *JIoT June 1, 2021 9164-9176*
- Han, Z.**, see Zhang, Q., *JIoT June 15, 2021 9995-10009*
- Han, Z.**, see Zhang, Q., *JIoT June 15, 2021 10071-10084*
- Han, Z.**, see Jia, Z., *JIoT June 15, 2021 9814-9826*
- Han, Z.**, see Li, J., *JIoT June 15, 2021 10052-10070*
- Han, Z.**, see Chen, D., *JIoT July 15, 2021 11415-11426*
- Han, Z.**, see Tong, J., *JIoT Aug. 1, 2021 11807-11821*
- Han, Z.**, see Cao, X., *JIoT Sept. 15, 2021 14171-14186*
- Han, Z.**, see Chen, D., *JIoT Nov. 15, 2021 16301-16312*
- Han, Z.**, see Xu, H., *JIoT Dec. 15, 2021 17678-17690*
- Han, Z.**, see Tian, W., *JIoT Dec. 15, 2021 17372-17381*
- Han, Z.**, see Dang, T.N., *JIoT Dec. 15, 2021 17382-17394*
- Hancke, G.P.**, see Yang, A., *JIoT July 15, 2021 11607-11620*
- Hancke, G.P.**, see Ge, C., *JIoT Aug. 15, 2021 12481-12489*
- Hanif, M.**, and Nguyen, H.H., Slope-Shift Keying LoRa-Based Modulation; *JIoT Jan. 1, 2021 211-221*
- Hanif, M.**, and Nguyen, H.H., Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation; *JIoT Dec. 15, 2021 17611-17621*
- Hanzo, L.**, see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
- Hanzo, L.**, see Gong, S., *JIoT May 15, 2021 8585-8602*
- Hanzo, L.**, see Yang, Y., *JIoT Sept. 15, 2021 14276-14286*
- Hao, B.**, see Zhao, Y., *JIoT March 15, 2021 4841-4854*
- Hao, S.**, see Wang, J., *JIoT Jan. 15, 2021 927-940*
- Hao, T.**, see Lin, K., *JIoT April 15, 2021 6565-6577*
- Hao, W.**, see Zhu, Z., *JIoT Feb. 1, 2021 1702-1715*
- Hao, W.**, Sun, G., Zeng, M., Chu, Z., Zhu, Z., Dobre, O.A., and Xiao, P., Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks; *JIoT Aug. 15, 2021 13052-13064*
- Hao, Y.**, see Song, Z., *JIoT Sept. 15, 2021 14202-14218*
- Hasan, O.**, see Prabakaran, B.S., *JIoT Sept. 1, 2021 13251-13265*
- Hasan, R.**, see Hossain, M., *JIoT Jan. 1, 2021 555-571*
- Hasan Mahmoud, A.S.**, see Mahyoub, M., *JIoT May 1, 2021 7152-7169*
- Hashemi, E.**, see Xia, X., *JIoT Oct. 1, 2021 14845-14859*
- Hassan, A.**, see Alghuson, M.K., *JIoT Aug. 1, 2021 12384-12397*
- Hassan, M.M.**, see Miao, Y., *JIoT Feb. 15, 2021 2289-2299*
- Hassan, M.M.**, see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*
- Hassan, M.M.**, Hassan, M.R., Huda, S., and de Albuquerque, V.H.C., A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment; *JIoT June 15, 2021 9611-9621*
- Hassan, M.M.**, see Zhou, P., *JIoT July 1, 2021 10237-10247*
- Hassan, M.M.**, see Chhikara, P., *JIoT Oct. 15, 2021 15456-15467*
- Hassan, M.R.**, see Hassan, M.M., *JIoT June 15, 2021 9611-9621*
- Hassija, V.**, Chamola, V., Gopala Krishna, D.N., Kumar, N., and Guizani, M., A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation; *JIoT Feb. 15, 2021 2409-2418*
- Hassija, V.**, Chamola, V., Gupta, V., Jain, S., and Guizani, N., A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures; *JIoT April 15, 2021 6222-6246*
- Hassija, V.**, see Chamola, V., *JIoT Nov. 1, 2021 16047-16071*
- Hatcher, W.G.**, see Xu, H., *JIoT March 15, 2021 4668-4680*
- Havinga, P.**, see Mijuskovic, A., *JIoT Feb. 1, 2021 1797-1816*
- Hawash, H.**, see Abdel-Basset, M., *JIoT March 15, 2021 4969-4979*
- Hawash, H.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12251-12265*
- Hawash, H.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12422-12435*
- Hawbani, A.**, see Zhao, L., *JIoT Feb. 1, 2021 2066-2077*
- Hawbani, A.**, Wang, X., Al-Dubai, A., Zhao, L., Busaileh, O., Liu, P., and Al-Qaness, M.A.A., A Novel Heuristic Data Routing for Urban Vehicular Ad Hoc Networks; *JIoT June 1, 2021 8976-8989*
- Hawbani, A.**, see Lin, N., *JIoT Sept. 15, 2021 14080-14093*
- Haxhibeqiri, J.**, see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
- Hazra, A.**, Adhikari, M., Amgoth, T., and Srirama, S.N., Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks; *JIoT April 1, 2021 5185-5193*
- He, C.**, see Guo, H., *JIoT March 15, 2021 4329-4338*
- He, C.**, see Li, X., *JIoT Oct. 1, 2021 14959-14970*
- He, D.**, see Wang, J., *JIoT Jan. 1, 2021 458-473*
- He, D.**, see Yang, G., *JIoT Feb. 15, 2021 2483-2493*
- He, D.**, see Li, T., *JIoT May 15, 2021 8387-8398*
- He, D.**, see Xiao, Z., *JIoT Aug. 15, 2021 12658-12668*
- He, D.**, see Peng, C., *JIoT Sept. 15, 2021 14287-14298*
- He, D.**, see Chen, B., *JIoT Oct. 1, 2021 15010-15023*
- He, H.**, see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- He, J.**, see Wang, X., *JIoT May 15, 2021 8464-8473*
- He, J.**, see Chen, X., *JIoT Oct. 15, 2021 15180-15190*
- He, L.**, see Yang, S., *JIoT April 1, 2021 5607-5618*
- He, L.**, see Yang, S., *JIoT Dec. 15, 2021 17320-17332*
- He, N.**, see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- He, Q.**, see Zhao, Y., *JIoT June 15, 2021 10018-10033*
- He, S.**, see Sun, Y., *JIoT Jan. 15, 2021 1197-1210*
- He, S.**, see Sun, Y., *JIoT Jan. 15, 2021 1071-1081*
- He, S.**, see Xiang, C., *JIoT May 15, 2021 8314-8327*
- He, T.**, Chin, K., Soh, S., and Zhang, Z., A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks; *JIoT Oct. 15, 2021 15486-15499*
- He, W.**, Liu, Y., Yao, H., Mai, T., Zhang, N., and Yu, F.R., Distributed Variational Bayes-Based In-Network Security for the Internet of Things; *JIoT April 15, 2021 6293-6304*
- He, X.**, see Yang, G., *JIoT Feb. 15, 2021 2483-2493*
- He, X.**, and Wang, S., Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees; *JIoT Feb. 15, 2021 2722-2735*
- He, Y.**, Wang, Y., Qiu, C., Lin, Q., Li, J., and Ming, Z., Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach; *JIoT Feb. 15, 2021 2226-2237*
- He, Y.**, see Guo, X., *JIoT April 15, 2021 6665-6676*
- He, Y.**, see Yang, L., *JIoT June 1, 2021 8854-8864*
- He, Y.**, see Jiao, J., *JIoT Oct. 1, 2021 14773-14786*
- He, Z.**, see Song, Y., *JIoT March 15, 2021 4250-4274*
- He, Z.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- He, Z.**, Zhang, T., and Lee, R.B., Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems; *JIoT June 15, 2021 9706-9716*
- Heidari, H.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*

- Helou, M.E.**, see Fawaz, H., *JIoT April 1, 2021 5544-5557*
- Hemour, S.**, see Gu, X., *JIoT Sept. 1, 2021 13209-13221*
- Henry, J.**, see Zhu, B., *JIoT March 15, 2021 4868-4881*
- Hentati, A.**, Jaafar, W., Frigon, J., and Ajib, W., Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks; *JIoT March 15, 2021 4920-4930*
- Heo, S.**, see Kim, B., *JIoT April 1, 2021 5645-5656*
- Heo, S.**, Yoo, W., Jang, H., and Chung, J., H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles; *JIoT July 1, 2021 10678-10692*
- Heo, S.**, see Lee, G., *JIoT Nov. 15, 2021 16406-16417*
- Hernandez-Solana, A.**, see Perez-Diaz-de-Cerio, D., *JIoT Feb. 15, 2021 2558-2573*
- Herrera, F.**, see Fortino, G., *JIoT July 1, 2021 10220-10221*
- Herrera, J.L.**, Galan-Jimenez, J., Berrocal, J., and Murillo, J.M., Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications; *JIoT Dec. 1, 2021 17172-17185*
- Hester, J.G.D.**, see Eid, A., *JIoT Oct. 1, 2021 14719-14730*
- Hijdra, M.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Hill, D.J.**, see Zhu, L., *JIoT Feb. 1, 2021 2027-2039*
- Hitchens, M.**, see Thomas, D., *JIoT March 1, 2021 3587-3604*
- Ho, P.**, see Lu, H., *JIoT April 15, 2021 6140-6142*
- Ho, N.V.**, see Thanh, N.H., *JIoT Sept. 1, 2021 13465-13486*
- Hodtani, G.A.**, see Ghanami, F., *JIoT March 15, 2021 4736-4748*
- Hoebeker, J.**, see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
- Hoeller, A.**, see de Jesus, G.G.M., *JIoT April 1, 2021 6053-6061*
- Hollain, S.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Homssi, B.A.**, Al-Hourani, A., Krusevac, Z., and Rowe, W.S.T., Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands; *JIoT March 15, 2021 4461-4471*
- Hong, C.S.**, see Suhail, S., *JIoT Jan. 1, 2021 1-17*
- Hong, C.S.**, see Chen, D., *JIoT July 15, 2021 11415-11426*
- Hong, C.S.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Hong, C.S.**, see Dang, T.N., *JIoT Dec. 15, 2021 17382-17394*
- Hong, Y.**, see Xu, J., *JIoT July 15, 2021 11450-11462*
- Hong, Z.**, see Zhang, W., *JIoT Jan. 15, 2021 750-765*
- Hornung, R.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Hossain, M.**, and Hasan, R., P-HIP: A Lightweight and Privacy-Aware Host Identity Protocol for Internet of Things; *JIoT Jan. 1, 2021 555-571*
- Hossain, M.**, see Kayas, G., *JIoT July 15, 2021 11561-11580*
- Hossain, M.D.**, see Nguyen, T.D.T., *JIoT Feb. 1, 2021 1687-1701*
- Hossain, M.S.**, see Liu, R.W., *JIoT April 1, 2021 5374-5385*
- Hossain, M.S.**, see Liu, Y., *JIoT April 15, 2021 6348-6358*
- Hossain, M.S.**, see Xiao, W., *JIoT April 15, 2021 6305-6312*
- Hossain, M.S.**, see Rahman, A., *JIoT June 15, 2021 9603-9610*
- Hossain, M.S.**, see Wang, X., *JIoT July 1, 2021 10288-10298*
- Hossain, M.S.**, see Rahman, M.A., *JIoT Nov. 1, 2021 15847-15854*
- Hossain, M.S.**, see Lin, H., *JIoT Nov. 1, 2021 15683-15693*
- Hossain, M.S.**, see Muhammad, G., *JIoT Dec. 1, 2021 16894-16901*
- Hosseinabadi, A.A.R.**, see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*
- Hosseinzadeh, M.**, see Sadrishojaei, M., *JIoT July 1, 2021 10652-10664*
- Hossfeld, T.**, see Thanh, N.H., *JIoT Sept. 1, 2021 13465-13486*
- Hou, F.**, see Feng, J., *JIoT June 1, 2021 9407-9421*
- Hou, J.**, see Duan, W., *JIoT April 15, 2021 6154-6166*
- Hou, L.**, see Yang, G., *JIoT Feb. 15, 2021 2483-2493*
- Hou, L.**, Zheng, K., Liu, Z., Xu, X., and Wu, T., Design and Prototype Implementation of a Blockchain-Enabled LoRa System With Edge Computing; *JIoT Feb. 15, 2021 2419-2430*
- Hou, R.**, see Li, L., *JIoT March 15, 2021 4317-4328*
- Hou, R.**, see Xing, G., *JIoT June 1, 2021 9005-9013*
- Hou, W.**, Wen, H., Song, H., Lei, W., and Zhang, W., Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cyber-twin-Based Networks; *JIoT Nov. 15, 2021 16256-16268*
- Hou, X.**, see Hui, S., *JIoT May 1, 2021 7115-7125*
- Hou, Y.**, Xiong, H., Huang, X., and Kumari, S., Certificate-Based Parallel Key-Insulated Aggregate Signature Against Fully Chosen Key Attacks for Industrial Internet of Things; *JIoT June 1, 2021 8935-8948*
- Hou, Y.**, see Xiong, H., *JIoT Nov. 1, 2021 16142-16152*
- Hou, Y.T.**, see Shi, S., *JIoT April 15, 2021 6498-6518*
- Hou, Y.T.**, see Li, C., *JIoT Oct. 1, 2021 14543-14558*
- Houssein, E.H.**, see Younan, M., *JIoT April 1, 2021 5953-5972*
- Hranilovic, S.**, see Majeed, K., *JIoT Oct. 1, 2021 14810-14821*
- Hsieh, C.**, see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Hsu, C.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Hsu, C.**, see Manogaran, G., *JIoT March 1, 2021 3120-3129*
- Hsu, L.**, see Sun, R., *JIoT April 15, 2021 7065-7078*
- Hu, A.**, see Li, G., *JIoT Jan. 1, 2021 357-369*
- Hu, A.**, see Zhou, X., *JIoT July 15, 2021 11276-11289*
- Hu, B.**, see Fang, D., *JIoT June 15, 2021 9654-9663*
- Hu, B.**, see Guo, K., *JIoT Aug. 15, 2021 12623-12637*
- Hu, B.**, see Xu, S., *JIoT Nov. 1, 2021 15990-16001*
- Hu, B.**, see Cai, H., *JIoT Nov. 1, 2021 15829-15838*
- Hu, B.**, see Yang, F., *JIoT Nov. 1, 2021 15892-15905*
- Hu, B.**, see Wang, Q., *JIoT Nov. 1, 2021 15953-15964*
- Hu, B.**, see Hu, X., *JIoT Nov. 1, 2021 15649-15651*
- Hu, C.**, Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs; *JIoT Jan. 15, 2021 941-950*
- Hu, D.**, Huang, G., Tang, D., Zhao, S., and Zheng, H., Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems; *JIoT July 15, 2021 11487-11502*
- Hu, F.**, see Li, S., *JIoT Jan. 15, 2021 989-1000*
- Hu, H.**, Xiong, K., Qu, G., Ni, Q., Fan, P., and Letaief, K.B., AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks; *JIoT Jan. 15, 2021 1211-1223*
- Hu, H.**, see Wang, J., *JIoT Jan. 15, 2021 927-940*
- Hu, H.**, see Luo, Y., *JIoT Feb. 15, 2021 2736-2750*
- Hu, H.**, Jiang, Z., Zhao, Y., Zhang, Y., Wang, H., and Wang, W., Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City; *JIoT June 15, 2021 9539-9548*
- Hu, H.**, see Zhan, C., *JIoT Oct. 15, 2021 15353-15367*
- Hu, H.**, Wang, Q., Hu, R.Q., and Zhu, H., Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting; *JIoT Dec. 15, 2021 17541-17556*
- Hu, J.**, Reed, M., Thomos, N., Al-Naday, M.F., and Yang, K., Securing SDN-Controlled IoT Networks Through Edge Blockchain; *JIoT Feb. 15, 2021 2102-2115*
- Hu, J.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Hu, J.**, see Zhao, H., *JIoT May 15, 2021 8064-8077*
- Hu, J.**, see Tran, N.N., *JIoT June 1, 2021 9422-9435*
- Hu, J.**, see Peng, S., *JIoT July 1, 2021 10815-10829*
- Hu, J.**, see Wang, X., *JIoT July 1, 2021 10288-10298*
- Hu, J.**, see Liang, Y., *JIoT Sept. 1, 2021 13316-13327*
- Hu, J.**, see Lin, H., *JIoT Nov. 1, 2021 15683-15693*
- Hu, L.**, see Miao, Y., *JIoT Feb. 15, 2021 2289-2299*
- Hu, L.**, see Jiang, Y., *JIoT July 1, 2021 10356-10366*
- Hu, L.**, Chen, Z., Dong, Y., Jia, Y., Liang, L., and Wang, M., Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate; *JIoT July 15, 2021 11329-11344*
- Hu, L.**, see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Hu, M.**, see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Hu, Q.**, see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Hu, Q.**, see Huang, C., *JIoT March 15, 2021 4291-4304*
- Hu, Q.**, see Yang, A., *JIoT July 15, 2021 11607-11620*
- Hu, Q.**, Duan, M., Yang, Z., Yu, S., and Xiao, B., Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications; *JIoT Aug. 15, 2021 12782-12791*
- Hu, R.Q.**, see Hu, H., *JIoT Dec. 15, 2021 17541-17556*
- Hu, S.**, see Huang, H., *JIoT Oct. 15, 2021 15081-15095*
- Hu, S.**, see Liu, X., *JIoT Oct. 15, 2021 15049-15058*
- Hu, W.**, see Zhang, J., *JIoT May 1, 2021 7610-7624*
- Hu, W.**, see Li, G., *JIoT June 1, 2021 9244-9256*
- Hu, W.**, see Lan, G., *JIoT Sept. 15, 2021 14110-14126*
- Hu, X.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Hu, X.**, see Wu, Y., *JIoT March 15, 2021 4906-4919*

- Hu, X., *see* Xu, S., *JIoT Nov. 1, 2021 15990-16001*
- Hu, X., *see* Cai, H., *JIoT Nov. 1, 2021 15829-15838*
- Hu, X., *see* Yang, F., *JIoT Nov. 1, 2021 15892-15905*
- Hu, X., Ngai, E.C.H., Castellano, G., Hu, B., Rodrigues, J.J.P.C., and Song, J., Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond" *JIoT Nov. 1, 2021 15649-15651*
- Hu, Y., *see* Chen, Y., *JIoT Feb. 15, 2021 2762-2774*
- Hu, Y., *see* Zhang, D., *JIoT March 1, 2021 3904-3914*
- Hu, Y., *see* Zhang, C., *JIoT March 1, 2021 3157-3169*
- Hu, Y., *see* Ou, Z., *JIoT May 1, 2021 7279-7287*
- Hu, Y., *see* Zhang, H., *JIoT July 1, 2021 10779-10791*
- Hu, Y., *see* Zhang, Y., *JIoT Sept. 15, 2021 13958-13974*
- Hu, Y., *see* Wang, J., *JIoT Oct. 15, 2021 15126-15139*
- Hu, Y.F., *see* Oguntala, G.A., *JIoT July 1, 2021 10953-10962*
- Hu, Z., *see* Gao, J., *JIoT Jan. 1, 2021 428-442*
- Hua, C., *see* Huynh-The, T., *JIoT Feb. 1, 2021 1533-1543*
- Hua, M., Yang, L., Li, C., Zhu, Z., and Lee, I., Bistatic Backscatter Communication: Shunt Network Design; *JIoT May 1, 2021 7691-7705*
- Huang, B., *see* Wu, F., *JIoT Oct. 15, 2021 15216-15227*
- Huang, C., *see* Kristiani, E., *JIoT Jan. 1, 2021 309-319*
- Huang, C., *see* Guo, W., *JIoT Feb. 1, 2021 1921-1933*
- Huang, C., *see* Xiong, M., *JIoT Feb. 15, 2021 2875-2885*
- Huang, C., Zhuang, Y., Liu, H., Li, J., and Wang, W., A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers; *JIoT March 1, 2021 3331-3345*
- Huang, C., Wang, Z., Chen, H., Hu, Q., Zhang, Q., Wang, W., and Guan, X., RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding; *JIoT March 15, 2021 4291-4304*
- Huang, C., *see* Chen, Y., *JIoT April 1, 2021 6089-6100*
- Huang, C., *see* Wang, W., *JIoT April 1, 2021 5274-5284*
- Huang, C., *see* Dou, F., *JIoT April 15, 2021 6519-6535*
- Huang, C., *see* Zhang, X., *JIoT May 15, 2021 8234-8245*
- Huang, C., Chen, G., and Gong, Y., Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning; *JIoT June 15, 2021 10198-10208*
- Huang, C., *see* Cao, X., *JIoT Sept. 15, 2021 14171-14186*
- Huang, C., *see* Wang, Z., *JIoT Sept. 15, 2021 14003-14012*
- Huang, C., *see* Xu, Y., *JIoT Dec. 1, 2021 17161-17171*
- Huang, D., Shi, X., and Zhang, W., False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data; *JIoT Jan. 1, 2021 585-595*
- Huang, E.S., *see* Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Huang, F., *see* Liu, Z., *JIoT April 1, 2021 5386-5407*
- Huang, F., Yang, Y., Zheng, Z., Wu, G., and Mumtaz, S., Recognizing Influential Nodes in Social Networks With Controllability and Observability; *JIoT April 15, 2021 6197-6204*
- Huang, G., *see* Shen, M., *JIoT April 15, 2021 6437-6453*
- Huang, G., Zhang, B., Yao, Z., and Li, C., Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources; *JIoT May 15, 2021 8543-8556*
- Huang, G., *see* Long, Y., *JIoT July 1, 2021 10896-10910*
- Huang, G., *see* Hu, D., *JIoT July 15, 2021 11487-11502*
- Huang, G., *see* Lu, W., *JIoT Oct. 15, 2021 15070-15080*
- Huang, G., *see* Yang, S., *JIoT Dec. 1, 2021 17186-17198*
- Huang, H., *see* Sun, F., *JIoT Feb. 1, 2021 1636-1650*
- Huang, H., *see* Zhao, L., *JIoT March 1, 2021 3211-3223*
- Huang, H., *see* Zhao, L., *JIoT March 1, 2021 3211-3223*
- Huang, H., *see* Zhang, J., *JIoT March 15, 2021 4628-4641*
- Huang, H., *see* Xu, J., *JIoT July 15, 2021 11450-11462*
- Huang, H., *see* Peng, K., *JIoT Aug. 1, 2021 12004-12020*
- Huang, H., Hu, S., Yang, T., and Yuan, C., Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks; *JIoT Oct. 15, 2021 15081-15095*
- Huang, J., Wang, C., Yang, Y., Liu, Y., Sun, J., and Zhang, W., Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios; *JIoT April 1, 2021 5531-5543*
- Huang, J., *see* Liao, Z., *JIoT April 1, 2021 5298-5308*
- Huang, J., *see* Zhou, B., *JIoT May 1, 2021 7203-7213*
- Huang, J., *see* Chang, H., *JIoT June 15, 2021 9865-9877*
- Huang, J., *see* Liao, Z., *JIoT July 1, 2021 10940-10952*
- Huang, J., *see* Wu, L., *JIoT July 15, 2021 11357-11367*
- Huang, J., *see* Yang, L., *JIoT July 15, 2021 11290-11304*
- Huang, J., Li, G., Tian, J., and Li, S., Accurate Interpretation of the Online Learning Model for 6G-Enabled Internet of Things; *JIoT Oct. 15, 2021 15228-15239*
- Huang, K., *see* Rezaeibagha, F., *JIoT May 15, 2021 8056-8063*
- Huang, K., *see* Rezaeibagha, F., *JIoT Dec. 15, 2021 17669-17677*
- Huang, L., *see* Su, Y., *JIoT Jan. 15, 2021 791-801*
- Huang, M., *see* Wang, H., *JIoT April 1, 2021 5230-5239*
- Huang, M., *see* Zhao, Y., *JIoT June 15, 2021 10018-10033*
- Huang, Q., *see* Kang, H., *JIoT Sept. 1, 2021 13503-13515*
- Huang, R., *see* Yu, F., *JIoT Feb. 1, 2021 1259-1271*
- Huang, R., *see* Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
- Huang, R., *see* Li, Y., *JIoT Feb. 15, 2021 2910-2919*
- Huang, R., *see* Wang, C., *JIoT Sept. 15, 2021 14248-14257*
- Huang, R., *see* Li, Y., *JIoT Oct. 15, 2021 15522-15530*
- Huang, S., Lin, C., Xu, W., Gao, Y., Feng, Z., and Zhu, F., Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach; *JIoT Feb. 1, 2021 2051-2065*
- Huang, S., *see* Zhang, W., *JIoT Feb. 15, 2021 2354-2363*
- Huang, S., *see* Li, X., *JIoT Nov. 15, 2021 16598-16612*
- Huang, T., *see* Xie, R., *JIoT Jan. 1, 2021 345-356*
- Huang, W., *see* Li, D., *JIoT May 1, 2021 7229-7240*
- Huang, W., *see* Raut, P., *JIoT Dec. 15, 2021 17655-17668*
- Huang, X., Liu, A., Zhou, H., Yu, K., Wang, W., and Shen, X., FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network; *JIoT Jan. 1, 2021 610-625*
- Huang, X., *see* Yu, F., *JIoT Feb. 1, 2021 1259-1271*
- Huang, X., *see* Lu, Y., *JIoT Feb. 15, 2021 2276-2288*
- Huang, X., *see* Li, D., *JIoT May 1, 2021 7229-7240*
- Huang, X., *see* Hou, Y., *JIoT June 1, 2021 8935-8948*
- Huang, X., *see* Niu, W., *JIoT June 15, 2021 9905-9919*
- Huang, X., *see* Li, L., *JIoT July 1, 2021 10518-10530*
- Huang, X., Xu, K., Chen, Q., and Zhang, J., Delay-Aware Caching in Internet-of-Vehicles Networks; *JIoT July 1, 2021 10911-10921*
- Huang, X., *see* Zhu, F., *JIoT July 15, 2021 11678-11689*
- Huang, X., *see* Zhu, J., *JIoT Sept. 1, 2021 13542-13554*
- Huang, X., *see* Gao, X., *JIoT Oct. 1, 2021 14683-14704*
- Huang, X., *see* Xiong, H., *JIoT Nov. 1, 2021 16142-16152*
- Huang, X., *see* Rezaeibagha, F., *JIoT Dec. 15, 2021 17669-17677*
- Huang, Y., *see* Pang, J., *JIoT March 1, 2021 3088-3098*
- Huang, Y., Qiao, X., Ren, P., Dustdar, S., and Chen, J., EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT; *JIoT May 1, 2021 7288-7302*
- Huang, Y., *see* Yu, W., *JIoT May 1, 2021 7638-7648*
- Huang, Y., *see* Sun, M., *JIoT May 15, 2021 8005-8020*
- Huang, Y., *see* Li, G., *JIoT June 1, 2021 9244-9256*
- Huang, Y., *see* Li, C., *JIoT Oct. 1, 2021 14543-14558*
- Huang, Y., *see* Zhong, Y., *JIoT Oct. 15, 2021 15148-15159*
- Huang, Y., *see* Tang, Y., *JIoT Nov. 1, 2021 16023-16034*
- Huang, Z., Peng, Y., Li, J., Tong, F., Zhu, K., and Peng, L., Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities; *JIoT April 15, 2021 6385-6392*
- Huang, Z., *see* Pal, R., *JIoT May 1, 2021 7360-7371*
- Huang, Z., *see* Li, G., *JIoT June 1, 2021 9244-9256*
- Huang, Z., *see* Pal, R., *JIoT July 15, 2021 11773-11775*
- Huang, Z., *see* Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Huang, Z., *see* Bai, L., *JIoT Dec. 15, 2021 17622-17638*
- Huda, S., *see* Hassan, M.M., *JIoT June 15, 2021 9611-9621*
- Huh, E., *see* Nguyen, T.D.T., *JIoT Feb. 1, 2021 1687-1701*
- Hui, P., *see* Ou, Z., *JIoT May 1, 2021 7279-7287*
- Hui, P., *see* Li, T., *JIoT Dec. 1, 2021 16723-16733*

Hui, S., Wang, Z., Hou, X., Wang, X., Wang, H., Li, Y., and Jin, D., Systematically Quantifying IoT Privacy Leakage in Mobile Networks; *JIoT May 1, 2021 7115-7125*

Humar, I., see Chen, M., *JIoT Dec. 1, 2021 16718-16722*

Hung, H., see Lin, Y., *JIoT April 15, 2021 6893-6903*

Hung, P., see Wu, S., *JIoT Jan. 1, 2021 487-500*

Hung, P.C.K., see Chen, L., *JIoT Aug. 15, 2021 12610-12622*

Huo, D., see Zhou, W., *JIoT July 15, 2021 11621-11639*

Huong, T.T., see Thanh, N.H., *JIoT Sept. 1, 2021 13465-13486*

Huq, K.M.S., see Yang, Z., *JIoT April 1, 2021 5149-5163*

Hussain, R., see Suhail, S., *JIoT Jan. 1, 2021 1-17*

Hussain, R., Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications; *JIoT July 1, 2021 10807-10814*

Hussain, S., Mahmud, U., and Yang, S., Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System; *JIoT June 15, 2021 9484-9494*

Hussain, T., see Han, T., *JIoT March 1, 2021 3170-3179*

Hussain, T., Muhammad, K., Ullah, A., Ser, J.D., Gandomi, A.H., Sajjad, M., Baik, S.W., and de Albuquerque, V.H.C., Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments; *JIoT June 15, 2021 9634-9644*

Hussein, A.R., see Singh, J., *JIoT April 1, 2021 5794-5805*

Huston, D., see Omwenga, M.M., *JIoT July 15, 2021 11594-11606*

Huyh, L.N.T., see Nguyen, T.D.T., *JIoT Feb. 1, 2021 1687-1701*

Huyh-The, T., Hua, C., Tu, N.A., and Kim, D., Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health; *JIoT Feb. 1, 2021 1533-1543*

Huyh-The, T., see Nguyen, T., *JIoT May 1, 2021 7423-7436*

Hwang, I., see You, Y., *JIoT Feb. 15, 2021 2900-2909*

Hwang, J., see Nkenyereye, L., *JIoT July 15, 2021 11233-11248*

Hwang, J., Nkenyereye, L., Sung, N., Kim, J., and Song, J., IoT Service Slicing and Task Offloading for Edge Computing; *JIoT July 15, 2021 11526-11547*

Hwang, K., see Fang, D., *JIoT June 15, 2021 9654-9663*

Hwang, K., see Zhou, P., *JIoT July 1, 2021 10237-10247*

Hwang, K., see Chen, M., *JIoT Dec. 1, 2021 16718-16722*

Hwang, K., see Wang, R., *JIoT Dec. 1, 2021 16825-16834*

Hwang, S.O., see Akleyek, S., *JIoT April 15, 2021 6983-6994*

Hwang, S.O., see Khan, S., *JIoT July 15, 2021 11260-11275*

I

Ibrahim, M.I., Nabil, M., Fouda, M.M., Mahmoud, M.M.E.A., Alasmay, W., and Alsolami, F., Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks; *JIoT Jan. 15, 2021 1243-1258*

Ibrahim, M.I., Mahmoud, M., Fouda, M.M., Alsolami, F., Alasmay, W., and Shen, X., Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning; *JIoT Dec. 1, 2021 17131-17146*

Ibrar, M., see Akbar, A., *JIoT March 1, 2021 3057-3065*

Ibrar, M., Wang, L., Muntean, G., Chen, J., Shah, N., and Akbar, A., IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems; *JIoT March 1, 2021 3130-3142*

Igorevich, K.K., see Chen, X., *JIoT Nov. 1, 2021 15939-15952*

Ikki, S., see Nasraoui, L., *JIoT May 1, 2021 7241-7251*

Ikpehai, A., see Jogunola, O., *JIoT March 15, 2021 4211-4227*

Iliyasu, A.M., see Zhang, W., *JIoT May 15, 2021 8119-8132*

Imani, M.F., see Lan, G., *JIoT Sept. 15, 2021 14110-14126*

Imran, M., see Guo, Z., *JIoT June 15, 2021 9549-9558*

Imran, M., see Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*

Imran, M.A., see Xu, H., *JIoT March 1, 2021 3915-3929*

Imran, M.A., see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*

Inamura, H., see Gao, C., *JIoT April 15, 2021 6313-6323*

Inserra, D., see Li, G., *JIoT June 1, 2021 9244-9256*

Iqbal, A., and Lee, T., Spatiotemporal Medium Access Control for Wireless Powered IoT Networks; *JIoT Oct. 1, 2021 14822-14834*

Iqbal, F., see Altaf, A., *JIoT May 1, 2021 7497-7509*

Iqbal, K., see Khan, N., *JIoT Jan. 1, 2021 596-609*

Iqbal, S., Noor, R.M., Malik, A.W., and Rahman, A.U., Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment; *JIoT Oct. 1, 2021 14746-14755*

Iqbal, W., see Rauf, B., *JIoT April 15, 2021 6359-6371*

Iqbal, W., Abbas, H., Deng, P., Wan, J., Rauf, B., Abbas, Y., and Rashid, I., ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes; *JIoT June 15, 2021 9622-9633*

Isayev, O., see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*

Islam, M.S., see Yuan, Y., *JIoT Aug. 15, 2021 12734-12747*

Islam, S.M.R., see Kayas, G., *JIoT July 15, 2021 11561-11580*

Islam, S.u., see Ali, B., *JIoT March 1, 2021 3822-3830*

Islam, S.u., see Kasi, S.K., *JIoT July 1, 2021 10308-10317*

Islam, S.U., see Awais, M., *JIoT Dec. 1, 2021 16863-16871*

Iturbe, M., see Eceiza, M., *JIoT July 1, 2021 10390-10411*

Ivan Wu, Y., see Guo, Z., *JIoT Jan. 1, 2021 512-527*

Iwabuchi, H., see Zhang, J., *JIoT March 1, 2021 3323-3330*

J

Jaafar, W., see Hentati, A., *JIoT March 15, 2021 4920-4930*

Jaafar, W., and Yanikomeroglu, H., Dynamics of Laser-Charged UAVs: A Battery Perspective; *JIoT July 1, 2021 10573-10582*

Jabbarvaziri, F., Mysore Balasubramanya, N., and Lampe, L., HARQ-Based Grant-Free NOMA for mMTC Uplink; *JIoT May 15, 2021 8372-8386*

Jahromi, A.N., Karimipour, H., Dehghantanha, A., and Choo, K.R., Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems; *JIoT Sept. 1, 2021 13712-13722*

Jain, R., see Ghubaish, A., *JIoT June 1, 2021 8707-8718*

Jain, S., Pattanaik, K.K., Verma, R.K., Bharti, S., and Shukla, A., Delay-Aware Green Routing for Mobile-Sink-Based Wireless Sensor Networks; *JIoT March 15, 2021 4882-4892*

Jain, S., see Hassija, V., *JIoT April 15, 2021 6222-6246*

Jalaian, B.A., see Li, C., *JIoT Oct. 1, 2021 14543-14558*

Jalil Piran, M., see Lin, H., *JIoT Nov. 1, 2021 15683-15693*

Jamalipour, A., see Abkenar, F.S., *JIoT March 1, 2021 3875-3884*

Jamalipour, A., see Ali, M.A., *JIoT June 15, 2021 9855-9864*

Jamalipour, A., see Shakoor, S., *JIoT June 15, 2021 9776-9786*

Jamsa, T., see Jiang, T., *JIoT June 1, 2021 8799-8815*

Jan, M.A., see Akbar, A., *JIoT March 1, 2021 3057-3065*

Jan, M.A., see Khan, F., *JIoT Oct. 1, 2021 14835-14844*

Jang, G., see Lee, C., *JIoT May 15, 2021 8291-8303*

Jang, H., see Han, K., *JIoT March 15, 2021 4642-4656*

Jang, H., see Heo, S., *JIoT July 1, 2021 10678-10692*

Jang, H.S., Jin, H., Jung, B.C., and Quek, T.Q.S., Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks; *JIoT July 15, 2021 11640-11654*

Jang, H.S., Jung, B.C., Quek, T.Q.S., and Sung, D.K., Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks; *JIoT Oct. 15, 2021 15349-15360*

Jarray, A., see Martinez, I., *JIoT Feb. 15, 2021 2494-2516*

Jaseemuddin, M., see Askari, Z., *JIoT Sept. 15, 2021 13975-13990*

Jati, A., see Gupta, N., *JIoT May 1, 2021 7182-7191*

Javadpour, A., see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*

Javid, U., see Aman, M.N., *JIoT Jan. 15, 2021 1123-1139*

Javidan, R., see Ghahramani, M., *JIoT March 1, 2021 3619-3635*

Jena, D., see Mohanta, B.K., *JIoT Jan. 15, 2021 881-888*

Jena, D., see Panda, S.S., *JIoT Aug. 15, 2021 12947-12954*

Jeon, G., see Ahmed, I., *JIoT July 1, 2021 10318-10326*

Jeon, G., see Ahmed, I., *JIoT Nov. 1, 2021 15855-15862*

Jeon, W.S., Oh, H.S., and Jeong, D.G., Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices; *JIoT Oct. 15, 2021 15628-15638*

Jeon, W.S., see Oh, H.S., *JIoT Nov. 15, 2021 16418-16426*

Jeong, A., see Hahm, S., *JIoT March 1, 2021 3705-3716*

Jeong, C., and Son, H., Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks; *JIoT March 1, 2021 3972-3982*

- Jeong, C.**, and Chae, S.H., Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks; *JIoT May 15, 2021* 8044-8055
- Jeong, D.G.**, see Jeon, W.S., *JIoT Oct. 15, 2021* 15628-15638
- Jeong, S.**, see Kim, B., *JIoT April 1, 2021* 5645-5656
- Jesson, J.**, see Deese, A.S., *JIoT Jan. 1, 2021* 222-231
- Jhanjhi, N.Z.**, see Muzammal, S.M., *JIoT March 15, 2021* 4186-4210
- Ji, B.**, see Qian, L.P., *JIoT Feb. 15, 2021* 2150-2162
- Ji, F.**, see Chen, W., *JIoT Aug. 1, 2021* 12398-12409
- Ji, F.**, see Chen, X., *JIoT Nov. 1, 2021* 15939-15952
- Ji, H.**, see Yang, L., *JIoT Feb. 15, 2021* 2330-2341
- Ji, H.**, see Guo, F., *JIoT Aug. 1, 2021* 11891-11915
- Ji, J.**, Zhu, K., Niyato, D., and Wang, R., Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications; *JIoT Feb. 1, 2021* 1557-1571
- Ji, J.**, Zhu, K., Yi, C., and Niyato, D., Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design; *JIoT May 15, 2021* 8570-8584
- Ji, S.**, see Li, K., *JIoT April 15, 2021* 6904-6915
- Ji, T.**, see Wang, Q., *JIoT Nov. 1, 2021* 15953-15964
- Ji, W.**, see Qian, K., *JIoT Nov. 1, 2021* 16035-16046
- Ji, W.**, see Yang, Z., *JIoT Dec. 1, 2021* 16779-16786
- Ji, X.**, see Zhang, J., *JIoT Feb. 15, 2021* 2992-2999
- Ji, X.**, see Tian, W., *JIoT Dec. 15, 2021* 17372-17381
- Ji, Y.**, see Sahni, Y., *JIoT March 15, 2021* 4893-4905
- Ji, Y.**, see Ma, L., *JIoT April 15, 2021* 6757-6770
- Ji, Y.**, see Duan, W., *JIoT April 15, 2021* 6154-6166
- Ji, Y.**, see Zhu, C., *JIoT May 1, 2021* 7625-7637
- Ji, Y.**, see Li, J., *JIoT Sept. 1, 2021* 13183-13195
- Ji, Y.**, see Chiang, Y., *JIoT Oct. 1, 2021* 14435-14446
- Ji, Z.**, see Xu, G., *JIoT June 15, 2021* 9559-9567
- Jia, J.**, see Sharif, A., *JIoT Jan. 15, 2021* 889-900
- Jia, J.**, see Zhang, M., *JIoT Sept. 1, 2021* 13608-13623
- Jia, J.**, see Sharif, A., *JIoT Dec. 15, 2021* 17495-17507
- Jia, L.**, see Jin, H., *JIoT Feb. 15, 2021* 2444-2458
- Jia, L.**, see Song, Y., *JIoT June 15, 2021* 9594-9602
- Jia, M.**, Gao, Q., Guo, Q., and Gu, X., Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA; *JIoT Oct. 15, 2021* 15205-15215
- Jia, P.**, Wang, X., and Shen, X., Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems; *JIoT March 15, 2021* 4548-4559
- Jia, P.**, Wang, X., and Shen, X., Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems; *JIoT Sept. 15, 2021* 14028-14038
- Jia, R.**, Lu, J., Wu, J., Wang, X., Zheng, Z., and Li, M., Geometric Analysis of Energy Saving for Directional Charging in WRSNs; *JIoT March 15, 2021* 4697-4710
- Jia, R.**, Zhang, X., Feng, Y., Wang, T., Lu, J., Zheng, Z., and Li, M., Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q-Learning Approach; *JIoT Sept. 15, 2021* 14299-14307
- Jia, W.**, see Qian, L.P., *JIoT Feb. 15, 2021* 2150-2162
- Jia, X.**, see Zhang, J., *JIoT Jan. 15, 2021* 1140-1153
- Jia, X.**, see Zhang, C., *JIoT April 15, 2021* 6624-6636
- Jia, Y.**, see Zhou, W., *JIoT July 15, 2021* 11621-11639
- Jia, Y.**, see Hu, L., *JIoT July 15, 2021* 11329-11344
- Jia, Z.**, Sheng, M., Li, J., Niyato, D., and Han, Z., LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks; *JIoT June 15, 2021* 9814-9826
- Jialin, M.**, see Zhaofeng, M., *JIoT Feb. 15, 2021* 2116-2123
- Jiang, B.**, Li, J., Yue, G., and Song, H., Differential Privacy for Industrial Internet of Things: Opportunities, Applications, and Challenges; *JIoT July 1, 2021* 10430-10451
- Jiang, C.**, see Zhang, R., *JIoT Feb. 15, 2021* 2517-2539
- Jiang, C.**, see Zhang, P., *JIoT Feb. 15, 2021* 2459-2467
- Jiang, C.**, see Zhao, W., *JIoT March 15, 2021* 4023-4034
- Jiang, C.**, see Cheng, J., *JIoT May 1, 2021* 7521-7530
- Jiang, C.**, see Wang, C., *JIoT June 1, 2021* 9317-9329
- Jiang, C.**, see Fang, Z., *JIoT Oct. 1, 2021* 14559-14571
- Jiang, D.**, see Xiao, G., *JIoT Aug. 15, 2021* 12748-12757
- Jiang, G.**, see Yang, H., *JIoT April 15, 2021* 6940-6948
- Jiang, H.**, Nai, H., Wu, J., and Qiu, M., AI and Machine Learning for Industrial Security With Level Discovery Method; *JIoT April 15, 2021* 6167-6177
- Jiang, H.**, see Lee, J., *JIoT May 1, 2021* 7105-7114
- Jiang, H.**, Chen, K., Ge, Q., Wang, Y., Xu, J., and Li, C., Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data; *JIoT June 1, 2021* 9450-9459
- Jiang, H.**, Nai, H., Jiang, Y., Du, W., Yang, J., and Wu, L., An Adversarial Examples Identification Method for Time Series in Internet-of-Things System; *JIoT June 15, 2021* 9495-9510
- Jiang, H.**, see Li, G., *JIoT Sept. 15, 2021* 14385-14398
- Jiang, H.**, Wang, M., Liu, D., and Zhou, S., CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones; *JIoT Oct. 1, 2021* 14658-14671
- Jiang, J.**, see Zhang, Y., *JIoT March 1, 2021* 3786-3800
- Jiang, J.**, Wang, J., Hsieh, C., Tseng, K., Ye, Z., Su, L., Sun, C., Wen, T., and Juang, J., An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform; *JIoT April 1, 2021* 5778-5793
- Jiang, J.**, see Du, J., *JIoT May 15, 2021* 7849-7862
- Jiang, J.**, Xiong, J., Wang, Z., Wang, Z., Qiu, Z., Liu, C., Deng, Z., and Rao, Y., Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology; *JIoT Oct. 15, 2021* 15284-15291
- Jiang, J.**, see Wang, H., *JIoT Oct. 15, 2021* 15422-15440
- Jiang, L.**, see Zhao, Y., *JIoT Feb. 1, 2021* 1817-1829
- Jiang, P.**, Qiu, B., Zhu, L., and Gai, K., SearchBC: A Blockchain-Based PEKS Framework for IoT Services; *JIoT March 15, 2021* 5031-5044
- Jiang, T.**, see Chen, Y., *JIoT Jan. 1, 2021* 85-111
- Jiang, T.**, see Liu, P., *JIoT April 1, 2021* 6114-6126
- Jiang, T.**, Zhang, J., Tang, P., Tian, L., Zheng, Y., Dou, J., Asplund, H., Raskowski, L., D'Errico, R., and Jamsa, T., 3GPP Standardized 5G Channel Model for IIoT Scenarios: A Survey; *JIoT June 1, 2021* 8799-8815
- Jiang, T.**, see Yu, L., *JIoT Aug. 1, 2021* 12046-12063
- Jiang, T.**, see Kong, D., *JIoT Aug. 15, 2021* 12880-12891
- Jiang, T.**, see Ding, J., *JIoT Oct. 15, 2021* 15361-15371
- Jiang, T.**, see Zhong, Y., *JIoT Oct. 15, 2021* 15148-15159
- Jiang, X.**, Zhang, H., Barsallo Yi, E.A., Raghunathan, N., Mousoulis, C., Chatterji, S., Peroulis, D., Shakouri, A., and Bagchi, S., Hybrid Low-Power Wide-Area Mesh Network for IoT Applications; *JIoT Jan. 15, 2021* 901-915
- Jiang, X.**, see Xu, Y., *JIoT Feb. 15, 2021* 3000-3013
- Jiang, X.**, see Chatterjee, B., *JIoT April 15, 2021* 6800-6814
- Jiang, X.**, see Gao, C., *JIoT April 15, 2021* 6313-6323
- Jiang, X.**, see Xu, S., *JIoT Nov. 1, 2021* 15990-16001
- Jiang, X.**, see Zhou, J., *JIoT Nov. 1, 2021* 15818-15828
- Jiang, X.**, see Kong, X., *JIoT Nov. 1, 2021* 15929-15938
- Jiang, X.**, Liu, X., Fan, J., Ye, X., Dai, C., Clancy, E.A., Farina, D., and Chen, W., Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture; *JIoT Nov. 15, 2021* 16535-16547
- Jiang, Y.**, see Wang, T., *JIoT March 1, 2021* 3369-3383
- Jiang, Y.**, see Jiang, H., *JIoT June 15, 2021* 9495-9510
- Jiang, Y.**, Miao, Y., Alzahrani, B., Barnawi, A., Alotaibi, R., and Hu, L., Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues; *JIoT July 1, 2021* 10356-10366
- Jiang, Y.**, Zhang, K., Qian, Y., and Zhou, L., Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing; *JIoT July 15, 2021* 11163-11176
- Jiang, Z.**, see Hu, H., *JIoT June 15, 2021* 9539-9548
- Jiang, Z.**, see Zhou, S., *JIoT Oct. 1, 2021* 14431-14434
- Jiao, J.**, He, Y., Wu, S., and Zhang, Q., Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G; *JIoT Oct. 1, 2021* 14773-14786
- Jiao, J.**, Xu, L., Wu, S., Lu, R., and Zhang, Q., MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System; *JIoT Dec. 15, 2021* 17403-17416

Jiao, L., see Xu, G., *JIoT June 15, 2021 9559-9567*

Jiao, L., see Alipour-Fanid, A., *JIoT Sept. 1, 2021 13278-13290*

Jiao, P., see Wu, H., *JIoT Feb. 15, 2021 2163-2176*

Jiao, Y., see Gu, Y., *JIoT April 15, 2021 6771-6788*

Jihui, W., see Zhaofeng, M., *JIoT Feb. 15, 2021 2116-2123*

Jimenez, A., see Dautta, M., *JIoT May 1, 2021 7600-7609*

Jin, C., see Xiong, H., *JIoT Nov. 1, 2021 16142-16152*

Jin, D., see Chen, Y., *JIoT Jan. 1, 2021 85-111*

Jin, D., see Hui, S., *JIoT May 1, 2021 7115-7125*

Jin, G., see Zhang, W., *JIoT May 15, 2021 8021-8031*

Jin, G., see Li, J., *JIoT July 15, 2021 11150-11162*

Jin, H., Jia, L., and Zhou, Z., Boosting Edge Intelligence With Collaborative Cross-Edge Analytics; *JIoT Feb. 15, 2021 2444-2458*

Jin, H., see Jang, H.S., *JIoT July 15, 2021 11640-11654*

Jin, H., see Seo, J., *JIoT Oct. 15, 2021 15608-15619*

Jin, H., Dai, X., Xiao, J., Li, B., Li, H., and Zhang, Y., Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things; *JIoT Nov. 1, 2021 15776-15784*

Jin, H., see Zhao, F., *JIoT Dec. 1, 2021 16758-16769*

Jin, J., see Lan, H., *JIoT Feb. 15, 2021 2814-2825*

Jin, J., see Zhang, T., *JIoT Feb. 15, 2021 2751-2761*

Jin, L., see Zhao, F., *JIoT Dec. 1, 2021 16758-16769*

Jin, R., Cai, C., Deng, T., Li, Q., and Zheng, R., MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices; *JIoT July 1, 2021 10755-10765*

Jin, R., see Lu, J., *JIoT Nov. 1, 2021 15839-15846*

Jin, R., see Zhang, Y., *JIoT Dec. 1, 2021 16872-16879*

Jin, S., see Zuo, Y., *JIoT June 1, 2021 9084-9098*

Jin, S., see Zhang, Q., *JIoT June 15, 2021 10146-10159*

Jin, X., Zhang, H., Li, X., Yu, H., Liu, B., Xie, S., Singh, A.K., and Li, Y., Confused-Modulo-Projection-Based Somewhat Homomorphic Encryption—Cryptosystem, Library, and Applications on Secure Smart Cities; *JIoT April 15, 2021 6324-6336*

Jin, Z., see Su, Y., *JIoT March 1, 2021 3653-3664*

Jing, X., see Zhang, R., *JIoT Feb. 15, 2021 2517-2539*

Jing, X., see Cui, Z., *JIoT Aug. 15, 2021 12540-12549*

Jing, Z., see Qin, M., *JIoT Feb. 1, 2021 1896-1907*

Jo, M., see Vangala, A., *JIoT July 1, 2021 10792-10806*

Jogunola, O., Adebisi, B., Ikpehai, A., Popoola, S.I., Gui, G., Gacanin, H., and Ci, S., Consensus Algorithms and Deep Reinforcement Learning in Energy Market: A Review; *JIoT March 15, 2021 4211-4227*

Johnston, C.T., see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*

Jolfaei, A., see Kouroshnezhad, S., *JIoT April 1, 2021 5202-5210*

Jolfaei, A., see Li, Y., *JIoT April 15, 2021 6178-6186*

Jolfaei, A., see Garmaroodi, M.S.S., *JIoT July 1, 2021 10280-10287*

Jolfaei, A., see Haghighi, M.S., *JIoT Aug. 15, 2021 12716-12723*

Jorswieck, E.A., see Shehab, M., *JIoT July 15, 2021 11135-11149*

Joung, J., see Ye, H., *JIoT Sept. 1, 2021 13397-13413*

Joung, J., see Yu, H., *JIoT Dec. 1, 2021 17211-17226*

Juang, J., see Jiang, J., *JIoT April 1, 2021 5778-5793*

Juang, R., see Tarekegn, G.B., *JIoT March 1, 2021 3717-3729*

Jun, H., Lee, M., and Kim, H., WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans; *JIoT July 15, 2021 11690-11704*

Junejo, A.K., Komninos, N., and McCann, J.A., A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems; *JIoT April 15, 2021 6840-6852*

Jung, B.C., see Jang, H.S., *JIoT July 15, 2021 11640-11654*

Jung, B.C., see Seo, J., *JIoT Oct. 15, 2021 15608-15619*

Jung, B.C., see Jang, H.S., *JIoT Oct. 15, 2021 15349-15360*

Jung, S., Lee, J., and Lee, C., RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System; *JIoT Oct. 1, 2021 14860-14873*

Jung, Y., see You, Y., *JIoT Feb. 15, 2021 2900-2909*

Jurdak, R., see Sandhu, M.M., *JIoT Sept. 15, 2021 13825-13848*

K

Kabrawala, S., see Abichandani, P., *JIoT Feb. 1, 2021 1783-1796*

Kaddoum, G., see Baek, J., *JIoT Jan. 15, 2021 1041-1056*

Kaddoum, G., see Ranjha, A., *JIoT Feb. 1, 2021 1674-1686*

Kaddoum, G., see Ranjha, A., *JIoT March 15, 2021 4618-4627*

Kaddoum, G., see Freitas de Araujo-Filho, P., *JIoT April 15, 2021 6247-6256*

Kaddoum, G., see Wang, X., *JIoT July 1, 2021 10288-10298*

Kaddoum, G., see Moreira, C.M., *JIoT Sept. 15, 2021 14187-14201*

Kadoch, M., see Shi, Z., *JIoT March 1, 2021 3476-3489*

Kaiwartya, O., see Makarfi, A.U., *JIoT Jan. 1, 2021 443-457*

Kak, A., and Akyildiz, I.F., Designing Large-Scale Constellations for the Internet of Space Things With CubeSats; *JIoT Feb. 1, 2021 1749-1768*

Kalaimannan, E., see Choudhury, N., *JIoT Jan. 1, 2021 168-178*

Kaleem, Z., see Shakoor, S., *JIoT June 15, 2021 9776-9786*

Kalita, A., and Khatua, M., Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network; *JIoT Aug. 1, 2021 12242-12250*

Kalita, A., and Khatua, M., Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping; *JIoT Dec. 15, 2021 17395-17402*

Kan, J., see Xu, J., *JIoT July 15, 2021 11450-11462*

Kan, Z., see Wang, R., *JIoT June 1, 2021 8964-8975*

Kanai-Pak, M., see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*

Kanapram, D.T., Marchese, M., Bodanese, E.L., Gomez, D.M., Marcenaro, L., and Regazzoni, C., Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things; *JIoT March 1, 2021 3224-3241*

Kandah, F., see Reising, D., *JIoT May 15, 2021 8356-8371*

Kang, B., see Yan, J., *JIoT Oct. 1, 2021 14623-14637*

Kang, H., Zhang, Q., and Huang, Q., Context-Aware Wireless-Based Cross-Domain Gesture Recognition; *JIoT Sept. 1, 2021 13503-13515*

Kang, J., see Li, Z., *JIoT Feb. 15, 2021 2364-2378*

Kang, J., see Liu, Y., *JIoT April 15, 2021 6348-6358*

Kang, J., see Zhao, Y., *JIoT June 1, 2021 8865-8882*

Kang, X., Liu, L., and Ma, H., ESR-GAN: Environmental Signal Reconstruction Learning With Generative Adversarial Network; *JIoT Jan. 1, 2021 636-646*

Kang, X., see Ye, H., *JIoT Sept. 1, 2021 13397-13413*

Kang, Y., see Fu, F., *JIoT Feb. 1, 2021 1308-1321*

Kang, Y., Liu, S., Zhang, H., Li, W., Han, Z., Osher, S., and Poor, H.V., Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games; *JIoT May 15, 2021 8488-8503*

Kanhere, S., see Singh, P., *JIoT Aug. 15, 2021 12569-12577*

Kanhere, S.S., see Zhang, J., *JIoT May 1, 2021 7610-7624*

Kantarci, B., see Zhang, Y., *JIoT Feb. 1, 2021 1334-1346*

Kar, M., see Chawla, N., *JIoT Nov. 15, 2021 16379-16394*

Kar, S., see Mukhopadhyay, B., *JIoT Sept. 1, 2021 13384-13396*

Karimi, M., Choi, H., Wang, Y., Xiang, Y., and Kim, H., Real-Time Task Scheduling on Intermittently Powered Batteryless Devices; *JIoT Sept. 1, 2021 13328-13342*

Karimipour, H., see Haddadpajouh, H., *JIoT March 15, 2021 4540-4547*

Karimipour, H., see Yazdinejad, A., *JIoT April 15, 2021 6406-6415*

Karimipour, H., see Jahromi, A.N., *JIoT Sept. 1, 2021 13712-13722*

Karmakar, K.K., Varadarajan, V., Nepal, S., and Tupakula, U., SDN-Enabled Secure IoT Architecture; *JIoT April 15, 2021 6549-6564*

Karmakar, N.C., see Dey, S., *JIoT March 1, 2021 3955-3971*

Karnapi, F.A., see Tan, E., *JIoT Sept. 15, 2021 14308-14321*

Kasahara, S., see Zhang, Y., *JIoT April 15, 2021 6372-6384*

Kasi, M.K., see Kasi, S.K., *JIoT July 1, 2021 10308-10317*

Kasi, S.K., Kasi, M.K., Ali, K., Raza, M., Afzal, H., Lasebae, A., Naeem, B., Islam, S.u., and Rodrigues, J.J.P.C., Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks; *JIoT July 1, 2021 10308-10317*

Kato, N., see Verma, S., *JIoT May 15, 2021 8411-8422*

Kato, N., see Rodrigues, T.K., *JIoT Nov. 15, 2021 16231-16242*

Katona, R., Cionca, V., O'Shea, D., and Pesch, D., Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach; *JIoT Jan. 15, 2021 916-926*

- Katsigiannis, S.**, see Arnau-Gonzalez, P., *JIoT Aug. 1, 2021 12219-12230*
- Kaur, A.**, see Singh, P., *JIoT Aug. 15, 2021 12569-12577*
- Kaur, G.**, Chanak, P., and Bhattacharya, M., Energy-Efficient Intelligent Routing Scheme for IoT-Enabled WSNs; *JIoT July 15, 2021 11440-11449*
- Kaur, S.**, see Verma, S., *JIoT April 1, 2021 5408-5415*
- Kaw, J.A.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- Kawamoto, Y.**, see Verma, S., *JIoT May 15, 2021 8411-8422*
- Kayas, G.**, Hossain, M., Payton, J., and Islam, S.M.R., SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things; *JIoT July 15, 2021 11561-11580*
- Kazienko, J.F.**, see Borgiani, V., *JIoT March 15, 2021 4569-4578*
- Kazmi, S.M.A.**, see Dang, T.N., *JIoT Dec. 15, 2021 17382-17394*
- Ke, W.**, see Sheng, H., *JIoT March 1, 2021 3189-3200*
- Kern, A.**, see Pelle, I., *JIoT May 15, 2021 7954-7972*
- Khabbaz, M.**, Assi, C., and Sharafeddine, S., Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks; *JIoT July 1, 2021 10745-10754*
- Khajepour, A.**, see Xia, X., *JIoT Oct. 1, 2021 14845-14859*
- Khalifa, S.**, see Sandhu, M.M., *JIoT Sept. 15, 2021 13825-13848*
- Khalil, I.**, see Zhu, F., *JIoT July 15, 2021 11678-11689*
- Khalil, R.A.**, Saeed, N., Masood, M., Fard, Y.M., Alouini, M., and Al-Naffouri, T.Y., Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications; *JIoT July 15, 2021 11016-11040*
- Khan, A.**, see Suhail, S., *JIoT Jan. 1, 2021 1-17*
- Khan, A.W.**, see Rauf, B., *JIoT April 15, 2021 6359-6371*
- Khan, F.**, Rehman, A.u., Zhang, Y., Mastorakis, S., Song, H., Jan, M.A., and Dev, K., A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things; *JIoT Oct. 1, 2021 14835-14844*
- Khan, F.**, see Sun, J., *JIoT Nov. 1, 2021 15663-15671*
- Khan, K.S.**, see Abkenar, F.S., *JIoT March 1, 2021 3875-3884*
- Khan, L.U.**, see Dang, T.N., *JIoT Dec. 15, 2021 17382-17394*
- Khan, M.A.**, see Verma, S., *JIoT April 1, 2021 5408-5415*
- Khan, M.A.**, see Mukherjee, A., *JIoT April 1, 2021 5194-5201*
- Khan, M.K.**, see Khan, W.Z., *JIoT May 15, 2021 7768-7788*
- Khan, M.K.**, see Saleem, M.A., *JIoT Nov. 15, 2021 16613-16622*
- Khan, M.M.Z.M.**, see Altaf, A., *JIoT May 1, 2021 7497-7509*
- Khan, M.N.**, Rao, A., and Camtepe, S., Lightweight Cryptographic Protocols for IoT-Constrained Devices: A Survey; *JIoT March 15, 2021 4132-4156*
- Khan, N.**, Iqbal, K., and Martini, M.G., Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data; *JIoT Jan. 1, 2021 596-609*
- Khan, S.**, Lee, W., and Hwang, S.O., Scalable and Efficient Hardware Architectures for Authenticated Encryption in IoT Applications; *JIoT July 15, 2021 11260-11275*
- Khan, S.M.**, and Chowdhury, M., Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections; *JIoT Aug. 15, 2021 13077-13094*
- Khan, S.M.Z.**, Alam, M.M., Le Moullec, Y., Kuusik, A., Parand, S., and Verikoukis, C., An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver; *JIoT Oct. 1, 2021 14756-14772*
- Khan, W.Z.**, Arshad, Q., Hakak, S., Khan, M.K., and Saeed-Ur-Rehman, Trust Management in Social Internet of Things: Architectures, Recent Advancements, and Future Challenges; *JIoT May 15, 2021 7768-7788*
- Khanna, A.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021 15919-15928*
- Kharel, R.**, see Makarfi, A.U., *JIoT Jan. 1, 2021 443-457*
- Khattab, T.**, see Gouissem, A., *JIoT Dec. 1, 2021 16880-16893*
- Khatua, M.**, see Kalita, A., *JIoT Aug. 1, 2021 12242-12250*
- Khatua, M.**, see Kalita, A., *JIoT Dec. 15, 2021 17395-17402*
- Khawam, K.**, see Fawaz, H., *JIoT April 1, 2021 5544-5557*
- Kheirkhah Sangdeh, P.**, see Pirayesh, H., *JIoT March 15, 2021 4957-4968*
- Khelloufi, A.**, Ning, H., Dhelim, S., Qiu, T., Ma, J., Huang, R., and Atzori, L., A Social-Relationships-Based Service Recommendation System for SIoT Devices; *JIoT Feb. 1, 2021 1859-1870*
- Khodaei, M.**, and Papadimitratos, P., Cooperative Location Privacy in Vehicular Networks: Why Simple Mix Zones are Not Enough; *JIoT May 15, 2021 7985-8004*
- Khor, J.H.**, Sidorov, M., and Woon, P.Y., Public Blockchains for Resource-Constrained IoT Devices—A State-of-the-Art Survey; *JIoT Aug. 1, 2021 11960-11982*
- Khorsandi, S.**, see Haghghatdoost, V., *JIoT April 1, 2021 5710-5721*
- Khosravi, M.R.**, see Wang, F., *JIoT April 1, 2021 5321-5331*
- Kianoush, S.**, Savazzi, S., Beschi, M., Sigg, S., and Rampa, V., A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments; *JIoT Jan. 15, 2021 1154-1168*
- Kilzi, A.**, Farah, J., Nour, C.A., and Douillard, C., Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA; *JIoT Dec. 15, 2021 17705-17723*
- Kim, B.**, Heo, S., Lee, J., Jeong, S., Lee, Y., and Kim, H., Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing; *JIoT April 1, 2021 5645-5656*
- Kim, B.**, see Rehman, M.A.U., *JIoT May 1, 2021 7661-7675*
- Kim, B.**, see Evans, J.W., *JIoT June 15, 2021 10047-10051*
- Kim, B.**, see Lee, G., *JIoT Nov. 15, 2021 16406-16417*
- Kim, D.**, see Huynh-The, T., *JIoT Feb. 1, 2021 1533-1543*
- Kim, D.**, see Kim, N., *JIoT May 15, 2021 8259-8278*
- Kim, D.I.**, see Moon, J.H., *JIoT Feb. 1, 2021 1437-1452*
- Kim, H.**, see Kim, B., *JIoT April 1, 2021 5645-5656*
- Kim, H.**, see Choi, H., *JIoT April 15, 2021 6692-6708*
- Kim, H.**, see Jun, H., *JIoT July 15, 2021 11690-11704*
- Kim, H.**, see Karimi, M., *JIoT Sept. 1, 2021 13328-13342*
- Kim, H.**, see Lee, G., *JIoT Nov. 15, 2021 16406-16417*
- Kim, H.**, see Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Kim, J.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Kim, J.**, see Choi, J., *JIoT April 1, 2021 5806-5821*
- Kim, J.**, see Hwang, J., *JIoT July 15, 2021 11526-11547*
- Kim, K.**, see Choi, J., *JIoT April 1, 2021 5806-5821*
- Kim, K.**, see Song, M., *JIoT Sept. 1, 2021 13425-13438*
- Kim, K.**, see Dang, T.N., *JIoT Dec. 15, 2021 17382-17394*
- Kim, M.**, see Nguyen, T., *JIoT Jan. 15, 2021 766-777*
- Kim, M.**, Han, D., and Rhee, J.K., Multiview Variational Deep Learning With Application to Practical Indoor Localization; *JIoT Aug. 1, 2021 12375-12383*
- Kim, M.**, see Dang, T., *JIoT Oct. 15, 2021 15468-15485*
- Kim, N.**, Kim, D., Lee, J., Niyato, D., and Choi, J.K., Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach; *JIoT May 15, 2021 8259-8278*
- Kim, S.**, and Paek, J., Vulnerability of WiFi's Noise Floor Calibration; *JIoT May 15, 2021 8504-8513*
- Kim, S.**, see Vu, T., *JIoT July 15, 2021 11655-11665*
- Kim, S.**, see Lee, C., *JIoT Aug. 1, 2021 11776-11792*
- Kim, S.**, see Han, K., *JIoT Oct. 1, 2021 14589-14606*
- Kim, S.**, see Moon, J., *JIoT Oct. 15, 2021 15441-15455*
- Kim, T.**, see Phan, L., *JIoT Feb. 1, 2021 1934-1945*
- Kim, T.**, see Phan, L., *JIoT Feb. 1, 2021 1934-1945*
- Kim, T.**, see Phan, L., *JIoT May 1, 2021 7485-7496*
- Kishk, M.A.**, see Zhaikhan, A., *JIoT April 1, 2021 6039-6052*
- Kishore, S.N.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Kisseleff, S.**, see Chougrani, H., *JIoT May 1, 2021 7437-7449*
- Kitajima, Y.**, see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
- Ko, P.**, see Kristiani, E., *JIoT Jan. 1, 2021 309-319*
- Ko, S.**, see Han, K., *JIoT Oct. 1, 2021 14589-14606*
- Kobbane, A.**, see Abouamar, A., *JIoT July 15, 2021 11088-11099*
- Koca, M.**, Gurbilek, G., Soner, B., and Coleri, S., Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks; *JIoT Jan. 1, 2021 179-186*
- Koh, J.**, see Liang, Q., *JIoT Oct. 15, 2021 15037-15040*
- Koh, L.H.**, see Mollah, M.B., *JIoT Jan. 1, 2021 18-43*
- Koh, L.H.**, see Mollah, M.B., *JIoT March 15, 2021 4157-4185*
- Koike, T.**, see Qian, K., *JIoT May 15, 2021 8343-8355*
- Koike, T.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Kok, I.**, and Ozdemir, S., DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT; *JIoT Jan. 1, 2021 232-243*
- Kolbe, L.M.**, see Yuan, Y., *JIoT Aug. 15, 2021 12734-12747*

- Kolios, P.**, see Moon, J., *JIoT Oct. 15, 2021 15441-15455*
- Komninos, N.**, see Junejo, A.K., *JIoT April 15, 2021 6840-6852*
- Kompella, S.**, see Li, C., *JIoT Oct. 1, 2021 14543-14558*
- Kondo, A.**, see Rahulamathavan, Y., *JIoT Feb. 1, 2021 1417-1427*
- Kong, D.**, Xu, Y., Song, G., Li, J., and Jiang, T., A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems; *JIoT Aug. 15, 2021 12880-12891*
- Kong, F.**, see Gao, P., *JIoT March 1, 2021 3287-3299*
- Kong, F.**, see Ge, X., *JIoT Aug. 15, 2021 12902-12918*
- Kong, X.**, Wang, K., Wang, S., Wang, X., Jiang, X., Guo, Y., Shen, G., Chen, X., and Ni, Q., Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework; *JIoT Nov. 1, 2021 15929-15938*
- Konstantin, K.**, see Liao, S., *JIoT April 1, 2021 5172-5184*
- Koo, I.**, see Shakhov, V., *JIoT Aug. 1, 2021 12476-12477*
- Koppala, N.**, see Misra, S., *JIoT April 15, 2021 6975-6982*
- Korany, B.**, Cai, H., and Mostofi, Y., Multiple People Identification Through Walls Using Off-the-Shelf WiFi; *JIoT April 15, 2021 6963-6974*
- Korotaev, V.V.**, see da Cruz, M.A.A., *JIoT May 15, 2021 7902-7911*
- Koucheryavy, Y.**, see Yang, M., *JIoT Feb. 1, 2021 1572-1584*
- Koucheryavy, Y.**, see Yang, M., *JIoT Sept. 1, 2021 13690-13702*
- Kouroshnezhad, S.**, Peiravi, A., Haghighi, M.S., and Jolfaei, A., Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices; *JIoT April 1, 2021 5202-5210*
- Kousias, K.**, see Caso, G., *JIoT July 15, 2021 11384-11399*
- Kraemer, F.A.**, see Braten, A.E., *JIoT March 15, 2021 4275-4290*
- Kristiani, E.**, Yang, C., Huang, C., Ko, P., and Fathoni, H., On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications; *JIoT Jan. 1, 2021 309-319*
- Kritikakou, A.**, see Mo, L., *JIoT May 15, 2021 8246-8258*
- Krohmer, D.**, see Anton, S.D.D., *JIoT Dec. 15, 2021 17525-17540*
- Krusevac, Z.**, see Homssi, B.A., *JIoT March 15, 2021 4461-4471*
- Ku, M.**, and Lin, T., Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications; *JIoT Aug. 15, 2021 12983-12998*
- Ku, M.L.**, see Yu, C., *JIoT April 15, 2021 7101-7102*
- Kuang, L.**, see Liao, Z., *JIoT June 15, 2021 9730-9739*
- Kuang, X.**, see Xu, C., *JIoT Sept. 1, 2021 13528-13541*
- Kuhestani, A.**, see Letafati, M., *JIoT March 15, 2021 4373-4388*
- Kuhestani, A.**, see Forouzesh, M., *JIoT May 1, 2021 7170-7181*
- Kulas, L.**, see Ademaj, F., *JIoT Nov. 15, 2021 16653-16665*
- Kumar, A.**, Sharma, A., Bharti, V., Singh, A.K., Singh, S.K., and Saxena, S., MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification; *JIoT Dec. 15, 2021 17778-17789*
- Kumar, H.**, see Chawla, N., *JIoT Nov. 15, 2021 16379-16394*
- Kumar, N.**, Acharya, D., and Lohani, D., An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion; *JIoT Jan. 15, 2021 869-880*
- Kumar, N.**, see Hassija, V., *JIoT Feb. 15, 2021 2409-2418*
- Kumar, N.**, see Budhiraja, I., *JIoT March 1, 2021 3143-3156*
- Kumar, N.**, see Vinoth, R., *JIoT March 1, 2021 3801-3811*
- Kumar, N.**, see Chhikara, P., *JIoT March 15, 2021 4448-4460*
- Kumar, N.**, see Prerna, D., *JIoT March 15, 2021 4816-4829*
- Kumar, N.**, see Aggarwal, S., *JIoT April 1, 2021 5416-5441*
- Kumar, N.**, see Wei, F., *JIoT April 1, 2021 5599-5606*
- Kumar, N.**, see Chhikara, P., *JIoT April 15, 2021 6949-6962*
- Kumar, N.**, see Verma, G.K., *JIoT June 1, 2021 9305-9316*
- Kumar, N.**, see Thakker, U., *JIoT June 1, 2021 8747-8773*
- Kumar, N.**, see Guo, Z., *JIoT June 15, 2021 9549-9558*
- Kumar, N.**, see Zhou, P., *JIoT July 1, 2021 10237-10247*
- Kumar, N.**, see Ray, P.P., *JIoT July 1, 2021 10857-10872*
- Kumar, N.**, see Pokhrel, S.R., *JIoT July 1, 2021 10299-10307*
- Kumar, N.**, see Chhikara, P., *JIoT Aug. 15, 2021 12597-12609*
- Kumar, N.**, see Wang, C., *JIoT Sept. 15, 2021 14248-14257*
- Kumar, N.**, see Patel, N.S., *JIoT Oct. 1, 2021 14797-14809*
- Kumar, N.**, see Chhikara, P., *JIoT Oct. 15, 2021 15456-15467*
- Kumar, N.**, see Vekaria, D., *JIoT Nov. 1, 2021 15977-15989*
- Kumar, N.**, see Pathak, N., *JIoT Dec. 1, 2021 16845-16852*
- Kumar, P.**, see Masud, M., *JIoT Nov. 1, 2021 15694-15703*
- Kumar, P.M.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Kumar, S.**, see Sun, Y., *JIoT Jan. 15, 2021 1197-1210*
- Kumar, S.**, Suman, S., and De, S., Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks; *JIoT June 15, 2021 9920-9933*
- Kumar, S.**, see Pandey, A., *JIoT July 1, 2021 10665-10677*
- Kumar, V.**, see Li, H., *JIoT Aug. 1, 2021 11847-11859*
- Kumar Singh, A.**, see Singh, R., *JIoT April 15, 2021 6214-6221*
- Kumari, A.**, see Vekaria, D., *JIoT Nov. 1, 2021 15977-15989*
- Kumari, S.**, see Wang, K., *JIoT April 1, 2021 5332-5339*
- Kumari, S.**, see Hou, Y., *JIoT June 1, 2021 8935-8948*
- Kumari, S.**, see Xiong, H., *JIoT Nov. 1, 2021 16142-16152*
- Kure, O.**, see Hagos, D.H., *JIoT March 1, 2021 3534-3553*
- Kurt, G.K.**, see Ren, Q., *JIoT Feb. 1, 2021 1453-1466*
- Kurt, G.K.**, see Aydin, Y., *JIoT Sept. 15, 2021 13876-13887*
- Kuusik, A.**, see Khan, S.M.Z., *JIoT Oct. 1, 2021 14756-14772*
- Kuwahara, N.**, see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
- Kwak, K.S.**, see Wu, Y., *JIoT Oct. 1, 2021 14920-14933*
- Kwantwi, T.**, see Seid, A.M., *JIoT Aug. 1, 2021 12203-12218*

L

- Lagerspetz, E.**, see Li, T., *JIoT Dec. 1, 2021 16723-16733*
- Lahoud, S.**, see Fawaz, H., *JIoT April 1, 2021 5544-5557*
- Lai, C.**, see Cho, H., *JIoT Feb. 15, 2021 2379-2394*
- Lai, C.**, Li, Q., Zhou, H., and Zheng, D., SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation; *JIoT July 1, 2021 10619-10630*
- Lai, E.M.**, see Chen, D., *JIoT July 15, 2021 11193-11207*
- Lai, W.**, Wang, Y., and Lin, S., Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP; *JIoT Jan. 15, 2021 1016-1029*
- Lal, A.**, see Pinrod, V., *JIoT March 15, 2021 5009-5022*
- Lam, K.**, see Mollah, M.B., *JIoT Jan. 1, 2021 18-43*
- Lam, K.**, see Mollah, M.B., *JIoT March 15, 2021 4157-4185*
- Lam, K.**, see Zhao, Y., *JIoT June 1, 2021 8865-8882*
- Lam, K.**, see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Lampe, L.**, see Jabbarvaziri, F., *JIoT May 15, 2021 8372-8386*
- Lampe, L.**, see Rajendran, V., *JIoT Nov. 15, 2021 16637-16652*
- Lan, A.S.**, see Lan, G., *JIoT Sept. 15, 2021 14110-14126*
- Lan, G.**, Imani, M.F., Liu, Z., Manjarres, J., Hu, W., Lan, A.S., Smith, D.R., and Gorlatova, M., MetaSense: Boosting RF Sensing Accuracy Using Dynamic Metasurface Antenna; *JIoT Sept. 15, 2021 14110-14126*
- Lan, H.**, Lv, Y., Jin, J., Li, J., Sun, D., and Yang, Z., Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things; *JIoT Feb. 15, 2021 2814-2825*
- Lan, X.**, see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- Landfeldt, B.**, see Moradi, F., *JIoT Feb. 15, 2021 2574-2584*
- Lanza-Gutierrez, J.M.**, see Marino, R., *JIoT March 15, 2021 4339-4352*
- Laoudias, C.**, see Moon, J., *JIoT Oct. 15, 2021 15441-15455*
- Lasebae, A.**, see Kasi, S.K., *JIoT July 1, 2021 10308-10317*
- Latre, S.**, see Daneels, G., *JIoT July 1, 2021 10714-10730*
- Lattanzi, E.**, see Freschi, V., *JIoT July 15, 2021 11320-11328*
- Latva-Aho, M.**, see Lopez, O.L.A., *JIoT June 1, 2021 8816-8835*
- Latva-Aho, M.**, see Rosabal, O.M., *JIoT July 1, 2021 10531-10542*
- Latva-Aho, M.**, see Shehab, M., *JIoT July 15, 2021 11135-11149*
- Lau, B.P.L.**, Ng, B.K.K., Yuen, C., Tuncer, B., and Chong, K.H., The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach; *JIoT July 15, 2021 11503-11513*
- Lau, V.K.N.**, see Guo, H., *JIoT Jan. 1, 2021 197-210*
- Lau, V.K.N.**, see Su, L., *JIoT July 1, 2021 10922-10939*
- Lau, V.K.N.**, see Cai, S., *JIoT July 15, 2021 11177-11192*
- Lau, V.K.N.**, see Tang, M., *JIoT Oct. 1, 2021 14638-14657*
- Laughton, J.**, see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- Lavric, A.**, see Petrariu, A.I., *JIoT May 15, 2021 8423-8436*
- Lazarescu, M.T.**, and Poolad, P., Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring; *JIoT March 1, 2021 3939-3954*

- Le, D., *see* Nguyen, T., *JIoT Jan. 15, 2021 766-777*
- Le, D., *see* Dang, T., *JIoT Oct. 15, 2021 15468-15485*
- Le, L.B., *see* Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Le Moulllec, Y., *see* Khan, S.M.Z., *JIoT Oct. 1, 2021 14756-14772*
- Lee, A.P., *see* Shen, Y., *JIoT Dec. 1, 2021 16770-16778*
- Lee, B., Lee, H., Moon, S., and Lee, J., Enhanced Random Access for Massive-Machine-Type Communications; *JIoT April 15, 2021 7046-7064*
- Lee, B.M., Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things; *JIoT Feb. 15, 2021 2585-2602*
- Lee, B.M., Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks; *JIoT May 1, 2021 7252-7269*
- Lee, B.M., Massive MIMO for Underwater Industrial Internet of Things Networks; *JIoT Oct. 15, 2021 15542-15552*
- Lee, C., Na, W., Jang, G., and Cho, S., Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger ; *JIoT May 15, 2021 8291-8303*
- Lee, C., *see* Lee, C., *JIoT May 15, 2021 8291-8303*
- Lee, C., and Kim, S., Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System; *JIoT Aug. 1, 2021 11776-11792*
- Lee, C., *see* Jung, S., *JIoT Oct. 1, 2021 14860-14873*
- Lee, G., *see* Park, T., *JIoT June 15, 2021 10160-10169*
- Lee, G., Kim, B., Song, S., Heo, S., and Kim, H., ComFlex: Composible and Flexible Resource Management for the IoT; *JIoT Nov. 15, 2021 16406-16417*
- Lee, G.T., *see* Oh, H.S., *JIoT Nov. 15, 2021 16418-16426*
- Lee, H., *see* Lee, B., *JIoT April 15, 2021 7046-7064*
- Lee, I., *see* Zhu, Z., *JIoT Feb. 1, 2021 1702-1715*
- Lee, I., *see* Hua, M., *JIoT May 1, 2021 7691-7705*
- Lee, J., *see* Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Lee, J., *see* Han, K., *JIoT March 15, 2021 4642-4656*
- Lee, J., *see* Kim, B., *JIoT April 1, 2021 5645-5656*
- Lee, J., *see* Lee, S., *JIoT April 1, 2021 5985-6001*
- Lee, J., *see* Lee, B., *JIoT April 15, 2021 7046-7064*
- Lee, J., and Jiang, H., An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks; *JIoT May 1, 2021 7105-7114*
- Lee, J., *see* Kim, N., *JIoT May 15, 2021 8259-8278*
- Lee, J., *see* Song, D., *JIoT July 1, 2021 10543-10556*
- Lee, J., *see* Jung, S., *JIoT Oct. 1, 2021 14860-14873*
- Lee, J., *see* Nguyen, T.A., *JIoT Nov. 1, 2021 15704-15748*
- Lee, J., *see* Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Lee, K., Bang, J., and Choi, H., Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming; *JIoT Feb. 1, 2021 1467-1476*
- Lee, K., *see* Choi, H., *JIoT Feb. 1, 2021 1611-1622*
- Lee, K., *see* Moon, J.H., *JIoT Feb. 1, 2021 1437-1452*
- Lee, K., *see* Choi, H., *JIoT Aug. 1, 2021 12189-12202*
- Lee, M., *see* Jun, H., *JIoT July 15, 2021 11690-11704*
- Lee, M.G., *see* Oh, H.S., *JIoT Nov. 15, 2021 16418-16426*
- Lee, N., *see* Choi, J., *JIoT May 15, 2021 7973-7984*
- Lee, R.B., *see* He, Z., *JIoT June 15, 2021 9706-9716*
- Lee, S., *see* Han, K., *JIoT March 15, 2021 4642-4656*
- Lee, S., Lee, J., Park, H., and Choi, J.K., A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks; *JIoT April 1, 2021 5985-6001*
- Lee, T., *see* Chen, M., *JIoT Sept. 15, 2021 13939-13949*
- Lee, T., *see* Iqbal, A., *JIoT Oct. 1, 2021 14822-14834*
- Lee, W., *see* Han, K., *JIoT March 15, 2021 4642-4656*
- Lee, W., *see* Akleylek, S., *JIoT April 15, 2021 6983-6994*
- Lee, W., *see* Khan, S., *JIoT July 15, 2021 11260-11275*
- Lee, Y., *see* Kim, B., *JIoT April 1, 2021 5645-5656*
- Lee, Y., *see* Song, M., *JIoT Sept. 1, 2021 13425-13438*
- Lei, L., Tan, Y., Dahlenburg, G., Xiang, W., and Zheng, K., Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids; *JIoT May 15, 2021 7938-7953*
- Lei, W., *see* Hou, W., *JIoT Nov. 15, 2021 16256-16268*
- Lei, X., *see* Fan, Y., *JIoT June 1, 2021 9268-9277*
- Lei, Y., *see* Xiao, C., *JIoT April 1, 2021 5669-5681*
- Leng, S., *see* Chen, X., *JIoT Oct. 15, 2021 15180-15190*
- Leon-Salas, W.D., *see* Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Leoni, A., *see* Solic, P., *JIoT March 15, 2021 4830-4840*
- Letafati, M., Kuhestani, A., Wong, K., and Piran, M.J., A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer; *JIoT March 15, 2021 4373-4388*
- Letaief, K.B., *see* Hu, H., *JIoT Jan. 15, 2021 1211-1223*
- Letaief, K.B., *see* Bao, Z., *JIoT Feb. 15, 2021 2826-2841*
- Letaief, K.B., *see* Zheng, H., *JIoT March 15, 2021 4802-4815*
- Leung, C., *see* Lim, W.Y.B., *JIoT Dec. 1, 2021 16853-16862*
- Leung, V.C.M., Wang, X., Yu, F.R., Niyato, D., Taleb, T., and Pack, S., Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications; *JIoT Feb. 15, 2021 2082-2086*
- Leung, V.C.M., *see* An, Y., *JIoT March 1, 2021 3554-3566*
- Leung, V.C.M., *see* Luo, P., *JIoT July 15, 2021 11476-11486*
- Leung, V.C.M., *see* Guo, F., *JIoT Aug. 1, 2021 11891-11915*
- Leung, V.C.M., *see* Wu, Y., *JIoT Oct. 1, 2021 14920-14933*
- Leung, V.C.M., *see* Liang, J., *JIoT Nov. 1, 2021 16083-16095*
- Leung, V.C.M., *see* Chen, M., *JIoT Dec. 1, 2021 16718-16722*
- Lewis, A.N., *see* Nguyen, L.D., *JIoT April 15, 2021 6487-6497*
- Leyva-Mayorga, I., *see* Nguyen, L.D., *JIoT April 15, 2021 6487-6497*
- Li, A., Fu, J., Shen, H., and Sun, S., A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm; *JIoT Jan. 1, 2021 187-196*
- Li, B., *see* Yin, X., *JIoT Feb. 1, 2021 1599-1610*
- Li, B., *see* Wei, L., *JIoT March 15, 2021 4775-4787*
- Li, B., Zhao, S., Zhang, R., and Yang, L., Full-Duplex UAV Relaying for Multiple User Pairs; *JIoT March 15, 2021 4657-4667*
- Li, B., and Dong, W., Automatic Generation of IoT Device Platforms With AutoLink; *JIoT April 1, 2021 5893-5903*
- Li, B., *see* Tang, Q., *JIoT June 1, 2021 9164-9176*
- Li, B., *see* Yang, Y., *JIoT Aug. 15, 2021 12490-12504*
- Li, B., *see* Zhang, Y., *JIoT Sept. 15, 2021 13958-13974*
- Li, B., Wang, Q., Chen, H., Zhou, Y., and Li, Y., Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals; *JIoT Oct. 1, 2021 14485-14500*
- Li, B., Wang, S., Feng, Z., Zhang, J., Cao, X., and Zhao, C., Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar; *JIoT Oct. 15, 2021 15303-15316*
- Li, B., *see* Tao, Y., *JIoT Oct. 15, 2021 15407-15421*
- Li, B., *see* Wang, J., *JIoT Oct. 15, 2021 15126-15139*
- Li, B., *see* Jin, H., *JIoT Nov. 1, 2021 15776-15784*
- Li, B., *see* Zhao, Y., *JIoT Dec. 1, 2021 16933-16945*
- Li, B., *see* Guo, X., *JIoT Dec. 15, 2021 17802-17816*
- Li, C., Wang, H., and Song, R., Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity; *JIoT Feb. 15, 2021 2802-2813*
- Li, C., *see* Dai, C., *JIoT March 15, 2021 4855-4867*
- Li, C., *see* Zhu, L., *JIoT April 15, 2021 6828-6839*
- Li, C., *see* Hua, M., *JIoT May 1, 2021 7691-7705*
- Li, C., Dong, M., Li, J., Xu, G., Chen, X., and Ota, K., Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System; *JIoT May 1, 2021 7192-7202*
- Li, C., *see* Huang, G., *JIoT May 15, 2021 8543-8556*
- Li, C., *see* Jiang, H., *JIoT June 1, 2021 9450-9459*
- Li, C., *see* Gao, R., *JIoT Aug. 15, 2021 12955-12967*
- Li, C., *see* Gu, Y., *JIoT Sept. 15, 2021 14051-14065*
- Li, C., Huang, Y., Li, S., Chen, Y., Jalaian, B.A., Hou, Y.T., Lou, W., Reed, J.H., and Kompella, S., Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions; *JIoT Oct. 1, 2021 14543-14558*
- Li, C., Li, G., and Varshney, P.K., Communication-Efficient Federated Learning Based on Compressed Sensing; *JIoT Oct. 15, 2021 15531-15541*
- Li, C., *see* Raut, P., *JIoT Dec. 15, 2021 17655-17668*
- Li, D., *see* Gao, Z., *JIoT March 1, 2021 3422-3437*
- Li, D., *see* Zhang, K., *JIoT April 15, 2021 6709-6719*
- Li, D., Huang, X., Huang, W., Gao, F., and Yan, S., ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things; *JIoT May 1, 2021 7229-7240*

- Li, D., Wang, S., Zhao, H., and Wang, X., Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications; *JIoT May 15, 2021 8603-8615*
- Li, D., see Deng, X., *JIoT Aug. 15, 2021 12559-12568*
- Li, F., see Ding, X., *JIoT Jan. 15, 2021 802-812*
- Li, F., see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- Li, F., see Zhang, W., *JIoT Feb. 1, 2021 2000-2010*
- Li, F., see Chen, S., *JIoT March 1, 2021 3276-3286*
- Li, F., see Zhao, L., *JIoT May 1, 2021 7706-7716*
- Li, F., see Wang, Y., *JIoT Aug. 1, 2021 12455-12466*
- Li, G., Zhang, Z., Zhang, J., and Hu, A., Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation; *JIoT Jan. 1, 2021 357-369*
- Li, G., Li, Z., Guan, D., Huang, Z., Hu, W., Inserra, D., Li, J., Huang, Y., and Wen, G., A Hydrogen Concentration Monitoring System With Passive Tags; *JIoT June 1, 2021 9244-9256*
- Li, G., see Zhou, X., *JIoT July 15, 2021 11276-11289*
- Li, G., Mishra, D., and Jiang, H., Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access; *JIoT Sept. 15, 2021 14385-14398*
- Li, G., see Li, C., *JIoT Oct. 15, 2021 15531-15541*
- Li, G., see Huang, J., *JIoT Oct. 15, 2021 15228-15239*
- Li, G., Cao, J., Wu, J., Ren, X., and Yu, H., Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing; *JIoT Nov. 15, 2021 16440-16451*
- Li, H., see Yu, Y., *JIoT Feb. 1, 2021 1740-1748*
- Li, H., see Li, L., *JIoT March 15, 2021 4317-4328*
- Li, H., see Zhang, X., *JIoT July 1, 2021 10509-10517*
- Li, H., Kumar, V., Park, J., and Yang, Y., Cumulative Message Authentication Codes for Resource-Constrained IoT Networks; *JIoT Aug. 1, 2021 11847-11859*
- Li, H., see Wu, Y., *JIoT Oct. 1, 2021 14920-14933*
- Li, H., see Qin, X., *JIoT Oct. 1, 2021 14501-14513*
- Li, H., see Jin, H., *JIoT Nov. 1, 2021 15776-15784*
- Li, H., see Liang, H., *JIoT Nov. 15, 2021 16349-16358*
- Li, H., see Liu, L., *JIoT Dec. 1, 2021 17057-17070*
- Li, J., Ye, Y., Papadaskalopoulos, D., and Strbac, G., Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading; *JIoT Jan. 15, 2021 734-749*
- Li, J., see Lan, H., *JIoT Feb. 15, 2021 2814-2825*
- Li, J., see He, Y., *JIoT Feb. 15, 2021 2226-2237*
- Li, J., see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Li, J., see An, Y., *JIoT March 1, 2021 3554-3566*
- Li, J., see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
- Li, J., see Huang, C., *JIoT March 1, 2021 3331-3345*
- Li, J., see Wei, J., *JIoT March 15, 2021 4353-4372*
- Li, J., see Li, X., *JIoT April 1, 2021 5453-5467*
- Li, J., see Lv, Z., *JIoT April 1, 2021 5350-5359*
- Li, J., see Chen, C., *JIoT April 1, 2021 5309-5320*
- Li, J., see Liao, S., *JIoT April 1, 2021 5172-5184*
- Li, J., see Huang, Z., *JIoT April 15, 2021 6385-6392*
- Li, J., see Xu, X., *JIoT April 15, 2021 6187-6196*
- Li, J., see Wang, Q., *JIoT April 15, 2021 6853-6864*
- Li, J., see Zhu, Y., *JIoT May 1, 2021 7126-7139*
- Li, J., see Li, C., *JIoT May 1, 2021 7192-7202*
- Li, J., see Yao, B., *JIoT May 15, 2021 8514-8529*
- Li, J., see Li, G., *JIoT June 1, 2021 9244-9256*
- Li, J., see Lv, Z., *JIoT June 15, 2021 9531-9538*
- Li, J., see Jia, Z., *JIoT June 15, 2021 9814-9826*
- Li, J., see Shi, W., *JIoT June 15, 2021 9800-9813*
- Li, J., Liu, T., Niyato, D., Wang, P., and Han, Z., Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT); *JIoT June 15, 2021 10052-10070*
- Li, J., see Li, J., *JIoT June 15, 2021 10052-10070*
- Li, J., see Jiang, B., *JIoT July 1, 2021 10430-10451*
- Li, J., see Luo, P., *JIoT July 15, 2021 11476-11486*
- Li, J., Shi, W., Ye, Q., Zhang, N., Zhuang, W., and Shen, X., Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach; *JIoT July 15, 2021 11219-11232*
- Li, J., Zhang, W., Gao, G., Wen, Y., Jin, G., and Christopoulos, G., Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning; *JIoT July 15, 2021 11150-11162*
- Li, J., see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Li, J., see Kong, D., *JIoT Aug. 15, 2021 12880-12891*
- Li, J., Su, Z., Guo, D., Choo, K.R., and Ji, Y., PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things; *JIoT Sept. 1, 2021 13183-13195*
- Li, J., see Su, Y., *JIoT Oct. 15, 2021 15639-15648*
- Li, J., see Sun, J., *JIoT Nov. 1, 2021 15663-15671*
- Li, J., Shi, W., Ye, Q., Zhang, S., Zhuang, W., and Shen, X., Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks; *JIoT Nov. 15, 2021 16313-16325*
- Li, J., see Xu, H., *JIoT Nov. 15, 2021 16337-16348*
- Li, J., see Yuan, Q., *JIoT Nov. 15, 2021 16359-16369*
- Li, J., see Liu, Y., *JIoT Dec. 1, 2021 17227-17235*
- Li, J., see Ma, C., *JIoT Dec. 15, 2021 17308-17319*
- Li, J., see Cao, Y., *JIoT Dec. 15, 2021 17449-17459*
- Li, K., Luo, G., Ye, Y., Li, W., Ji, S., and Cai, Z., Adversarial Privacy-Preserving Graph Embedding Against Inference Attack; *JIoT April 15, 2021 6904-6915*
- Li, K., Muncuk, U., Naderi, M.Y., and Chowdhury, K.R., iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils; *JIoT April 15, 2021 6637-6648*
- Li, K., see Fan, Y., *JIoT June 1, 2021 9268-9277*
- Li, K., Ni, W., Tovar, E., and Guizani, M., Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach; *JIoT June 15, 2021 9787-9799*
- Li, K., see Yang, F., *JIoT Aug. 15, 2021 13095-13114*
- Li, K., see Liu, J., *JIoT Nov. 15, 2021 16290-16300*
- Li, L., Shi, D., Hou, R., Li, X., Wang, J., Li, H., and Pan, M., Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty; *JIoT March 15, 2021 4317-4328*
- Li, L., see Zuo, X., *JIoT March 15, 2021 4590-4603*
- Li, L., see Fan, Q., *JIoT April 1, 2021 5518-5530*
- Li, L., see Li, X., *JIoT April 1, 2021 5453-5467*
- Li, L., see Zhong, X., *JIoT May 15, 2021 8191-8209*
- Li, L., Chen, Y., Peng, H., and Yang, Y., Chaotic Deep Network for Mobile D2D Communication; *JIoT May 15, 2021 8078-8096*
- Li, L., see Xu, L.D., *JIoT July 1, 2021 10452-10473*
- Li, L., and Huang, X., Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks; *JIoT July 1, 2021 10518-10530*
- Li, L., see Zhang, K., *JIoT Aug. 1, 2021 11935-11959*
- Li, L., see Guo, Y., *JIoT Aug. 15, 2021 13014-13023*
- Li, L., see Peng, C., *JIoT Sept. 15, 2021 14287-14298*
- Li, L., see Liang, J., *JIoT Oct. 15, 2021 15276-15283*
- Li, M., see Yang, L., *JIoT Feb. 15, 2021 2318-2329*
- Li, M., see Yang, L., *JIoT Feb. 15, 2021 2330-2341*
- Li, M., see Jia, R., *JIoT March 15, 2021 4697-4710*
- Li, M., see Wang, H., *JIoT April 1, 2021 5230-5239*
- Li, M., see Wang, Z., *JIoT April 15, 2021 6733-6745*
- Li, M., see Liu, J., *JIoT May 1, 2021 7546-7561*
- Li, M., see Gao, J., *JIoT June 15, 2021 9958-9969*
- Li, M., see Gao, J., *JIoT June 15, 2021 9945-9957*
- Li, M., see Peng, K., *JIoT Aug. 1, 2021 12004-12020*
- Li, M., Wu, J., Wang, W., and Zhang, J., Toward Privacy-Preserving Task Assignment for Fully Distributed Spatial Crowdsourcing; *JIoT Sept. 15, 2021 13991-14002*
- Li, M., see Jia, R., *JIoT Sept. 15, 2021 14299-14307*
- Li, M.M., see Wan, G.C., *JIoT May 1, 2021 7476-7484*
- Li, N., see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Li, P., see Gao, J., *JIoT Jan. 15, 2021 951-961*

- Li, P., Long, Z., and Yang, Z., RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks; *JIoT March 1*, 2021 3512-3523
- Li, P., see Wang, Q., *JIoT Nov. 1*, 2021 16153-16164
- Li, P., see Wang, Q., *JIoT Nov. 1*, 2021 15953-15964
- Li, Q., see Shen, M., *JIoT Feb. 15*, 2021 2265-2275
- Li, Q., see Cui, L., *JIoT Feb. 15*, 2021 2395-2408
- Li, Q., see Zhou, B., *JIoT May 1*, 2021 7203-7213
- Li, Q., see Song, Y., *JIoT June 15*, 2021 9594-9602
- Li, Q., see Jin, R., *JIoT July 1*, 2021 10755-10765
- Li, Q., see Lai, C., *JIoT July 1*, 2021 10619-10630
- Li, Q., see Geng, B., *JIoT Aug. 1*, 2021 12279-12288
- Li, Q., see Wang, Y., *JIoT Oct. 1*, 2021 14999-15009
- Li, Q., see Zhang, B., *JIoT Oct. 15*, 2021 15140-15147
- Li, Q., see Tai, Y., *JIoT Nov. 1*, 2021 15965-15976
- Li, Q., and Lin, X., Efficient and Privacy-Preserving Speaker Recognition for Cyber-twin-Driven 6G; *JIoT Nov. 15*, 2021 16195-16206
- Li, Q., Mi, J., Li, W., Wang, J., and Cheng, M., CNN-Based Malware Variants Detection Method for Internet of Things; *JIoT Dec. 1*, 2021 16946-16962
- Li, Q., see Xu, H., *JIoT Dec. 15*, 2021 17678-17690
- Li, Q., see Peng, H., *JIoT Dec. 15*, 2021 17356-17371
- Li, R., see Firouzi, F., *JIoT Aug. 15*, 2021 12826-12846
- Li, R., Ma, Q., Gong, J., Zhou, Z., and Chen, X., Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications; *JIoT Oct. 1*, 2021 14471-14484
- Li, R., see Wang, C., *JIoT Dec. 1*, 2021 16911-16920
- Li, S., Hu, F., Xu, Z., Mao, Z., Ling, Z., and Liu, H., Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer ; *JIoT Jan. 15*, 2021 989-1000
- Li, S., see Wang, J., *JIoT Feb. 1*, 2021 2078-2079
- Li, S., Zhou, B., Hu, Q., Wang, J., Dai, J., Wang, W., Yuan, H., Cheng, Y., and Wu, J., A Secure Scheme Based on One-Way Associated Key Management Model in Wireless Sensor Networks; *JIoT Feb. 15*, 2021 2920-2930
- Li, S., see Liu, J., *JIoT March 15*, 2021 4389-4402
- Li, S., see Li, Y., *JIoT April 15*, 2021 6337-6347
- Li, S., see Zhang, J., *JIoT April 15*, 2021 6205-6213
- Li, S., see Qu, Y., *JIoT May 1*, 2021 7394-7406
- Li, S., see Wu, S., *JIoT June 15*, 2021 10085-10102
- Li, S., see Afisiadis, O., *JIoT July 15*, 2021 11581-11593
- Li, S., see Zhu, R., *JIoT Aug. 1*, 2021 12410-12421
- Li, S., see Ning, W., *JIoT Aug. 15*, 2021 12550-12558
- Li, S., see Li, C., *JIoT Oct. 1*, 2021 14543-14558
- Li, S., see Chen, J., *JIoT Oct. 15*, 2021 15191-15204
- Li, S., see Zhou, M., *JIoT Oct. 15*, 2021 15117-15125
- Li, S., see Huang, J., *JIoT Oct. 15*, 2021 15228-15239
- Li, S., see Xu, C., *JIoT Dec. 1*, 2021 16902-16910
- Li, T., see Tian, J., *JIoT Jan. 15*, 2021 1001-1015
- Li, T., Wang, H., He, D., and Yu, J., Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things; *JIoT May 15*, 2021 8387-8398
- Li, T., see Ma, J., *JIoT July 1*, 2021 10873-10883
- Li, T., Zhang, H., Zhou, X., and Yuan, D., Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast; *JIoT Aug. 15*, 2021 13039-13051
- Li, T., see Zaghoul, E., *JIoT Nov. 15*, 2021 16585-16597
- Li, T., Zhang, M., Li, Y., Lagerspetz, E., Tarkoma, S., and Hui, P., The Impact of Covid-19 on Smartphone Usage ; *JIoT Dec. 1*, 2021 16723-16733
- Li, W., see Pu, Z., *JIoT Jan. 1*, 2021 474-486
- Li, W., see Qi, H., *JIoT Feb. 15*, 2021 2124-2134
- Li, W., see Sheng, H., *JIoT March 1*, 2021 3189-3200
- Li, W., see Zhang, C., *JIoT March 1*, 2021 3157-3169
- Li, W., see Li, K., *JIoT April 15*, 2021 6904-6915
- Li, W., see Kang, Y., *JIoT May 15*, 2021 8488-8503
- Li, W., see Yu, Y., *JIoT June 1*, 2021 9359-9372
- Li, W., see Dong, W., *JIoT Sept. 1*, 2021 13703-13711
- Li, W., see Xiao, H., *JIoT Sept. 15*, 2021 13926-13938
- Li, W., see Ma, Y., *JIoT Oct. 15*, 2021 15382-15395
- Li, W., see Li, Q., *JIoT Dec. 1*, 2021 16946-16962
- Li, X., see Makarfi, A.U., *JIoT Jan. 1*, 2021 443-457
- Li, X., see Zhang, W., *JIoT Feb. 1*, 2021 1406-1416
- Li, X., Teng, L., Tang, H., Chen, J., Wang, H., Liu, Y., Fu, M., and Liang, J., ViPSN: A Vibration-Powered IoT Platform; *JIoT Feb. 1*, 2021 1728-1739
- Li, X., see Yang, L., *JIoT Feb. 15*, 2021 2330-2341
- Li, X., Chen, T., Cheng, Q., Ma, S., and Ma, J., Smart Applications in Edge Computing: Overview on Authentication and Data Security; *JIoT March 15*, 2021 4063-4080
- Li, X., see Li, L., *JIoT March 15*, 2021 4317-4328
- Li, X., Wang, Q., Liu, M., Li, J., Peng, H., Piran, M.J., and Li, L., Cooperative Wireless-Powered NOMA Relaying for 5G IoT Networks With Hardware Impairments and Channel Estimation Errors ; *JIoT April 1*, 2021 5453-5467
- Li, X., see Shi, S., *JIoT April 15*, 2021 6498-6518
- Li, X., see Jin, X., *JIoT April 15*, 2021 6324-6336
- Li, X., see Liu, Y., *JIoT May 1*, 2021 7450-7465
- Li, X., and Xu, L.D., A Review of Internet of Things—Resource Allocation; *JIoT June 1*, 2021 8657-8666
- Li, X., see Gao, J., *JIoT June 15*, 2021 9958-9969
- Li, X., see Liu, Y., *JIoT June 15*, 2021 9827-9837
- Li, X., see Gao, J., *JIoT June 15*, 2021 9945-9957
- Li, X., Zhou, Z., Shi, Z., Xue, X., and Duan, Y., Energy-Efficient Anomaly Detection With Primary and Secondary Attributes in Edge-Cloud Collaboration Networks; *JIoT Aug. 1*, 2021 12176-12188
- Li, X., see Guo, F., *JIoT Aug. 1*, 2021 11891-11915
- Li, X., see Li, Z., *JIoT Aug. 1*, 2021 12289-12310
- Li, X., see Xiao, G., *JIoT Aug. 15*, 2021 12748-12757
- Li, X., see Zhao, Y., *JIoT Sept. 1*, 2021 13750-13762
- Li, X., see Xu, L., *JIoT Sept. 1*, 2021 13355-13366
- Li, X., see Liang, Y., *JIoT Sept. 1*, 2021 13316-13327
- Li, X., see Yuan, H., *JIoT Oct. 1*, 2021 14985-14998
- Li, X., Zhang, C., He, C., Chen, G., and Chambers, J.A., Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks; *JIoT Oct. 1*, 2021 14959-14970
- Li, X., see Wu, F., *JIoT Oct. 15*, 2021 15216-15227
- Li, X., see Zhou, M., *JIoT Oct. 15*, 2021 15117-15125
- Li, X., Cai, J., Yang, J., Guo, L., Huang, S., and Yi, Y., Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks; *JIoT Nov. 15*, 2021 16598-16612
- Li, X., see Liu, Y., *JIoT Dec. 1*, 2021 17071-17089
- Li, X., see Cascales, J.P., *JIoT Dec. 15*, 2021 17557-17567
- Li, Y., see Zhang, J., *JIoT Jan. 1*, 2021 320-331
- Li, Y., see Chen, Y., *JIoT Jan. 1*, 2021 85-111
- Li, Y., see Liu, W., *JIoT Jan. 15*, 2021 723-733
- Li, Y., see Luo, X., *JIoT Jan. 15*, 2021 657-671
- Li, Y., see Chai, Z., *JIoT Jan. 15*, 2021 1109-1122
- Li, Y., see Sun, F., *JIoT Feb. 1*, 2021 1636-1650
- Li, Y., Huang, R., and Ma, L., False Data Injection Attack and Defense Method on Load Frequency Control; *JIoT Feb. 15*, 2021 2910-2919
- Li, Y., see Zhang, J., *JIoT Feb. 15*, 2021 3027-3041
- Li, Y., see Zhu, Y., *JIoT March 1*, 2021 3689-3704
- Li, Y., see Cao, B., *JIoT March 1*, 2021 3099-3107
- Li, Y., see Zhang, J., *JIoT March 15*, 2021 4749-4761
- Li, Y., see Cao, X., *JIoT March 15*, 2021 4526-4539
- Li, Y., Xia, S., Yang, Q., Wang, G., and Zhang, W., Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things; *JIoT March 15*, 2021 4514-4525
- Li, Y., Zhuang, Y., Hu, X., Gao, Z., Hu, J., Chen, L., He, Z., Pei, L., Chen, K., Wang, M., Niu, X., Chen, R., Thompson, J., Ghannouchi, F.M., and El-Sheimy, N., Toward Location-Enabled IoT (LE-IoT): IoT Positioning Techniques, Error Sources, and Error Mitigation; *JIoT March 15*, 2021 4035-4062
- Li, Y., see Lin, K., *JIoT April 1*, 2021 5264-5273
- Li, Y., Ma, S., Yang, G., and Wong, K., Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks; *JIoT April 15*, 2021 6878-6892

- Li, Y.**, Xu, X., Xiao, J., Li, S., and Shen, H.T., Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs; *JIoT April 15, 2021* 6337-6347
- Li, Y.**, see Jin, X., *JIoT April 15, 2021* 6324-6336
- Li, Y.**, Zhou, Y., Jolfaei, A., Yu, D., Xu, G., and Zheng, X., Privacy-Preserving Federated Learning Framework Based on Chained Secure Multiparty Computing; *JIoT April 15, 2021* 6178-6186
- Li, Y.**, see Hui, S., *JIoT May 1, 2021* 7115-7125
- Li, Y.**, see Wen, P., *JIoT June 1, 2021* 9045-9058
- Li, Y.**, see Veluri, H., *JIoT June 1, 2021* 9219-9232
- Li, Y.**, see Yang, L., *JIoT June 15, 2021* 9717-9729
- Li, Y.**, see Song, Y., *JIoT June 15, 2021* 9594-9602
- Li, Y.**, see Tao, L., *JIoT July 15, 2021* 11548-11560
- Li, Y.**, see Srivastava, G., *JIoT Aug. 15, 2021* 12669-12678
- Li, Y.**, see Ouyang, B., *JIoT Sept. 15, 2021* 14013-14027
- Li, Y.**, see Li, B., *JIoT Oct. 1, 2021* 14485-14500
- Li, Y.**, see Su, Y., *JIoT Oct. 15, 2021* 15639-15648
- Li, Y.**, see Wang, H., *JIoT Oct. 15, 2021* 15422-15440
- Li, Y.**, Huang, R., and Ma, L., Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack; *JIoT Oct. 15, 2021* 15522-15530
- Li, Y.**, see Zhang, B., *JIoT Oct. 15, 2021* 15140-15147
- Li, Y.**, see Liu, J., *JIoT Nov. 1, 2021* 15807-15817
- Li, Y.**, Ma, X., Xu, M., Zhou, A., Sun, Q., Zhang, N., and Wang, S., Joint Placement of UPF and Edge Server for 6G Network; *JIoT Nov. 15, 2021* 16370-16378
- Li, Y.**, see Li, T., *JIoT Dec. 1, 2021* 16723-16733
- Li, Y.**, see Nadeem, F., *JIoT Dec. 15, 2021* 17596-17610
- Li, Z.**, see Yue, Y., *JIoT Jan. 15, 2021* 1183-1196
- Li, Z.**, Yang, Z., Szalachowski, P., and Zhou, J., Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things; *JIoT Jan. 15, 2021* 844-859
- Li, Z.**, see Zhao, Y., *JIoT Feb. 1, 2021* 1817-1829
- Li, Z.**, Xu, M., Nie, J., Kang, J., Chen, W., and Xie, S., NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach; *JIoT Feb. 15, 2021* 2364-2378
- Li, Z.**, see Zhao, L., *JIoT March 1, 2021* 3211-3223
- Li, Z.**, see Zhao, Y., *JIoT March 15, 2021* 4841-4854
- Li, Z.**, see Ma, Y., *JIoT April 1, 2021* 5822-5838
- Li, Z.**, see Zhang, W., *JIoT April 1, 2021* 5926-5937
- Li, Z.**, see Wang, D., *JIoT June 1, 2021* 9330-9343
- Li, Z.**, see Li, G., *JIoT June 1, 2021* 9244-9256
- Li, Z.**, see Zhang, H., *JIoT July 1, 2021* 10779-10791
- Li, Z.**, see Xu, X., *JIoT July 1, 2021* 10596-10607
- Li, Z.**, see Yang, J., *JIoT July 1, 2021* 10693-10705
- Li, Z.**, Lu, Y., Li, X., Wang, Z., Qiao, W., and Liu, Y., UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning; *JIoT Aug. 1, 2021* 12289-12310
- Li, Z.**, see Wang, C., *JIoT Aug. 15, 2021* 13024-13038
- Li, Z.**, see Ma, K., *JIoT Sept. 1, 2021* 13343-13354
- Li, Z.**, see Ma, Y., *JIoT Oct. 15, 2021* 15382-15395
- Li, Z.**, see Yuan, Q., *JIoT Nov. 15, 2021* 16359-16369
- Li, Z.**, see Liu, Y., *JIoT Dec. 1, 2021* 17071-17089
- Liang, B.**, see Yang, Z., *JIoT Dec. 1, 2021* 16779-16786
- Liang, C.**, see Xie, R., *JIoT Jan. 1, 2021* 345-356
- Liang, C.**, see Xu, Y., *JIoT Oct. 1, 2021* 14908-14919
- Liang, F.**, Yu, W., Liu, X., Griffith, D., and Gollmie, N., Toward Computing Resource Reservation Scheduling in Industrial Internet of Things; *JIoT May 15, 2021* 8210-8222
- Liang, F.**, see Liu, X., *JIoT Aug. 1, 2021* 12163-12175
- Liang, H.**, Li, H., and Zhang, W., A Combinatorial Auction Resource Trading Mechanism for Cybertwin-Based 6G Network; *JIoT Nov. 15, 2021* 16349-16358
- Liang, J.**, see Li, X., *JIoT Feb. 1, 2021* 1728-1739
- Liang, J.**, Qin, Z., Xue, L., Lin, X., and Shen, X., Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems; *JIoT Aug. 15, 2021* 12528-12539
- Liang, J.**, Li, L., and Zhao, C., A Transfer Learning Approach for Compressed Sensing in 6G-IoT; *JIoT Oct. 15, 2021* 15276-15283
- Liang, J.**, see Liang, Q., *JIoT Oct. 15, 2021* 15037-15040
- Liang, J.**, Tu, J., and Leung, V.C.M., Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities; *JIoT Nov. 1, 2021* 16083-16095
- Liang, J.**, Qin, Z., Xue, L., Lin, X., and Shen, X., Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services; *JIoT Dec. 1, 2021* 17029-17042
- Liang, L.**, see Hu, L., *JIoT July 15, 2021* 11329-11344
- Liang, Q.**, see Fu, M., *JIoT Oct. 15, 2021* 15059-15069
- Liang, Q.**, Durrani, T.S., Liang, J., Koh, J., and Wang, X., Guest Editorial Special Issue on 6G-Enabled Internet of Things; *JIoT Oct. 15, 2021* 15037-15040
- Liang, S.D.**, Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy; *JIoT Oct. 15, 2021* 15267-15275
- Liang, W.**, see Guo, Z., *JIoT Jan. 1, 2021* 512-527
- Liang, W.**, see Shi, H., *JIoT Jan. 1, 2021* 381-392
- Liang, W.**, see Fan, Y., *JIoT June 1, 2021* 9268-9277
- Liang, W.**, see Zhou, X., *JIoT Aug. 15, 2021* 12588-12596
- Liang, W.**, see Zhao, B., *JIoT Dec. 15, 2021* 17584-17595
- Liang, X.**, see Gao, Z., *JIoT June 15, 2021* 9981-9994
- Liang, Y.**, see Yao, S., *JIoT April 1, 2021* 6062-6076
- Liang, Y.**, see Xiang, Z., *JIoT April 1, 2021* 5697-5709
- Liang, Y.**, see Zhao, H., *JIoT May 15, 2021* 8064-8077
- Liang, Y.**, see Omwenga, M.M., *JIoT July 15, 2021* 11594-11606
- Liang, Y.**, see Ye, H., *JIoT Sept. 1, 2021* 13397-13413
- Liang, Y.**, Ma, N., Li, X., and Hu, J., Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles; *JIoT Sept. 1, 2021* 13316-13327
- Liao, H.**, Zhou, Z., Zhao, X., and Wang, Y., Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT; *JIoT April 1, 2021* 5250-5263
- Liao, J.**, see Chen, D., *JIoT Jan. 15, 2021* 813-828
- Liao, J.**, see Zhuang, Z., *JIoT Feb. 15, 2021* 2208-2225
- Liao, Q.**, see Ding, Y., *JIoT Aug. 15, 2021* 12505-12517
- Liao, S.**, Wu, J., Li, J., and Konstantin, K., Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach; *JIoT April 1, 2021* 5172-5184
- Liao, W.**, see Cai, M., *JIoT Jan. 1, 2021* 297-308
- Liao, W.**, see Xu, H., *JIoT March 15, 2021* 4668-4680
- Liao, X.**, see Chen, B., *JIoT Oct. 1, 2021* 15010-15023
- Liao, Z.**, Peng, J., Huang, J., Wang, J., Wang, J., Sharma, P.K., and Ghosh, U., Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things; *JIoT April 1, 2021* 5298-5308
- Liao, Z.**, Han, G., Wang, H., and Liu, L., Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things; *JIoT May 1, 2021* 7575-7588
- Liao, Z.**, see Gamaleldin, M., *JIoT June 1, 2021* 9373-9382
- Liao, Z.**, see Fu, J., *JIoT June 15, 2021* 9672-9682
- Liao, Z.**, Pan, H., Fan, X., Zhang, Y., and Kuang, L., Multiple Wavelet Convolutional Neural Network for Short-Term Load Forecasting; *JIoT June 15, 2021* 9730-9739
- Liao, Z.**, Ma, Y., Huang, J., Wang, J., and Wang, J., HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space; *JIoT July 1, 2021* 10940-10952
- Liao, Z.**, see Han, G., *JIoT Dec. 15, 2021* 17747-17761
- Librino, F.**, and Santi, P., The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI; *JIoT Sept. 1, 2021* 13266-13277
- Lifland, E.**, see Ma, M., *JIoT Aug. 1, 2021* 11793-11806
- Lim, A.**, see Wang, S., *JIoT Jan. 1, 2021* 572-584
- Lim, W.Y.B.**, see Liu, Y., *JIoT June 15, 2021* 9827-9837
- Lim, W.Y.B.**, Garg, S., Xiong, Z., Niyato, D., Leung, C., Miao, C., and Guizani, M., Dynamic Contract Design for Federated Learning in Smart Healthcare Applications; *JIoT Dec. 1, 2021* 16853-16862
- Lin, B.**, see Lyu, L., *JIoT May 15, 2021* 7889-7901

- Lin, C., *see* Huang, S., *JIoT Feb. 1, 2021 2051-2065*
- Lin, C., *see* Wang, P., *JIoT May 1, 2021 7562-7574*
- Lin, C., and Liu, K., Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage; *JIoT July 15, 2021 11249-11259*
- Lin, C., *see* Yan, X., *JIoT Sept. 15, 2021 14127-14140*
- Lin, C., *see* Wang, P., *JIoT Nov. 1, 2021 15863-15874*
- Lin, C., *see* Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
- Lin, F., *see* Luo, H., *JIoT July 1, 2021 10884-10895*
- Lin, H., *see* Tarekegn, G.B., *JIoT March 1, 2021 3717-3729*
- Lin, H., *see* Zhang, L., *JIoT May 1, 2021 7333-7345*
- Lin, H., *see* Wang, X., *JIoT July 1, 2021 10288-10298*
- Lin, H., *see* Chiang, Y., *JIoT Oct. 1, 2021 14435-14446*
- Lin, H., *see* Gao, Y., *JIoT Nov. 1, 2021 15785-15795*
- Lin, H., Garg, S., Hu, J., Wang, X., Jalil Piran, M., and Hossain, M.S., Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things; *JIoT Nov. 1, 2021 15683-15693*
- Lin, J., *see* Gao, P., *JIoT March 1, 2021 3287-3299*
- Lin, J., *see* Yu, C., *JIoT April 15, 2021 7103-7104*
- Lin, J., *see* Zhu, L., *JIoT May 1, 2021 7589-7599*
- Lin, J., *see* Zhang, M., *JIoT July 1, 2021 10830-10842*
- Lin, J., *see* Zhang, H., *JIoT Oct. 15, 2021 15596-15607*
- Lin, J., *see* Shang, J., *JIoT Nov. 15, 2021 16571-16584*
- Lin, J.C., Srivastava, G., Zhang, Y., Djenouri, Y., and Aloqaily, M., Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments; *JIoT April 1, 2021 5340-5349*
- Lin, J.C., *see* Syu, J., *JIoT July 1, 2021 10347-10355*
- Lin, J.C., *see* Srivastava, G., *JIoT Aug. 15, 2021 12669-12678*
- Lin, K., Li, Y., Zhang, Q., and Fortino, G., AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT; *JIoT April 1, 2021 5264-5273*
- Lin, K., and Hao, T., Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks; *JIoT April 15, 2021 6565-6577*
- Lin, K., *see* Zhang, Y., *JIoT Dec. 1, 2021 16872-16879*
- Lin, M., Xu, M., Wan, X., Liu, H., Wu, Z., Liu, J., Deng, B., Guan, D., and Zha, S., Single Sensor to Estimate DOA With Programmable Metasurface; *JIoT June 15, 2021 10187-10197*
- Lin, M., *see* Lin, Z., *JIoT July 15, 2021 11123-11134*
- Lin, N., *see* Han, J., *JIoT June 15, 2021 9683-9696*
- Lin, N., Zhao, Q., Zhao, L., Hawbani, A., Liu, L., and Min, G., A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks; *JIoT Sept. 15, 2021 14080-14093*
- Lin, P., *see* Wang, D., *JIoT June 1, 2021 9294-9304*
- Lin, P., Song, Q., Yu, F.R., Wang, D., and Guo, L., Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning; *JIoT Nov. 1, 2021 15749-15761*
- Lin, Q., *see* He, Y., *JIoT Feb. 15, 2021 2226-2237*
- Lin, S., *see* Lai, W., *JIoT Jan. 15, 2021 1016-1029*
- Lin, T., *see* Ku, M., *JIoT Aug. 15, 2021 12983-12998*
- Lin, X., *see* Lu, C., *JIoT March 15, 2021 4931-4943*
- Lin, X., *see* Haddadpajouh, H., *JIoT March 15, 2021 4540-4547*
- Lin, X., *see* Zheng, Y., *JIoT May 15, 2021 8399-8410*
- Lin, X., *see* Zhang, A., *JIoT May 15, 2021 7874-7888*
- Lin, X., *see* Wu, L., *JIoT July 15, 2021 11357-11367*
- Lin, X., *see* Liang, J., *JIoT Aug. 15, 2021 12528-12539*
- Lin, X., *see* Li, Q., *JIoT Nov. 15, 2021 16195-16206*
- Lin, X., *see* Xu, H., *JIoT Nov. 15, 2021 16337-16348*
- Lin, X., *see* Liang, J., *JIoT Dec. 1, 2021 17029-17042*
- Lin, Y., *see* Wei, J., *JIoT March 15, 2021 4353-4372*
- Lin, Y., and Hung, H., CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique; *JIoT April 15, 2021 6893-6903*
- Lin, Y., *see* Lin, Y., *JIoT April 15, 2021 6893-6903*
- Lin, Y., *see* Zhang, L., *JIoT May 1, 2021 7333-7345*
- Lin, Z., *see* Gu, B., *JIoT March 1, 2021 3066-3074*
- Lin, Z., Lin, M., de Cola, T., Wang, J., Zhu, W., and Cheng, J., Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks; *JIoT July 15, 2021 11123-11134*
- Lin, Z., *see* Wang, Z., *JIoT Sept. 15, 2021 14232-14247*
- Ling, Z., *see* Li, S., *JIoT Jan. 15, 2021 989-1000*
- Ling, Z., *see* Liu, K., *JIoT April 15, 2021 6815-6827*
- Lins, F.A.A., and Vieira, M., Security Requirements and Solutions for IoT Gateways: A Comprehensive Study; *JIoT June 1, 2021 8667-8679*
- Lipman, J., *see* Amiri, M., *JIoT March 15, 2021 4105-4131*
- Lipsitz, L.A., *see* Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
- Lira Neto, A.V., *see* Magaia, N., *JIoT April 15, 2021 6393-6405*
- Liu, A., *see* Guo, H., *JIoT Jan. 1, 2021 197-210*
- Liu, A., *see* Huang, X., *JIoT Jan. 1, 2021 610-625*
- Liu, A., *see* Wang, J., *JIoT March 1, 2021 3462-3475*
- Liu, A., *see* Shen, M., *JIoT April 15, 2021 6437-6453*
- Liu, A., *see* Zhu, X., *JIoT June 15, 2021 9763-9773*
- Liu, A., *see* Gao, Z., *JIoT June 15, 2021 9981-9994*
- Liu, B., *see* Zhang, J., *JIoT Jan. 15, 2021 1140-1153*
- Liu, B., *see* Jin, X., *JIoT April 15, 2021 6324-6336*
- Liu, B., *see* Guo, Y., *JIoT Aug. 15, 2021 13014-13023*
- Liu, B., *see* Zhang, Y., *JIoT Sept. 15, 2021 13958-13974*
- Liu, C., *see* Xiao, W., *JIoT April 15, 2021 6305-6312*
- Liu, C., *see* Cheng, J., *JIoT May 1, 2021 7521-7530*
- Liu, C., and Du, H., t , K -Sweep Coverage With Mobile Sensor Nodes in Wireless Sensor Networks; *JIoT Sept. 15, 2021 13888-13899*
- Liu, C., *see* Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
- Liu, C., *see* Na, Z., *JIoT Oct. 15, 2021 15041-15048*
- Liu, C., *see* Cui, W., *JIoT Nov. 15, 2021 16705-16717*
- Liu, D., Wang, S., Wen, Z., Cheng, L., Wen, M., and Wu, Y., Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning; *JIoT Feb. 15, 2021 2959-2975*
- Liu, D., *see* Chen, B., *JIoT July 1, 2021 10248-10263*
- Liu, D., *see* Jiang, H., *JIoT Oct. 1, 2021 14658-14671*
- Liu, F., *see* Wang, W., *JIoT April 1, 2021 5274-5284*
- Liu, F., *see* Yu, J., *JIoT Nov. 15, 2021 16498-16509*
- Liu, F., *see* Wu, H., *JIoT Dec. 1, 2021 16972-16983*
- Liu, G., Quan, W., Cheng, N., Gao, D., Lu, N., Zhang, H., and Shen, X., Softwarized IoT Network Immunity Against Eavesdropping With Programmable Data Planes; *JIoT April 15, 2021 6578-6590*
- Liu, G., *see* Long, Y., *JIoT July 1, 2021 10896-10910*
- Liu, G., *see* Chen, X., *JIoT July 1, 2021 10843-10856*
- Liu, G., *see* Seid, A.M., *JIoT Aug. 1, 2021 12203-12218*
- Liu, G., *see* Ma, R., *JIoT Sept. 1, 2021 13222-13236*
- Liu, G., *see* Tian, W., *JIoT Dec. 15, 2021 17372-17381*
- Liu, H., *see* Gao, J., *JIoT Jan. 15, 2021 951-961*
- Liu, H., *see* Zhang, G., *JIoT Jan. 15, 2021 1057-1070*
- Liu, H., *see* Li, S., *JIoT Jan. 15, 2021 989-1000*
- Liu, H., *see* Huang, C., *JIoT March 1, 2021 3331-3345*
- Liu, H., *see* Sharma, P., *JIoT March 15, 2021 4991-4999*
- Liu, H., *see* Lin, M., *JIoT June 15, 2021 10187-10197*
- Liu, H., *see* Wu, L., *JIoT July 15, 2021 11357-11367*
- Liu, H., *see* Yan, J., *JIoT Oct. 1, 2021 14623-14637*
- Liu, H., Wang, S., Gong, S., Zhao, N., An, J., and Quek, T.Q.S., Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization; *JIoT Oct. 1, 2021 14458-14470*
- Liu, H., *see* Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Liu, H., Xie, H., Luo, H., Qi, J., Goh, H.H., and Rahman, S., Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation; *JIoT Dec. 1, 2021 17100-17110*
- Liu, J., *see* Xu, Y., *JIoT Feb. 15, 2021 3000-3013*
- Liu, J., *see* Xu, Y., *JIoT Feb. 15, 2021 3000-3013*
- Liu, J., *see* Zhang, J., *JIoT March 15, 2021 4403-4416*
- Liu, J., Wu, G., Zhang, X., Fang, S., and Li, S., Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry; *JIoT March 15, 2021 4389-4402*
- Liu, J., *see* Qian, Y., *JIoT May 1, 2021 7676-7690*
- Liu, J., Wang, X., Shen, S., Yue, G., Yu, S., and Li, M., A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud; *JIoT May 1, 2021 7546-7561*
- Liu, J., *see* Wu, C., *JIoT June 1, 2021 9151-9163*
- Liu, J., *see* Lin, M., *JIoT June 15, 2021 10187-10197*

- Liu, J., see Fu, J., *JIoT June 15, 2021 9672-9682*
- Liu, J., see Wang, C., *JIoT Sept. 15, 2021 14248-14257*
- Liu, J., see Han, R., *JIoT Oct. 1, 2021 14447-14457*
- Liu, J., see Gong, B., *JIoT Nov. 1, 2021 16121-16141*
- Liu, J., see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Liu, J., Miao, F., Yin, L., Pang, Z., and Li, Y., A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients; *JIoT Nov. 1, 2021 15807-15817*
- Liu, J., see Rodrigues, T.K., *JIoT Nov. 15, 2021 16231-16242*
- Liu, J., Yu, Y., Li, K., and Gao, L., Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G; *JIoT Nov. 15, 2021 16290-16300*
- Liu, J., see Yang, S., *JIoT Dec. 1, 2021 17186-17198*
- Liu, K., see Liu, Y., *JIoT Feb. 1, 2021 1322-1333*
- Liu, K., see Guo, L., *JIoT March 1, 2021 3851-3863*
- Liu, K., Yang, M., Ling, Z., Yan, H., Zhang, Y., Fu, X., and Zhao, W., On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems; *JIoT April 15, 2021 6815-6827*
- Liu, K., see Lin, C., *JIoT July 15, 2021 11249-11259*
- Liu, K., see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Liu, K.J.R., see Wang, F., *JIoT Feb. 1, 2021 1294-1307*
- Liu, K.J.R., see Zhang, F., *JIoT April 15, 2021 6995-7008*
- Liu, K.J.R., see Zeng, X., *JIoT June 15, 2021 10131-10145*
- Liu, K.J.R., see Regani, S.D., *JIoT Sept. 1, 2021 13291-13305*
- Liu, K.J.R., see Wang, F., *JIoT Nov. 15, 2021 16623-16636*
- Liu, L., see Kang, X., *JIoT Jan. 1, 2021 636-646*
- Liu, L., see Ma, J., *JIoT Feb. 1, 2021 1492-1503*
- Liu, L., Feng, J., Pei, Q., Chen, C., Ming, Y., Shang, B., and Dong, M., Blockchain-Enabled Secure Data Sharing Scheme in Mobile-Edge Computing: An Asynchronous Advantage Actor-Critic Learning Approach; *JIoT Feb. 15, 2021 2342-2353*
- Liu, L., see Han, G., *JIoT April 1, 2021 5219-5229*
- Liu, L., Sun, B., Wu, Y., and Tsang, D.H.K., Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission; *JIoT April 15, 2021 6677-6691*
- Liu, L., Lu, S., Zhong, R., Wu, B., Yao, Y., Zhang, Q., and Shi, W., Computing Systems for Autonomous Driving: State of the Art and Challenges; *JIoT April 15, 2021 6469-6486*
- Liu, L., see Liao, Z., *JIoT May 1, 2021 7575-7588*
- Liu, L., see Feng, J., *JIoT June 1, 2021 9407-9421*
- Liu, L., see Gao, Y., *JIoT July 15, 2021 11100-11111*
- Liu, L., see Song, H., *JIoT July 15, 2021 11208-11218*
- Liu, L., see Wang, C., *JIoT Aug. 1, 2021 11822-11833*
- Liu, L., see Gao, R., *JIoT Aug. 15, 2021 12955-12967*
- Liu, L., see Lin, N., *JIoT Sept. 15, 2021 14080-14093*
- Liu, L., see Zhang, F., *JIoT Sept. 15, 2021 14156-14170*
- Liu, L., Xi, Z., and Wu, J., Strengthening the Achilles' Heel: An AUV-Aided Message Ferry Approach Against Dissemination Vulnerability in UASNs; *JIoT Oct. 1, 2021 14948-14958*
- Liu, L., Xu, X., Liu, Y., Ma, Z., and Peng, J., A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network; *JIoT Oct. 15, 2021 15249-15258*
- Liu, L., Qin, X., Xu, X., Li, H., Yu, F.R., and Zhang, P., Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices; *JIoT Dec. 1, 2021 17057-17070*
- Liu, L., see Qi, Y., *JIoT Dec. 15, 2021 17762-17777*
- Liu, L., see Bai, J., *JIoT Dec. 15, 2021 17417-17428*
- Liu, M., see Yang, M., *JIoT Jan. 1, 2021 370-380*
- Liu, M., see Yang, M., *JIoT Jan. 1, 2021 370-380*
- Liu, M., see Wang, J., *JIoT Feb. 1, 2021 1883-1895*
- Liu, M., Du, J., Zhou, Q., Cao, Z., and Liu, Y., EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls; *JIoT April 1, 2021 5585-5598*
- Liu, M., see Li, X., *JIoT April 1, 2021 5453-5467*
- Liu, M., see Pal, R., *JIoT May 1, 2021 7360-7371*
- Liu, M., see Ma, C., *JIoT June 1, 2021 9344-9358*
- Liu, M., Zhuo, X., Wei, Y., Wu, Y., and Qu, F., Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks; *JIoT June 1, 2021 8990-9004*
- Liu, M., see Fu, S., *JIoT June 15, 2021 10209-10219*
- Liu, M., see Pal, R., *JIoT July 15, 2021 11773-11775*
- Liu, M., see Zhang, T., *JIoT Nov. 1, 2021 16002-16013*
- Liu, N., see Yang, M., *JIoT Jan. 1, 2021 370-380*
- Liu, N., see Ma, C., *JIoT June 1, 2021 9344-9358*
- Liu, P., see Zhang, J., *JIoT March 1, 2021 3323-3330*
- Liu, P., and Jiang, T., Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading; *JIoT April 1, 2021 6114-6126*
- Liu, P., see Hawbani, A., *JIoT June 1, 2021 8976-8989*
- Liu, P., see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Liu, P., see Wu, H., *JIoT July 15, 2021 11514-11525*
- Liu, P., see Ma, K., *JIoT Sept. 1, 2021 13343-13354*
- Liu, P., see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- Liu, P., Ma, K., Yang, J., Yang, B., Liu, Z., and Guan, X., Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications; *JIoT Nov. 15, 2021 16559-16570*
- Liu, Q., see Xie, C., *JIoT Feb. 15, 2021 2635-2648*
- Liu, Q., see Xiong, M., *JIoT Feb. 15, 2021 2875-2885*
- Liu, Q., see Wang, Y., *JIoT Sept. 1, 2021 13640-13651*
- Liu, Q., see Fu, M., *JIoT Oct. 15, 2021 15059-15069*
- Liu, Q., Liu, R., Wang, Z., Han, L., and Thompson, J.S., A V2X-Integrated Positioning Methodology in Ultradense Networks; *JIoT Dec. 1, 2021 17014-17028*
- Liu, Q., Liu, Y., Zhang, C., Ruan, Z., Meng, W., Cai, Y., and Ai, Q., sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm; *JIoT Dec. 1, 2021 16835-16844*
- Liu, R., see Liu, Q., *JIoT Dec. 1, 2021 17014-17028*
- Liu, R.W., Nie, J., Garg, S., Xiong, Z., Zhang, Y., and Hossain, M.S., Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems; *JIoT April 1, 2021 5374-5385*
- Liu, S., see Shi, H., *JIoT Jan. 1, 2021 381-392*
- Liu, S., see Zhao, Y., *JIoT April 1, 2021 5619-5631*
- Liu, S., see Yin, R., *JIoT April 15, 2021 6720-6732*
- Liu, S., see Kang, Y., *JIoT May 15, 2021 8488-8503*
- Liu, S., see Chang, Z., *JIoT Sept. 15, 2021 13849-13875*
- Liu, S., and Zhang, J., Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things; *JIoT Oct. 15, 2021 15170-15179*
- Liu, S., see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Liu, T., Zhang, Y., Zhu, Y., Tong, W., and Yang, Y., Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing; *JIoT April 15, 2021 6649-6664*
- Liu, T., see Li, J., *JIoT June 15, 2021 10052-10070*
- Liu, T., see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Liu, W., Nair, G., Li, Y., Nestic, D., Vucetic, B., and Poor, H.V., On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT; *JIoT Jan. 15, 2021 723-733*
- Liu, W., see Zhu, Z., *JIoT March 1, 2021 3831-3850*
- Liu, W., Chang, S., Liu, Y., and Zhang, H., Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi; *JIoT March 15, 2021 4681-4696*
- Liu, W., see Yang, X., *JIoT March 15, 2021 4980-4990*
- Liu, W., see Yang, X., *JIoT March 15, 2021 4980-4990*
- Liu, W., see Du, J., *JIoT May 15, 2021 7849-7862*
- Liu, W., see Xia, D., *JIoT July 15, 2021 11666-11677*
- Liu, W., see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- Liu, W., see Zhang, B., *JIoT Oct. 15, 2021 15140-15147*
- Liu, W., see Zhang, F., *JIoT Nov. 15, 2021 16522-16534*
- Liu, W., see Zhang, Y., *JIoT Dec. 1, 2021 16872-16879*
- Liu, X., see Wang, S., *JIoT Feb. 1, 2021 1358-1372*
- Liu, X., see Xi, Z., *JIoT Feb. 1, 2021 1651-1661*
- Liu, X., see Xu, H., *JIoT March 15, 2021 4668-4680*
- Liu, X., see Liang, F., *JIoT May 15, 2021 8210-8222*
- Liu, X., see Dai, C., *JIoT June 15, 2021 9697-9705*

- Liu, X.**, see Chen, D., *JIoT July 15, 2021 11415-11426*
- Liu, X.**, Wu, L., Dai, C., and Chao, H., Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things; *JIoT July 15, 2021 11041-11051*
- Liu, X.**, Yu, W., Liang, F., Griffith, D., and Golmie, N., Toward Deep Transfer Learning in Industrial Internet of Things ; *JIoT Aug. 1, 2021 12163-12175*
- Liu, X.**, see Ma, R., *JIoT Sept. 1, 2021 13222-13236*
- Liu, X.**, see Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Liu, X.**, see Wang, J., *JIoT Oct. 15, 2021 15096-15106*
- Liu, X.**, Ding, H., and Hu, S., Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things; *JIoT Oct. 15, 2021 15049-15058*
- Liu, X.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Liu, X.**, see Wang, X., *JIoT Dec. 15, 2021 17639-17654*
- Liu, X.**, see Zhao, B., *JIoT Dec. 15, 2021 17584-17595*
- Liu, Y.**, see Cheng, Y., *JIoT Jan. 1, 2021 144-155*
- Liu, Y.**, see Chen, Y., *JIoT Jan. 1, 2021 85-111*
- Liu, Y.**, Chen, X., Cai, L.X., Chen, Q., and Zhang, R., Nonorthogonal Multiple Access for Wireless-Powered IoT Networks; *JIoT Jan. 1, 2021 112-128*
- Liu, Y.**, see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Liu, Y.**, see Zhao, Y., *JIoT Feb. 1, 2021 1817-1829*
- Liu, Y.**, Liu, K., Han, J., Zhu, L., Xiao, Z., and Xia, X., Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications; *JIoT Feb. 1, 2021 1322-1333*
- Liu, Y.**, see Zhao, L., *JIoT Feb. 1, 2021 2066-2077*
- Liu, Y.**, Wang, J., Li, J., Song, H., Yang, T., Niu, S., and Ming, Z., Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices ; *JIoT Feb. 15, 2021 2627-2634*
- Liu, Y.**, see Sheng, H., *JIoT March 1, 2021 3189-3200*
- Liu, Y.**, see Liu, W., *JIoT March 15, 2021 4681-4696*
- Liu, Y.**, see Liu, M., *JIoT April 1, 2021 5585-5598*
- Liu, Y.**, see Huang, J., *JIoT April 1, 2021 5531-5543*
- Liu, Y.**, see Xu, J., *JIoT April 1, 2021 5762-5777*
- Liu, Y.**, see Zhang, W., *JIoT April 1, 2021 5926-5937*
- Liu, Y.**, see He, W., *JIoT April 15, 2021 6293-6304*
- Liu, Y.**, Garg, S., Nie, J., Zhang, Y., Xiong, Z., Kang, J., and Hossain, M.S., Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach; *JIoT April 15, 2021 6348-6358*
- Liu, Y.**, see Tushir, B., *JIoT April 15, 2021 6282-6292*
- Liu, Y.**, see Guo, X., *JIoT April 15, 2021 6665-6676*
- Liu, Y.**, see Wang, P., *JIoT May 1, 2021 7562-7574*
- Liu, Y.**, Lu, H., Li, X., Zhang, Y., Xi, L., and Zhao, D., Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach; *JIoT May 1, 2021 7450-7465*
- Liu, Y.**, Wang, H., Peng, M., Guan, J., and Wang, Y., An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning; *JIoT May 15, 2021 8616-8631*
- Liu, Y.**, Nie, J., Li, X., Ahmed, S.H., Lim, W.Y.B., and Miao, C., Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms; *JIoT June 15, 2021 9827-9837*
- Liu, Y.**, see Chang, H., *JIoT June 15, 2021 9865-9877*
- Liu, Y.**, see Yang, F., *JIoT June 15, 2021 10170-10186*
- Liu, Y.**, see Han, P., *JIoT July 1, 2021 10557-10572*
- Liu, Y.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Liu, Y.**, Chin, K., and Yang, C., Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks; *JIoT Aug. 1, 2021 12266-12278*
- Liu, Y.**, Xiao, M., Chen, S., Bai, F., Pan, J., and Zhang, D., An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV; *JIoT Aug. 1, 2021 12231-12241*
- Liu, Y.**, see Li, Z., *JIoT Aug. 1, 2021 12289-12310*
- Liu, Y.**, Wang, Y., Shen, X., Wang, J., and Shen, Y., UAV-Aided Relative Localization of Terminals; *JIoT Aug. 15, 2021 12999-13013*
- Liu, Y.**, see Ren, L., *JIoT Aug. 15, 2021 12578-12587*
- Liu, Y.**, see Yan, X., *JIoT Sept. 15, 2021 14127-14140*
- Liu, Y.**, see Song, Z., *JIoT Sept. 15, 2021 14202-14218*
- Liu, Y.**, see Liu, L., *JIoT Oct. 15, 2021 15249-15258*
- Liu, Y.**, see Na, Z., *JIoT Oct. 15, 2021 15041-15048*
- Liu, Y.**, see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- Liu, Y.**, see Gao, Y., *JIoT Nov. 1, 2021 15785-15795*
- Liu, Y.**, see Chen, Z., *JIoT Nov. 15, 2021 16279-16289*
- Liu, Y.**, Yu, M., Xia, B., Wang, S., Wang, M., Chen, M., Dai, S., Wang, T., and Ye, T.T., E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking; *JIoT Nov. 15, 2021 16486-16497*
- Liu, Y.**, Lu, Y., Li, X., Li, Z., Qiao, W., Zhang, Y., and Zhao, D., A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things; *JIoT Dec. 1, 2021 17071-17089*
- Liu, Y.**, Wang, J., Li, J., Niu, S., and Song, H., Class-Incremental Learning for Wireless Device Identification in IoT; *JIoT Dec. 1, 2021 17227-17235*
- Liu, Y.**, see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
- Liu, Y.**, see Fan, W., *JIoT Dec. 15, 2021 17691-17704*
- Liu, Y.**, see Qi, Y., *JIoT Dec. 15, 2021 17762-17777*
- Liu, Z.**, see Hou, L., *JIoT Feb. 15, 2021 2419-2430*
- Liu, Z.**, see Zhu, Z., *JIoT March 1, 2021 3831-3850*
- Liu, Z.**, see Chen, Z., *JIoT April 1, 2021 5839-5849*
- Liu, Z.**, Huang, F., Weng, J., Cao, K., Miao, Y., Guo, J., and Wu, Y., BTMPP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks; *JIoT April 1, 2021 5386-5407*
- Liu, Z.**, see Lan, G., *JIoT Sept. 15, 2021 14110-14126*
- Liu, Z.**, Wu, L., Meng, W., Wang, H., and Wang, W., Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT; *JIoT Sept. 15, 2021 14322-14337*
- Liu, Z.**, see Zhan, C., *JIoT Oct. 15, 2021 15553-15567*
- Liu, Z.**, see Liu, P., *JIoT Nov. 15, 2021 16659-16670*
- Liu, Z.**, see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Liu, Z.**, see Xu, Y., *JIoT Dec. 1, 2021 17161-17171*
- Liwang, M.**, see Su, Y., *JIoT Jan. 15, 2021 791-801*
- Lloret, J.**, see Choudhury, N., *JIoT Jan. 1, 2021 168-178*
- Lloret, J.**, see Han, T., *JIoT March 1, 2021 3170-3179*
- Lo, K.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Lo, O.**, see Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
- Lo, S.K.**, see Zhang, W., *JIoT April 1, 2021 9257-9267*
- Lo, S.K.**, see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Loan, N.A.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- Lobo, D.**, see Abichandani, P., *JIoT Feb. 1, 2021 1783-1796*
- Lodi, A.**, see Costa, L.R., *JIoT May 1, 2021 7316-7332*
- Loh, P.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Lohani, D.**, see Kumar, N., *JIoT Jan. 15, 2021 869-880*
- Lohani, D.**, see Rastogi, K., *JIoT June 1, 2021 9257-9267*
- Lohiya, R.**, and Thakkar, A., Application Domains, Evaluation Data Sets, and Research Challenges of IoT: A Systematic Review; *JIoT June 1, 2021 8774-8798*
- Long, C.**, see Wei, L., *JIoT March 15, 2021 4775-4787*
- Long, C.**, see Yang, Y., *JIoT Aug. 15, 2021 12490-12504*
- Long, H.**, see Zhang, Y., *JIoT May 15, 2021 8223-8233*
- Long, K.**, see Qiu, Y., *JIoT Nov. 1, 2021 15875-15883*
- Long, Y.**, Huang, G., Tang, D., Zhao, S., and Liu, G., Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications; *JIoT July 1, 2021 10896-10910*
- Long, Z.**, see Li, P., *JIoT March 1, 2021 3512-3523*
- Lopez, J.C.**, see Caruso, A., *JIoT Nov. 15, 2021 16692-16704*
- Lopez, L.**, see Chen, Y., *JIoT Aug. 1, 2021 12360-12374*
- Lopez, O.L.A.**, Montejó-Sánchez, S., Souza, R.D., Papadías, C.B., and Alves, H., On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer; *JIoT Jan. 1, 2021 278-296*
- Lopez, O.L.A.**, Alves, H., Souza, R.D., Montejó-Sánchez, S., Fernández, E.M.G., and Latva-Aho, M., Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era; *JIoT June 1, 2021 8816-8835*
- Lopez, O.L.A.**, see Rosabal, O.M., *JIoT July 1, 2021 10531-10542*
- Lorenz, P.**, see Bala Krishna, M., *JIoT Jan. 1, 2021 407-417*
- Lorenz, P.**, see da Cruz, M.A.A., *JIoT May 15, 2021 7902-7911*
- Lototsky, S.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- Lototsky, S.**, see Pal, R., *JIoT July 15, 2021 11773-11775*

- Lou, R., see Lv, Z., *JIoT April 1*, 2021 5350-5359
- Lou, R., see Lv, Z., *JIoT April 15*, 2021 6273-6281
- Lou, W., see Shi, S., *JIoT April 15*, 2021 6498-6518
- Lou, W., see Li, C., *JIoT Oct. 1*, 2021 14543-14558
- Lou, X., see Zhu, J., *JIoT Aug. 1*, 2021 12350-12359
- Loveless, T.D., see Reising, D., *JIoT May 15*, 2021 8356-8371
- Lu, C., and Lin, X., Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras ; *JIoT March 15*, 2021 4931-4943
- Lu, D., see Zhang, G., *JIoT Jan. 15*, 2021 1057-1070
- Lu, G., see Du, J., *JIoT May 15*, 2021 7849-7862
- Lu, G., see Shi, L., *JIoT July 1*, 2021 10731-10744
- Lu, H., see Shi, Z., *JIoT March 1*, 2021 3476-3489
- Lu, H., see Shen, M., *JIoT April 15*, 2021 6437-6453
- Lu, H., Ho, P., and Guizani, M., Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities; *JIoT April 15*, 2021 6140-6142
- Lu, H., see Liu, Y., *JIoT May 1*, 2021 7450-7465
- Lu, H., see Han, J., *JIoT June 15*, 2021 9683-9696
- Lu, H., see Chen, B., *JIoT July 1*, 2021 10248-10263
- Lu, J., see Cao, J., *JIoT March 1*, 2021 3758-3773
- Lu, J., see Qiu, H., *JIoT March 1*, 2021 3180-3188
- Lu, J., see Jia, R., *JIoT March 15*, 2021 4697-4710
- Lu, J., see Dou, F., *JIoT April 15*, 2021 6519-6535
- Lu, J., see Wang, C., *JIoT June 1*, 2021 9317-9329
- Lu, J., see Wei, T., *JIoT June 1*, 2021 8910-8934
- Lu, J., see Qiu, H., *JIoT July 1*, 2021 10327-10335
- Lu, J., see Ren, L., *JIoT Aug. 15*, 2021 12578-12587
- Lu, J., see Yin, B., *JIoT Sept. 1*, 2021 13567-13581
- Lu, J., see Jia, R., *JIoT Sept. 15*, 2021 14299-14307
- Lu, J., Jin, R., Song, E., Alrashoud, M., Al-Mutib, K.N., S. Al-Rakhami, M., An Explainable System for Diagnosis and Prognosis of COVID-19 ; *JIoT Nov. 1*, 2021 15839-15846
- Lu, K., see Zhang, J., *JIoT Jan. 15*, 2021 1140-1153
- Lu, L., see Yan, X., *JIoT Sept. 15*, 2021 14127-14140
- Lu, M., see Zhao, S., *JIoT Jan. 15*, 2021 1082-1094
- Lu, M., see Zhao, S., *JIoT June 1*, 2021 9030-9044
- Lu, M., see Zhao, S., *JIoT June 1*, 2021 8883-8896
- Lu, N., see Liu, G., *JIoT April 15*, 2021 6578-6590
- Lu, P., see Wu, D., *JIoT May 1*, 2021 7346-7359
- Lu, Q., see Cui, L., *JIoT Feb. 15*, 2021 2395-2408
- Lu, Q., see Zhang, W., *JIoT April 1*, 2021 5926-5937
- Lu, Q., see Zhang, W., *JIoT Nov. 1*, 2021 15884-15891
- Lu, R., see Wang, J., *JIoT Jan. 15*, 2021 927-940
- Lu, R., see Rahulamathavan, Y., *JIoT Feb. 1*, 2021 1417-1427
- Lu, R., see Mahdikhani, H., *JIoT March 15*, 2021 4762-4774
- Lu, R., see Zhan, Y., *JIoT April 1*, 2021 5973-5984
- Lu, R., see Zhang, S., *JIoT June 1*, 2021 9139-9150
- Lu, R., see Zeng, P., *JIoT July 1*, 2021 10963-10972
- Lu, R., see Zhang, X., *JIoT July 15*, 2021 11758-11772
- Lu, R., see Guan, Y., *JIoT Sept. 15*, 2021 14219-14231
- Lu, R., see Guan, Y., *JIoT Nov. 15*, 2021 16243-16255
- Lu, R., see Jiao, J., *JIoT Dec. 15*, 2021 17403-17416
- Lu, S., see Liu, L., *JIoT April 15*, 2021 6469-6486
- Lu, S., Yao, Y., and Shi, W., CLONE: Collaborative Learning on the Edges; *JIoT July 1*, 2021 10222-10236
- Lu, T., see Gao, J., *JIoT Jan. 15*, 2021 951-961
- Lu, W., Si, P., Huang, G., Han, H., Qian, L., Zhao, N., and Gong, Y., SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network; *JIoT Oct. 15*, 2021 15070-15080
- Lu, X., see Xiao, Y., *JIoT March 15*, 2021 4560-4568
- Lu, X., see Yang, H., *JIoT April 15*, 2021 6940-6948
- Lu, Y., Huang, X., Zhang, K., Maharjan, S., and Zhang, Y., Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks; *JIoT Feb. 15*, 2021 2276-2288
- Lu, Y., see Qi, S., *JIoT Feb. 15*, 2021 2886-2899
- Lu, Y., see Xu, L.D., *JIoT July 1*, 2021 10452-10473
- Lu, Y., see Yang, L., *JIoT July 15*, 2021 11290-11304
- Lu, Y., see Li, Z., *JIoT Aug. 1*, 2021 12289-12310
- Lu, Y., Maharjan, S., and Zhang, Y., Adaptive Edge Association for Wireless Digital Twin Networks in 6G; *JIoT Nov. 15*, 2021 16219-16230
- Lu, Y., see Liu, Y., *JIoT Dec. 1*, 2021 17071-17089
- Lu, Z., see Chen, Y., *JIoT Jan. 1*, 2021 85-111
- Lu, Z., see Chen, L., *JIoT Aug. 15*, 2021 12610-12622
- Luan, T.H., see Zhu, L., *JIoT April 15*, 2021 6828-6839
- Luan, T.H., see Dong, X., *JIoT May 15*, 2021 8032-8043
- Lucani, D.E., see Yazdani, N., *JIoT Oct. 1*, 2021 14514-14530
- Lucani, D.E., see Vestergaard, R., *JIoT Dec. 15*, 2021 17568-17583
- Lucas, G.M., see Aryal, A., *JIoT April 15*, 2021 7089-7100
- Luis, M., see Fernandes, R., *JIoT Sept. 1*, 2021 13487-13502
- Lukkien, J., see Saeed, A., *JIoT Jan. 15*, 2021 1030-1040
- Lukowicz, P., see Smerdov, A., *JIoT Nov. 15*, 2021 16680-16691
- Luo, A., see Firouzi, F., *JIoT Aug. 15*, 2021 12826-12846
- Luo, B., Yao, Y., and Sun, Z., Performance Analysis Models of BLE Neighbor Discovery: A Survey; *JIoT June 1*, 2021 8734-8746
- Luo, B., see Zhou, Q., *JIoT Aug. 1*, 2021 11916-11934
- Luo, C., see Chakraborty, N., *JIoT March 1*, 2021 3255-3267
- Luo, C., see Zhang, J., *JIoT May 1*, 2021 7610-7624
- Luo, C., see Miao, W., *JIoT June 15*, 2021 9934-9944
- Luo, D.X., see Wang, H., *JIoT Oct. 15*, 2021 15422-15440
- Luo, G., see Li, K., *JIoT April 15*, 2021 6904-6915
- Luo, G., see Yuan, Q., *JIoT Nov. 15*, 2021 16359-16369
- Luo, H., see Wang, Q., *JIoT Feb. 1*, 2021 2011-2026
- Luo, H., see Zhu, Y., *JIoT Feb. 1*, 2021 1544-1556
- Luo, H., Wang, C., Zhang, F., Lin, F., and Xu, G., G2F: A Secure User Authentication for Rapid Smart Home IoT Management; *JIoT July 1*, 2021 10884-10895
- Luo, H., see Luo, H., *JIoT July 1*, 2021 10884-10895
- Luo, H., see Yang, X., *JIoT Aug. 15*, 2021 12968-12982
- Luo, H., see Liu, H., *JIoT Dec. 1*, 2021 17100-17110
- Luo, J., see Xi, Z., *JIoT Feb. 1*, 2021 1651-1661
- Luo, J., see Xing, G., *JIoT June 1*, 2021 9005-9013
- Luo, J., see Deng, X., *JIoT Aug. 15*, 2021 12559-12568
- Luo, J., Yang, Y., Wang, Z., and Chen, Y., Localization Algorithm for Underwater Sensor Network: A Review; *JIoT Sept. 1*, 2021 13126-13144
- Luo, L., see Yuan, H., *JIoT Oct. 1*, 2021 14985-14998
- Luo, M., see Peng, C., *JIoT Sept. 15*, 2021 14287-14298
- Luo, P., Yu, F.R., Chen, J., Li, J., and Leung, V.C.M., A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things; *JIoT July 15*, 2021 11476-11486
- Luo, Q., see Ding, Y., *JIoT Aug. 15*, 2021 12505-12517
- Luo, S., see Zuo, X., *JIoT March 15*, 2021 4590-4603
- Luo, W., Shen, Y., Yang, B., Wang, S., and Guan, X., Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer; *JIoT May 15*, 2021 7833-7848
- Luo, W., Zhou, X., Yang, J., Peng, P., Xiao, G., and Gao, Y., Efficient Approaches to Top-r Influential Community Search; *JIoT Aug. 15*, 2021 12650-12657
- Luo, X., Li, Y., Wang, X., and Guan, X., Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids; *JIoT Jan. 15*, 2021 657-671
- Luo, X., see Yu, Y., *JIoT Feb. 1*, 2021 1740-1748
- Luo, X., see Gu, S., *JIoT Feb. 15*, 2021 2135-2149
- Luo, X., see Zhao, W., *JIoT March 15*, 2021 4023-4034
- Luo, X., see Yang, A., *JIoT July 15*, 2021 11607-11620
- Luo, X., see Yan, J., *JIoT Sept. 15*, 2021 14338-14354
- Luo, X., see Zhao, H., *JIoT Sept. 15*, 2021 14094-14109
- Luo, X., see Wang, Z., *JIoT Sept. 15*, 2021 14003-14012
- Luo, X., see Yuan, H., *JIoT Oct. 1*, 2021 14985-14998
- Luo, Y., Cheng, L., Hu, H., Peng, G., and Yao, D., Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT ; *JIoT Feb. 15*, 2021 2736-2750
- Luo, Y., see Zhang, C., *JIoT March 1*, 2021 3157-3169
- Luo, Y., see Zhu, X., *JIoT June 15*, 2021 9763-9773
- Luo, Z., see Sodhro, A.H., *JIoT April 1*, 2021 5141-5148

Luong, D.K., see Oguntala, G.A., *JIoT July 1, 2021 10953-10962*
Luz, P.D.G.D., see De Oliveira, L.F.P., *JIoT March 1, 2021 3384-3393*
Lv, K., see Sheng, H., *JIoT March 1, 2021 3189-3200*
Lv, T., see Wang, Z., *JIoT Sept. 15, 2021 14232-14247*
Lv, Y., see Lan, H., *JIoT Feb. 15, 2021 2814-2825*
Lv, Z., see Cao, B., *JIoT March 1, 2021 3099-3107*
Lv, Z., see Zhang, Z., *JIoT April 1, 2021 6012-6023*
Lv, Z., Lou, R., Li, J., Singh, A.K., and Song, H., Big Data Analytics for 6G-Enabled Massive Internet of Things; *JIoT April 1, 2021 5350-5359*
Lv, Z., Chen, D., Lou, R., and Song, H., Industrial Security Solution for Virtual Reality; *JIoT April 15, 2021 6273-6281*
Lv, Z., Qiao, L., Li, J., and Song, H., Deep-Learning-Enabled Security Issues in the Internet of Things; *JIoT June 15, 2021 9531-9538*
Lyu, F., see Cao, X., *JIoT March 15, 2021 4526-4539*
Lyu, F., see Chen, W., *JIoT Nov. 15, 2021 16510-16521*
Lyu, L., see Zhao, Y., *JIoT Feb. 1, 2021 1817-1829*
Lyu, L., Dai, Y., Cheng, N., Zhu, S., Guan, X., Lin, B., and Shen, X., AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems; *JIoT May 15, 2021 7889-7901*
Lyu, L., see Zhao, Y., *JIoT June 1, 2021 8836-8853*
Lyu, M., see Chen, B., *JIoT July 1, 2021 10248-10263*
Lyu, W., see Sheng, H., *JIoT Feb. 15, 2021 2193-2207*
Lyu, W., see Sheng, H., *JIoT March 1, 2021 3189-3200*

M

Ma, A., see Fang, J., *JIoT Aug. 15, 2021 12771-12781*
Ma, C., Zhu, J., Liu, M., Zhao, H., Liu, N., and Zou, X., Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs; *JIoT June 1, 2021 9344-9358*
Ma, C., Li, J., Ding, M., Wei, K., Chen, W., and Poor, H.V., Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design; *JIoT Dec. 15, 2021 17308-17319*
Ma, D., see Guo, D., *JIoT Aug. 1, 2021 12137-12149*
Ma, G., see Ma, Y., *JIoT March 1, 2021 3490-3499*
Ma, H., see Kang, X., *JIoT Jan. 1, 2021 636-646*
Ma, H., see Gao, Y., *JIoT July 15, 2021 11100-11111*
Ma, H., see Wang, C., *JIoT Aug. 1, 2021 11822-11833*
Ma, H., see Ding, L., *JIoT Aug. 1, 2021 12150-12162*
Ma, H., see Chen, D., *JIoT Sept. 1, 2021 13367-13383*
Ma, J., see Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
Ma, J., Liu, L., Song, H., and Fan, P., On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications; *JIoT Feb. 1, 2021 1492-1503*
Ma, J., see Li, X., *JIoT March 15, 2021 4063-4080*
Ma, J., see Dong, X., *JIoT May 15, 2021 8032-8043*
Ma, J., Li, T., Cui, J., Ying, Z., and Cheng, J., Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain; *JIoT July 1, 2021 10873-10883*
Ma, J., see Guo, K., *JIoT Aug. 15, 2021 12623-12637*
Ma, J., see Wang, X., *JIoT Dec. 15, 2021 17639-17654*
Ma, K., see Cai, L., *JIoT Feb. 15, 2021 3014-3026*
Ma, K., Li, Z., Liu, P., Yang, J., Geng, Y., Yang, B., and Guan, X., Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay; *JIoT Sept. 1, 2021 13343-13354*
Ma, K., see Liu, P., *JIoT Nov. 15, 2021 16559-16570*
Ma, L., see Li, Y., *JIoT Feb. 15, 2021 2910-2919*
Ma, L., Pei, Q., Zhou, L., Zhu, H., Wang, L., and Ji, Y., Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence; *JIoT April 15, 2021 6757-6770*
Ma, L., see Gao, R., *JIoT Aug. 15, 2021 12955-12967*
Ma, L., see Li, Y., *JIoT Oct. 15, 2021 15522-15530*
Ma, M., see Xing, G., *JIoT June 1, 2021 9005-9013*
Ma, M., Zhu, A., Guo, S., and Yang, Y., Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q-Learning Method; *JIoT Aug. 1, 2021 11877-11890*
Ma, M., Bartocci, E., Lifland, E., Stankovic, J.A., and Feng, L., A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities; *JIoT Aug. 1, 2021 11793-11806*
Ma, M., see Chen, B., *JIoT Oct. 1, 2021 15010-15023*
Ma, N., see Liang, Y., *JIoT Sept. 1, 2021 13316-13327*
Ma, Q., see Li, R., *JIoT Oct. 1, 2021 14471-14484*
Ma, R., Wang, R., Liu, G., Meng, W., and Liu, X., UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks; *JIoT Sept. 1, 2021 13222-13236*
Ma, R., see Yang, F., *JIoT Nov. 1, 2021 15892-15905*
Ma, S., see Li, X., *JIoT March 15, 2021 4063-4080*
Ma, S., see Zhang, H., *JIoT April 1, 2021 5632-5644*
Ma, S., see Li, Y., *JIoT April 15, 2021 6878-6892*
Ma, S., see Mo, Y., *JIoT Sept. 15, 2021 14039-14050*
Ma, S., see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
Ma, T., see Wang, T., *JIoT March 1, 2021 3369-3383*
Ma, T., see Xu, Y., *JIoT July 15, 2021 11427-11439*
Ma, W., see Han, H., *JIoT Feb. 15, 2021 3042-3052*
Ma, W., see Zhang, Q., *JIoT June 15, 2021 10071-10084*
Ma, X., Zhou, A., Sun, Q., and Wang, S., Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing; *JIoT Aug. 15, 2021 13115-13125*
Ma, X., see Li, Y., *JIoT Nov. 15, 2021 16370-16378*
Ma, Y., Ma, G., and Ai, B., Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario; *JIoT March 1, 2021 3490-3499*
Ma, Y., Li, Z., Malekian, R., Zheng, S., and Sotelo, M.A., A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon; *JIoT April 1, 2021 5822-5838*
Ma, Y., see Xiao, C., *JIoT April 1, 2021 5669-5681*
Ma, Y., see Yang, J., *JIoT April 15, 2021 6416-6424*
Ma, Y., see Liao, Z., *JIoT July 1, 2021 10940-10952*
Ma, Y., Yuan, Z., Li, W., and Li, Z., Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT; *JIoT Oct. 15, 2021 15382-15395*
Ma, Y., see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
Ma, Z., see Dai, C., *JIoT June 15, 2021 9697-9705*
Ma, Z., see Liu, L., *JIoT Oct. 15, 2021 15249-15258*
Macedo, D., see Freitas de Araujo-Filho, P., *JIoT April 15, 2021 6247-6256*
Madeiro, J.P.d.V., see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
Madhukumar, N., Wang, E., Zhang, Y., and Xiang, W., Consensus Forecast of Rainfall Using Hybrid Climate Learning Model; *JIoT May 1, 2021 7270-7278*
Maeda, J., see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
Magaia, N., Fonseca, R., Muhammad, K., Segundo, A.H.F.N., Lira Neto, A.V., and de Albuquerque, V.H.C., Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities; *JIoT April 15, 2021 6393-6405*
Magaia, N., Gomes, P., Silva, L., Sousa, B., Mavromoustakis, C.X., and Mastorakis, G., Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies; *JIoT Nov. 15, 2021 16452-16472*
Magno, M., see Scherer, M., *JIoT July 1, 2021 10336-10346*
Maharjan, S., see Lu, Y., *JIoT Feb. 15, 2021 2276-2288*
Maharjan, S., see Xu, X., *JIoT July 1, 2021 10596-10607*
Maharjan, S., see Lu, Y., *JIoT Nov. 15, 2021 16219-16230*
Mahdikhani, H., Lu, R., Shao, J., and Ghorbani, A., Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT; *JIoT March 15, 2021 4762-4774*
Mahgoub, I., see Badi, A., *JIoT Sept. 1, 2021 13582-13592*
Mahmood, A., see Beltramelli, L., *JIoT May 15, 2021 7912-7924*
Mahmood, K., see Michelinakis, F., *JIoT Jan. 15, 2021 1224-1242*
Mahmood, K., see Saleem, M.A., *JIoT Nov. 15, 2021 16613-16622*
Mahmoodi, T., see Nassef, O., *JIoT Feb. 15, 2021 2540-2557*
Mahmoud, M., see Ibrahim, M.I., *JIoT Dec. 1, 2021 17131-17146*
Mahmoud, M.M.E.A., see Ibrahim, M.I., *JIoT Jan. 15, 2021 1243-1258*
Mahmud, U., see Hussain, S., *JIoT June 15, 2021 9484-9494*

- Mahyoub, M.**, Hasan Mahmoud, A.S., Abu-Amara, M., and Sheltami, T.R., An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT; *JIoT May 1, 2021 7152-7169*
- Mai, T.**, see He, W., *JIoT April 15, 2021 6293-6304*
- Majeed, K.**, and Hranilovic, S., Passive Indoor Visible Light Positioning System Using Deep Learning; *JIoT Oct. 1, 2021 14810-14821*
- Maji, S.**, Banerjee, U., and Chandrakasan, A.P., Leaky Nets: Recovering Embedded Neural Network Models and Inputs Through Simple Power and Timing Side-Channels—Attacks and Defenses; *JIoT Aug. 1, 2021 12079-12092*
- Makarfi, A.U.**, Rabie, K.M., Kaiwartya, O., Adhikari, K., Naurzybayev, G., Li, X., and Kharel, R., Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling; *JIoT Jan. 1, 2021 443-457*
- Maksimovic, F.**, see Chang, T., *JIoT Feb. 1, 2021 1846-1858*
- Malaga, M.P.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Malarski, K.M.**, Thrane, J., Christiansen, H.L., and Ruepp, S., Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios; *JIoT April 15, 2021 6746-6756*
- Malekian, R.**, see Sha, C., *JIoT Feb. 15, 2021 2649-2669*
- Malekian, R.**, see Ma, Y., *JIoT April 1, 2021 5822-5838*
- Malik, A.W.**, see Iqbal, S., *JIoT Oct. 1, 2021 14746-14755*
- Mamatas, L.**, see Theodorou, T., *JIoT March 15, 2021 4604-4617*
- Mamvong, J.N.**, Goteng, G.L., Zhou, B., and Gao, Y., Efficient Security Algorithm for Power-Constrained IoT Devices; *JIoT April 1, 2021 5498-5509*
- Mandayam, N.B.**, see Ferdowsi, A., *JIoT Feb. 15, 2021 2857-2874*
- Manera, L.T.**, see De Oliveira, L.F.P., *JIoT March 1, 2021 3384-3393*
- Mangia, M.**, see Burrello, A., *JIoT March 15, 2021 4433-4447*
- Manjakkal, L.**, Mitra, S., Petillot, Y.R., Shutler, J., Scott, E.M., Willander, M., and Dahiya, R., Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring; *JIoT Sept. 15, 2021 13805-13824*
- Manjarres, J.**, see Lan, G., *JIoT Sept. 15, 2021 14110-14126*
- Manman, L.**, see Mukherjee, A., *JIoT April 1, 2021 5194-5201*
- Manogaran, G.**, Srivastava, G., Muthu, B.A., Baskar, S., Mohamed Shakeel, P., Hsu, C., Bashir, A.K., and Kumar, P.M., A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things; *JIoT March 1, 2021 3360-3368*
- Manogaran, G.**, Hsu, C., Rawal, B.S., Muthu, B., Mavromoustakis, C.X., and Mastorakis, G., ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0; *JIoT March 1, 2021 3120-3129*
- Manor, B.**, see Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
- Manzoor, U.**, see Awais, M., *JIoT Dec. 1, 2021 16863-16871*
- Mao, S.**, see Wang, X., *JIoT March 15, 2021 4498-4513*
- Mao, S.**, see Misra, S., *JIoT April 15, 2021 6975-6982*
- Mao, S.**, see Zhan, C., *JIoT Oct. 15, 2021 15553-15567*
- Mao, S.**, see Duan, S., *JIoT Dec. 1, 2021 17147-17160*
- Mao, X.**, see Gao, J., *JIoT Jan. 1, 2021 428-442*
- Mao, Z.**, see Li, S., *JIoT Jan. 15, 2021 989-1000*
- Marcenaro, L.**, see Kanapram, D.T., *JIoT March 1, 2021 3224-3241*
- Marchese, M.**, see Kanapram, D.T., *JIoT March 1, 2021 3224-3241*
- Marchioni, A.**, see Burrello, A., *JIoT March 15, 2021 4433-4447*
- Marco-Alaaz, R.**, see Segura-Garcia, J., *JIoT Aug. 1, 2021 12467-12475*
- Marini, R.**, Ceroni, W., and Buratti, C., A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks; *JIoT Feb. 15, 2021 2670-2680*
- Marino, R.**, Wisultschew, C., Otero, A., Lanza-Gutierrez, J.M., Portilla, J., Torre, E.d.I., A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT; *JIoT March 15, 2021 4339-4352*
- Markantonakis, K.**, see Yang, A., *JIoT July 15, 2021 11607-11620*
- Marques, J.A.L.**, Han, T., Wu, W., Madeiro, J.P.d.V., Neto, A.V.L., Gravina, R., Fortino, G., and de Albuquerque, V.H.C., IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring; *JIoT Dec. 1, 2021 16814-16824*
- Marrocco, G.**, see Bianco, G.M., *JIoT Feb. 1, 2021 1985-1999*
- Martin, S.**, see Fawaz, H., *JIoT April 1, 2021 5544-5557*
- Martin-Lammerding, D.**, Cordoba, A., Astrain, J.J., Medrano, P., and Villadanos, J., An Ontology-Based System to Collect WSN-UAS Data Effectively; *JIoT March 1, 2021 3636-3652*
- Martinez, I.**, Hafid, A.S., and Jarray, A., Design, Resource Management, and Evaluation of Fog Computing Systems: A Survey; *JIoT Feb. 15, 2021 2494-2516*
- Martinez-Garcia, M.**, see Han, G., *JIoT April 1, 2021 5219-5229*
- Martinez-Garcia, M.**, see Zhang, F., *JIoT Sept. 15, 2021 14156-14170*
- Martinez-Garcia, M.**, see Han, G., *JIoT Dec. 15, 2021 17747-17761*
- Martinez-Ortega, J.**, see Chen, Y., *JIoT Aug. 1, 2021 12360-12374*
- Martini, M.G.**, see Khan, N., *JIoT Jan. 1, 2021 596-609*
- Maruta, K.**, see Nakayama, Y., *JIoT Jan. 15, 2021 672-683*
- Masood, M.**, see Khalil, R.A., *JIoT July 15, 2021 11016-11040*
- Masouros, C.**, see Valiulahi, I., *JIoT March 1, 2021 3605-3618*
- Mastorakis, G.**, see Manogaran, G., *JIoT March 1, 2021 3120-3129*
- Mastorakis, G.**, see Magaia, N., *JIoT Nov. 15, 2021 16452-16472*
- Mastorakis, S.**, see Rehman, M.A.U., *JIoT May 1, 2021 7661-7675*
- Mastorakis, S.**, see Khan, F., *JIoT Oct. 1, 2021 14835-14844*
- Masud, M.**, Gaba, G.S., Alqahtani, S., Muhammad, G., Gupta, B.B., Kumar, P., and Ghoneim, A., A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care; *JIoT Nov. 1, 2021 15694-15703*
- Matam, R.**, see Choudhury, N., *JIoT Jan. 1, 2021 168-178*
- Mavromoustakis, C.X.**, see Manogaran, G., *JIoT March 1, 2021 3120-3129*
- Mavromoustakis, C.X.**, see Magaia, N., *JIoT Nov. 15, 2021 16452-16472*
- Mayer, P.**, see Scherer, M., *JIoT July 1, 2021 10336-10346*
- Mayes, K.**, see Yang, A., *JIoT July 15, 2021 11607-11620*
- Mazzenga, F.**, see Bianco, G.M., *JIoT Feb. 1, 2021 1985-1999*
- Mazzocca, N.**, see Casola, V., *JIoT Aug. 15, 2021 12724-12733*
- McCann, J.A.**, see Junejo, A.K., *JIoT April 15, 2021 6840-6852*
- McIntyre, W.**, see Abichandani, P., *JIoT Feb. 1, 2021 1783-1796*
- Medjiah, S.**, see Ouedraogo, C.A., *JIoT March 1, 2021 3885-3903*
- Medrano, P.**, see Martin-Lammerding, D., *JIoT March 1, 2021 3636-3652*
- Mei, X.**, see Yang, H., *JIoT April 15, 2021 6940-6948*
- Mejia-Aguilar, A.**, see Bianco, G.M., *JIoT Feb. 1, 2021 1985-1999*
- Mellouk, A.**, see Djamaa, B., *JIoT July 15, 2021 11400-11414*
- Memmi, G.**, see Qiu, H., *JIoT March 1, 2021 3180-3188*
- Memmi, G.**, see Qiu, H., *JIoT July 1, 2021 10327-10335*
- Men, A.**, see Wang, Q., *JIoT Feb. 1, 2021 2011-2026*
- Mendez, M.J.**, see Divan, M.J., *JIoT Aug. 1, 2021 11983-12003*
- Mendis, G.J.**, see Wu, Y., *JIoT June 15, 2021 9740-9752*
- Mendizabal, J.**, see Figueroa-Lorenzo, S., *JIoT Sept. 1, 2021 13306-13315*
- Mendoza-Bernal, J.**, see Gonzalez-Vidal, A., *JIoT Nov. 1, 2021 16108-16120*
- Meng, W.**, see Ma, R., *JIoT Sept. 1, 2021 13222-13236*
- Meng, W.**, see Liu, Z., *JIoT Sept. 15, 2021 14322-14337*
- Meng, W.**, Cai, Y., Yang, L.T., and Chiu, W., Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things; *JIoT Nov. 1, 2021 16014-16022*
- Meng, W.**, see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
- Meng, X.**, see Chen, T., *JIoT July 1, 2021 10766-10778*
- Meng, Y.**, see Qu, Y., *JIoT May 1, 2021 7394-7406*
- Meng, Y.**, see Yan, J., *JIoT Sept. 15, 2021 14338-14354*
- Menon, V.G.**, see Mumtaz, S., *JIoT April 1, 2021 5111-5113*
- Merad-Boudia, O.R.**, and Senouci, S.M., An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid; *JIoT April 15, 2021 6143-6153*
- Meratnia, N.**, see Mijuskovic, A., *JIoT Feb. 1, 2021 1797-1816*
- Mercuri, M.**, Sacco, G., Hornung, R., Zhang, P., Visser, H.J., Hijdra, M., Liu, Y., Pisa, S., van Liempd, B., and Torfs, T., 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments; *JIoT July 15, 2021 11065-11077*
- Mershad, K.**, SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles; *JIoT May 1, 2021 7407-7422*
- Mi, J.**, see Li, Q., *JIoT Dec. 1, 2021 16946-16962*
- Mi, Y.**, see Miao, W., *JIoT June 15, 2021 9934-9944*
- Miao, C.**, see Liu, Y., *JIoT June 15, 2021 9827-9837*

- Miao, C.**, see Lim, W.Y.B., *JIoT Dec. 1, 2021 16853-16862*
- Miao, F.**, see Liu, J., *JIoT Nov. 1, 2021 15807-15817*
- Miao, W.**, Luo, C., Min, G., Mi, Y., and Yu, Z., Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications; *JIoT June 15, 2021 9934-9944*
- Miao, Y.**, Song, J., Wang, H., Hu, L., Hassan, M.M., and Chen, M., Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing; *JIoT Feb. 15, 2021 2289-2299*
- Miao, Y.**, see Liu, Z., *JIoT April 1, 2021 5386-5407*
- Miao, Y.**, see Jiang, Y., *JIoT July 1, 2021 10356-10366*
- Miao, Y.**, see Wang, X., *JIoT Dec. 15, 2021 17639-17654*
- Michelinakis, F.**, Al-Selwi, A.S., Capuzzo, M., Zanella, A., Mahmood, K., and Elmokashfi, A., Dissecting Energy Consumption of NB-IoT Devices Empirically; *JIoT Jan. 15, 2021 1224-1242*
- Mijuskovic, A.**, Ullah, I., Bemthuis, R., Meratnia, N., and Havinga, P., Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms; *JIoT Feb. 1, 2021 1797-1816*
- Milis, G.M.**, Panayiotou, C.G., and Polycarpou, M.M., IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings; *JIoT Feb. 15, 2021 2615-2626*
- Min, D.**, see Nguyen, T.A., *JIoT Nov. 1, 2021 15704-15748*
- Min, G.**, see Zhao, L., *JIoT Feb. 1, 2021 2066-2077*
- Min, G.**, see Miao, W., *JIoT June 15, 2021 9934-9944*
- Min, G.**, see Peng, S., *JIoT July 1, 2021 10815-10829*
- Min, G.**, see Lin, N., *JIoT Sept. 15, 2021 14080-14093*
- Min, R.**, Wang, X., Zou, J., Gao, J., Wang, L., and Cao, Z., Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors; *JIoT Oct. 15, 2021 15396-15406*
- Min, X.**, see Sharif, A., *JIoT Jan. 15, 2021 889-900*
- Min, X.**, see Sharif, A., *JIoT Dec. 15, 2021 17495-17507*
- Ming, Y.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Ming, Z.**, see He, Y., *JIoT Feb. 15, 2021 2226-2237*
- Ming, Z.**, see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Ming, Z.**, see Cui, L., *JIoT Feb. 15, 2021 2395-2408*
- Ming, Z.**, see Yang, S., *JIoT June 15, 2021 9580-9593*
- Ming, Z.**, see Yang, S., *JIoT June 15, 2021 9580-9593*
- Mishra, D.**, see Li, G., *JIoT Sept. 15, 2021 14385-14398*
- Mishra, S.**, Salaun, L., Sung, C.W., and Chen, C.S., Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI; *JIoT July 15, 2021 11305-11319*
- Misra, R.**, see Prajapat, R., *JIoT Sept. 1, 2021 13593-13607*
- Misra, S.**, see Roy, S.K., *JIoT March 15, 2021 5023-5030*
- Misra, S.**, Deb, P.K., Koppala, N., Mukherjee, A., and Mao, S., S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots; *JIoT April 15, 2021 6975-6982*
- Misra, S.**, see Saha, R., *JIoT May 15, 2021 8456-8463*
- Misra, S.**, Rachuri, S.P., Deb, P.K., and Mukherjee, A., Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT; *JIoT June 15, 2021 10010-10017*
- Misra, S.**, see Tiwari, M., *JIoT July 1, 2021 10631-10638*
- Misra, S.**, see Ojha, T., *JIoT July 15, 2021 10973-10997*
- Misra, S.**, see Pathak, N., *JIoT Sept. 1, 2021 13145-13164*
- Misra, S.**, see Pathak, N., *JIoT Dec. 1, 2021 16845-16852*
- Mitra, S.**, see Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Mlika, Z.**, see Abouaomar, A., *JIoT July 15, 2021 11088-11099*
- Mlika, Z.**, and Cherkaoui, S., Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning; *JIoT Sept. 1, 2021 13624-13639*
- Mo, L.**, Kritikakou, A., Sentieys, O., and Cao, X., Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems; *JIoT May 15, 2021 8246-8258*
- Mo, L.**, see Xi, W., *JIoT Aug. 15, 2021 12758-12770*
- Mo, Y.**, Ma, S., Gong, H., Chen, Z., Zhang, J., and Tao, D., Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments; *JIoT Sept. 15, 2021 14039-14050*
- Mohaisen, D.**, see Abuhamad, M., *JIoT Jan. 1, 2021 65-84*
- Mohamed, A.**, see Singh, J., *JIoT April 1, 2021 5794-5805*
- Mohamed, A.**, see Saria Allahham, M., *JIoT April 15, 2021 6454-6468*
- Mohamed, A.**, see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- Mohamed Shakeel, P.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Mohammed, A.**, see Song, L., *JIoT April 15, 2021 6536-6548*
- Mohammed, I.**, see Qolomany, B., *JIoT Feb. 15, 2021 2943-2958*
- Mohammed, I.**, Tabatabai, S., Al-Fuqaha, A., Bouanani, F.E., Qadir, J., Qolomany, B., and Guizani, M., Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning; *JIoT April 1, 2021 5938-5952*
- Mohammed, M.A.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021 15919-15928*
- Mohanta, B.K.**, Jena, D., Ramasubbarreddy, S., Daneshmand, M., and Gandomi, A.H., Addressing Security and Privacy Issues of IoT Using Blockchain Technology; *JIoT Jan. 15, 2021 881-888*
- Mohanta, B.K.**, see Panda, S.S., *JIoT Aug. 15, 2021 12947-12954*
- Mohanty, S.P.**, see Egala, B.S., *JIoT July 15, 2021 11717-11731*
- Mohiuddin, I.**, see Almogren, A., *JIoT March 15, 2021 4485-4497*
- Mohiuddin, I.**, see Awan, K.A., *JIoT Nov. 1, 2021 15672-15682*
- Mohtadi, A.**, see Haddadpajouh, H., *JIoT March 15, 2021 4540-4547*
- Mollah, M.B.**, Zhao, J., Niyato, D., Lam, K., Zhang, X., Ghias, A.M.Y.M., Koh, L.H., and Yang, L., Blockchain for Future Smart Grid: A Comprehensive Survey; *JIoT Jan. 1, 2021 18-43*
- Mollah, M.B.**, Zhao, J., Niyato, D., Guan, Y.L., Yuen, C., Sun, S., Lam, K., and Koh, L.H., Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey; *JIoT March 15, 2021 4157-4185*
- Monazzah, A.M.H.**, see Safaei, B., *JIoT Jan. 15, 2021 1169-1182*
- Mondal, S.**, see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
- Monteiro, V.**, see Pei, X., *JIoT April 1, 2021 5240-5249*
- Montejo-Sanchez, S.**, see Lopez, O.L.A., *JIoT Jan. 1, 2021 278-296*
- Montejo-Sanchez, S.**, see Lopez, O.L.A., *JIoT June 1, 2021 8816-8835*
- Montejo-Sanchez, S.**, see Rosabal, O.M., *JIoT July 1, 2021 10531-10542*
- Montez, C.**, see de Jesus, G.G.M., *JIoT April 1, 2021 6053-6061*
- Moody, J.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Moon, J.**, Papaioannou, S., Laoudias, C., Kolios, P., and Kim, S., Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking; *JIoT Oct. 15, 2021 15441-15455*
- Moon, J.H.**, Park, J.J., Lee, K., and Kim, D.I., Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration; *JIoT Feb. 1, 2021 1437-1452*
- Moon, S.**, see Lee, B., *JIoT April 15, 2021 7046-7064*
- Moons, B.**, see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
- Moradi, F.**, Fitzgerald, E., and Landfeldt, B., Modeling DRX for D2D Communication; *JIoT Feb. 15, 2021 2574-2584*
- Moradi, R.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Morales, D.P.**, see Moreno-Cruz, F., *JIoT March 1, 2021 3678-3688*
- Moratori, P.**, see Borgiani, V., *JIoT March 15, 2021 4569-4578*
- Moreira, C.M.**, Kaddoum, G., Baek, J., and Selim, B., Task Allocation Framework For Software-Defined Fog v-RAN; *JIoT Sept. 15, 2021 14187-14201*
- Moreno-Cruz, F.**, Toral-Lopez, V., Cuevas, M.R., Salmeron, J.F., Rivadeneyra, A., and Morales, D.P., Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters; *JIoT March 1, 2021 3678-3688*
- Moschella, M.**, Ferraro, P., Crisostomi, E., and Shorten, R., Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies; *JIoT July 15, 2021 11112-11122*
- Mosher, R.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Mostofi, Y.**, see Korany, B., *JIoT April 15, 2021 6963-6974*
- Mou, Z.**, see Zhang, Y., *JIoT March 1, 2021 3786-3800*
- Moungla, H.**, see Serhane, O., *JIoT March 15, 2021 4081-4104*
- Mourad, A.**, Tout, H., Wahab, O.A., Otrouk, H., and Dbouk, T., Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection; *JIoT Jan. 15, 2021 829-843*
- Mourad, A.**, see Abdulrahman, S., *JIoT March 15, 2021 4723-4735*
- Mourad, A.**, see Abdulrahman, S., *JIoT April 1, 2021 5476-5497*
- Mousoulis, C.**, see Jiang, X., *JIoT Jan. 15, 2021 901-915*
- Mousoulis, C.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Moustafa, N.**, see Alkadi, O., *JIoT June 15, 2021 9463-9472*
- Mu, J.**, see Zhang, R., *JIoT Feb. 15, 2021 2517-2539*

- Mu, Y.**, see Zhang, L., *JIoT Jan. 1, 2021 156-167*
- Mu, Y.**, see Yang, W., *JIoT March 15, 2021 5000-5008*
- Mu, Y.**, see Rezaeibagha, F., *JIoT May 15, 2021 8056-8063*
- Mu, Y.**, see Zhang, L., *JIoT Oct. 1, 2021 14731-14745*
- Mu, Y.**, see Rezaeibagha, F., *JIoT Dec. 15, 2021 17669-17677*
- Mucientes, M.**, see Fernandez-Sanjurjo, M., *JIoT June 1, 2021 9177-9188*
- Mughal, D.M.**, Shah, S.T., and Chung, M.Y., An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks; *JIoT Sept. 1, 2021 13414-13424*
- Muhaidat, S.**, see Bariah, L., *JIoT April 1, 2021 5129-5140*
- Muhammad, G.**, see Xiao, W., *JIoT April 15, 2021 6305-6312*
- Muhammad, G.**, see Masud, M., *JIoT Nov. 1, 2021 15694-15703*
- Muhammad, G.**, and Hossain, M.S., Emotion Recognition for Cognitive Edge Computing Using Deep Learning; *JIoT Dec. 1, 2021 16894-16901*
- Muhammad, K.**, see Han, T., *JIoT March 1, 2021 3170-3179*
- Muhammad, K.**, see Sodhro, A.H., *JIoT April 1, 2021 5141-5148*
- Muhammad, K.**, see Magaia, N., *JIoT April 15, 2021 6393-6405*
- Muhammad, K.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- Muhammad, K.**, see Swain, C., *JIoT Aug. 15, 2021 12705-12715*
- Muhammad, K.**, see Parah, S.A., *JIoT Nov. 1, 2021 15652-15662*
- Mukherjee, A.**, Goswami, P., Khan, M.A., Manman, L., Yang, L., and Pillai, P., Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications; *JIoT April 1, 2021 5194-5201*
- Mukherjee, A.**, see Misra, S., *JIoT April 15, 2021 6975-6982*
- Mukherjee, A.**, see Misra, S., *JIoT June 15, 2021 10010-10017*
- Mukherjee, A.**, see Pathak, N., *JIoT Sept. 1, 2021 13145-13164*
- Mukherjee, A.**, see Pathak, N., *JIoT Dec. 1, 2021 16845-16852*
- Mukherjee, M.**, see Choudhury, N., *JIoT Jan. 1, 2021 168-178*
- Mukherjee, S.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Mukhopadhyay, B.**, Anchal, S., and Kar, S., Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications; *JIoT Sept. 1, 2021 13384-13396*
- Mukhopadhyay, S.**, see Chawla, N., *JIoT Nov. 15, 2021 16379-16394*
- Mukhopadhyay, S.C.**, see Thomas, D., *JIoT March 1, 2021 3587-3604*
- Mumtaz, S.**, Menon, V.G., Al-Dulaimi, A., Ashraf, M.I., and Guizani, M., Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions ; *JIoT April 1, 2021 5111-5113*
- Mumtaz, S.**, see Huang, F., *JIoT April 15, 2021 6197-6204*
- Munaye, Y.Y.**, see Tarekegn, G.B., *JIoT March 1, 2021 3717-3729*
- Muncuk, U.**, see Li, K., *JIoT April 15, 2021 6637-6648*
- Munir, K.**, see Sharif, A., *JIoT Dec. 15, 2021 17495-17507*
- Muntean, G.**, see Ibrar, M., *JIoT March 1, 2021 3130-3142*
- Murch, R.**, see Shen, S., *JIoT April 1, 2021 5850-5865*
- Murillo, J.M.**, see Herrera, J.L., *JIoT Dec. 1, 2021 17172-17185*
- Murthy, C.S.R.**, see Narayanan, R., *JIoT March 15, 2021 4417-4432*
- Murugesan, R.K.**, see Muzammal, S.M., *JIoT March 15, 2021 4186-4210*
- Musavian, L.**, see Goudarzi, S., *JIoT Jan. 15, 2021 976-988*
- Muthu, B.**, see Manogaran, G., *JIoT March 1, 2021 3120-3129*
- Muthu, B.A.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Muzammal, S.M.**, Murugesan, R.K., and Jhanjhi, N.Z., A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches; *JIoT March 15, 2021 4186-4210*
- Mysore Balasubramanya, N.**, see Jabbarvaziri, F., *JIoT May 15, 2021 8372-8386*
- Nadig, S.**, see Pinrod, V., *JIoT March 15, 2021 5009-5022*
- Naeem, B.**, see Kasi, S.K., *JIoT July 1, 2021 10308-10317*
- Naeem, F.**, see Tariq, M., *JIoT April 1, 2021 5468-5475*
- Nagasubramanian, G.**, Sakthivel, R.K., Patan, R., Sankayya, M., Daneshmand, M., and Gandomi, A.H., Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System; *JIoT Aug. 15, 2021 12847-12854*
- Nah, J.**, see Park, P., *JIoT May 15, 2021 7745-7767*
- Nai, H.**, see Jiang, H., *JIoT April 15, 2021 6167-6177*
- Nai, H.**, see Jiang, H., *JIoT June 15, 2021 9495-9510*
- Naiga, C.**, see Arzo, S.T., *JIoT Aug. 1, 2021 12021-12045*
- Nair, G.**, see Liu, W., *JIoT Jan. 15, 2021 723-733*
- Najafi, A.**, see Yu, W., *JIoT May 1, 2021 7638-7648*
- Nakamura, M.**, see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
- Nakayama, Y.**, and Maruta, K., Age-of-Information-Based Host Selection for Mobile User Provided Networks; *JIoT Jan. 15, 2021 672-683*
- Nallanathan, A.**, see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
- Nam, H.**, see Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Namuduri, K.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Naouri, A.**, Wu, H., Nouri, N.A., Dhelim, S., and Ning, H., A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading; *JIoT Aug. 15, 2021 13065-13076*
- Narayanan, R.**, and Murthy, C.S.R., A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms; *JIoT March 15, 2021 4417-4432*
- Nasraoui, L.**, and Ikki, S., Neighbor Discovery for ProSe and V2X Communications; *JIoT May 1, 2021 7241-7251*
- Nassef, O.**, Sequeira, L., Salam, E., and Mahmoodi, T., Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning; *JIoT Feb. 15, 2021 2540-2557*
- Nasser, N.**, see Sakib, S., *JIoT April 1, 2021 5285-5297*
- Naurzybayev, G.**, see Makarfi, A.U., *JIoT Jan. 1, 2021 443-457*
- Navas, R.E.**, Cuppens, F., Boulahia Cuppens, N., Toutain, L., and Papadopoulos, G.Z., MTD, Where Art Thou? A Systematic Review of Moving Target Defense Techniques for IoT; *JIoT May 15, 2021 7818-7832*
- Navimipour, N.J.**, see Sadrishojaei, M., *JIoT July 1, 2021 10652-10664*
- Navimipour, N.J.**, see Sefati, S., *JIoT Oct. 15, 2021 15620-15627*
- Nepal, S.**, see Karmakar, K.K., *JIoT April 15, 2021 6549-6564*
- Nepal, S.**, see Zhu, F., *JIoT July 15, 2021 11678-11689*
- Neri, M.**, see Caso, G., *JIoT July 15, 2021 11384-11399*
- Neri, M.**, see Caso, G., *JIoT Sept. 1, 2021 13774-13788*
- Nesic, D.**, see Liu, W., *JIoT Jan. 15, 2021 723-733*
- Neto, A.V.L.**, see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
- Nevat, I.**, see Chakraborty, B., *JIoT July 15, 2021 11052-11064*
- Ng, B.K.K.**, see Lau, B.P.L., *JIoT July 15, 2021 11503-11513*
- Ng, L.J.**, see Tan, E., *JIoT Sept. 15, 2021 14308-14321*
- Ng, W.W.Y.**, see Yan, X., *JIoT Sept. 15, 2021 14127-14140*
- Ngai, E.C.H.**, see Hu, X., *JIoT Nov. 1, 2021 15649-15651*
- Nguyen, D.C.**, Pathirana, P.N., Ding, M., and Seneviratne, A., BEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain; *JIoT July 15, 2021 11743-11757*
- Nguyen, D.C.**, Ding, M., Pham, Q., Pathirana, P.N., Le, L.B., Seneviratne, A., Li, J., Niyato, D., and Poor, H.V., Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges; *JIoT Aug. 15, 2021 12806-12825*
- Nguyen, H.H.**, see Hanif, M., *JIoT Jan. 1, 2021 211-221*
- Nguyen, H.H.**, see Zhu, B., *JIoT March 15, 2021 4868-4881*
- Nguyen, H.H.**, see Salt, J.E., *JIoT April 1, 2021 5881-5892*
- Nguyen, H.H.**, see Hanif, M., *JIoT Dec. 15, 2021 17611-17621*
- Nguyen, L.D.**, Leyva-Mayorga, I., Lewis, A.N., and Popovski, P., Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks; *JIoT April 15, 2021 6487-6497*
- Nguyen, P.X.**, Tran, D., Onireti, O., Tin, P.T., Nguyen, S.Q., Chatzinotas, S., and Vincent Poor, H., Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks ; *JIoT June 1, 2021 9233-9243*

N

- Na, W.**, see Lee, C., *JIoT May 15, 2021 8291-8303*
- Na, Z.**, see Wang, J., *JIoT Oct. 15, 2021 15096-15106*
- Na, Z.**, Liu, Y., Shi, J., Liu, C., and Gao, Z., UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation; *JIoT Oct. 15, 2021 15041-15048*
- Nabil, M.**, see Ibrahim, M.I., *JIoT Jan. 15, 2021 1243-1258*
- Nadeem, F.**, Shirvanimoghaddam, M., Li, Y., and Vucetic, B., Nonorthogonal HARQ for URLLC: Design and Analysis; *JIoT Dec. 15, 2021 17596-17610*
- Naderi, M.Y.**, see Li, K., *JIoT April 15, 2021 6637-6648*

- Nguyen, S.,** Salcic, Z., Zhang, X., and Bisht, A., A Low-Cost Two-Tier Fog Computing Testbed for Streaming IoT-Based Applications; *JIoT April 15, 2021 6928-6939*
- Nguyen, S.Q.,** see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
- Nguyen, T.,** Le, D., Vo, V., Kim, M., and Choo, H., Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach; *JIoT Jan. 15, 2021 766-777*
- Nguyen, T.,** Tran, T., Shim, K., Huynh-The, T., and An, B., A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks; *JIoT May 1, 2021 7423-7436*
- Nguyen, T.,** see Dang, T., *JIoT Oct. 15, 2021 15468-15485*
- Nguyen, T.,** see Shim, K., *JIoT Dec. 15, 2021 17476-17494*
- Nguyen, T.A.,** Min, D., Choi, E., and Lee, J., Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models; *JIoT Nov. 1, 2021 15704-15748*
- Nguyen, T.D.T.,** Nguyen, V., Pham, V., Huynh, L.N.T., Hossain, M.D., and Huh, E., Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications; *JIoT Feb. 1, 2021 1687-1701*
- Nguyen, T.G.,** see Samanta, A., *JIoT Dec. 1, 2021 16963-16971*
- Nguyen, V.,** see Nguyen, T.D.T., *JIoT Feb. 1, 2021 1687-1701*
- Nguyen, V.,** Sharma, S.K., Vu, T.X., Chatzinotas, S., and Ottersten, B., Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks; *JIoT March 1, 2021 3394-3409*
- Nguyena, T.-V.,** see Tuong, V.D., *JIoT Sept. 1, 2021 13196-13208*
- Ni, J.,** see Yu, Q., *JIoT Nov. 15, 2021 16191-16194*
- Ni, L.M.,** see Ding, Y., *JIoT Aug. 15, 2021 12505-12517*
- Ni, M.,** see Dai, C., *JIoT June 15, 2021 9697-9705*
- Ni, Q.,** see Hu, H., *JIoT Jan. 15, 2021 1211-1223*
- Ni, Q.,** see Wang, F., *JIoT April 1, 2021 5321-5331*
- Ni, Q.,** see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Ni, Q.,** see Wu, H., *JIoT Dec. 1, 2021 16972-16983*
- Ni, R.,** see Wu, S., *JIoT June 15, 2021 10085-10102*
- Ni, W.,** see Thomas, D., *JIoT March 1, 2021 3587-3604*
- Ni, W.,** see Li, K., *JIoT June 15, 2021 9787-9799*
- Ni, W.,** see Wang, Z., *JIoT Sept. 15, 2021 14232-14247*
- Nie, J.,** see Li, Z., *JIoT Feb. 15, 2021 2364-2378*
- Nie, J.,** see Liu, R.W., *JIoT April 1, 2021 5374-5385*
- Nie, J.,** see Liu, Y., *JIoT April 15, 2021 6348-6358*
- Nie, J.,** see Liu, Y., *JIoT June 15, 2021 9827-9837*
- Nie, W.,** see Zhou, M., *JIoT Oct. 15, 2021 15117-15125*
- Nie, X.,** see Sun, J., *JIoT June 15, 2021 10034-10046*
- Nie, X.,** and Zhao, F., Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications; *JIoT Oct. 15, 2021 15317-15333*
- Nikbakhthnasrabadi, F.,** see Bhattacharjee, M., *JIoT March 15, 2021 5101-5110*
- Nikbakhthnasrabadi, F.,** see Escobedo, P., *JIoT March 15, 2021 5093-5100*
- Nikouei, S.Y.,** Chen, Y., Aved, A.J., and Blasch, E., I-VISE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries; *JIoT Nov. 1, 2021 16181-16190*
- Ning, H.,** see Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
- Ning, H.,** see Ye, X., *JIoT Feb. 1, 2021 1373-1387*
- Ning, H.,** Shi, F., Cui, S., and Daneshmand, M., From IoT to Future Cyber-Enabled Internet of X and Its Fundamental Issues; *JIoT April 1, 2021 6077-6088*
- Ning, H.,** see Farha, F., *JIoT April 1, 2021 5904-5913*
- Ning, H.,** see Dhelim, S., *JIoT April 15, 2021 7024-7035*
- Ning, H.,** Zhang, Z., and Daneshmand, M., PhiNet of Things: Things Connected by Physical Space From the Natural View; *JIoT June 1, 2021 8680-8692*
- Ning, H.,** see Qiu, M., *JIoT June 15, 2021 9460-9462*
- Ning, H.,** see Naouri, A., *JIoT Aug. 15, 2021 13065-13076*
- Ning, H.,** see Dhelim, S., *JIoT Dec. 15, 2021 17817-17828*
- Ning, W.,** Li, S., Wei, D., Guo, L.Z., and Chen, H., Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things; *JIoT Aug. 15, 2021 12550-12558*
- Niotaki, K.,** see Finnegan, J., *JIoT April 1, 2021 5736-5743*
- Niu, J.X.,** see Veluri, H., *JIoT June 1, 2021 9219-9232*
- Niu, K.,** see Yu, B., *JIoT Sept. 15, 2021 13900-13913*
- Niu, S.,** see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Niu, S.,** see Liu, Y., *JIoT Dec. 1, 2021 17227-17235*
- Niu, W.,** Xiao, J., Zhang, X., Zhang, X., Du, X., Huang, X., and Guizani, M., Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation; *JIoT June 15, 2021 9905-9919*
- Niu, X.,** see Li, Y., *JIoT March 15, 2021 4035-4062*
- Niyato, D.,** see Mollah, M.B., *JIoT Jan. 1, 2021 18-43*
- Niyato, D.,** see Ji, J., *JIoT Feb. 1, 2021 1557-1571*
- Niyato, D.,** see Zhao, Y., *JIoT Feb. 1, 2021 1817-1829*
- Niyato, D.,** see Leung, V.C.M., *JIoT Feb. 15, 2021 2082-2086*
- Niyato, D.,** see Mollah, M.B., *JIoT March 15, 2021 4157-4185*
- Niyato, D.,** see Ji, J., *JIoT May 15, 2021 8570-8584*
- Niyato, D.,** see Kim, N., *JIoT May 15, 2021 8259-8278*
- Niyato, D.,** see Zhao, Y., *JIoT June 1, 2021 8865-8882*
- Niyato, D.,** see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Niyato, D.,** see Jia, Z., *JIoT June 15, 2021 9814-9826*
- Niyato, D.,** see Li, J., *JIoT June 15, 2021 10052-10070*
- Niyato, D.,** see Zhu, K., *JIoT Aug. 1, 2021 12064-12078*
- Niyato, D.,** see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Niyato, D.,** see Asheralieva, A., *JIoT Oct. 1, 2021 14874-14895*
- Niyato, D.,** see Lim, W.Y.B., *JIoT Dec. 1, 2021 16853-16862*
- Njilla, L.,** see Tian, Y., *JIoT March 1, 2021 3300-3309*
- Nkenyereye, L.,** Hwang, J., Pham, Q., and Song, J., Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform; *JIoT July 15, 2021 11233-11248*
- Nkenyereye, L.,** see Hwang, J., *JIoT July 15, 2021 11526-11547*
- Nocera, A.,** see Diamantini, C., *JIoT April 1, 2021 6127-6139*
- Noh, W.,** see Tuong, V.D., *JIoT Sept. 1, 2021 13196-13208*
- Noor, R.M.,** see Iqbal, S., *JIoT Oct. 1, 2021 14746-14755*
- Nour, B.,** see Serhane, O., *JIoT March 15, 2021 4081-4104*
- Nour, B.,** see Rehman, M.A.U., *JIoT May 1, 2021 7661-7675*
- Nour, C.A.,** see Kilzi, A., *JIoT Dec. 15, 2021 17705-17723*
- Nouri, N.A.,** see Naouri, A., *JIoT Aug. 15, 2021 13065-13076*
- Nugent, C.,** see Farha, F., *JIoT April 1, 2021 5904-5913*
- Nyang, D.,** see Abuhamad, M., *JIoT Jan. 1, 2021 65-84*
- Nyka, K.,** see Ademaj, F., *JIoT Nov. 15, 2021 16653-16665*

O

- O'Connor, M.D.,** see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- O'Shea, D.,** see Katona, R., *JIoT Jan. 15, 2021 916-926*
- Obaidat, M.S.,** see Chhikara, P., *JIoT Aug. 15, 2021 12597-12609*
- Obaidat, M.S.,** see Castiglione, A., *JIoT Nov. 1, 2021 16072-16082*
- Obaidat, M.S.,** see Wang, P., *JIoT Nov. 1, 2021 15863-15874*
- Ochieng, W.Y.,** see Sun, R., *JIoT April 15, 2021 7065-7078*
- Ogata, T.,** see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
- Oguntala, G.A.,** Hu, Y.F., Alabdullah, A.A.S., Abd-Alhameed, R.A., Ali, M., and Luong, D.K., Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living; *JIoT July 1, 2021 10953-10962*
- Oh, H.S.,** see Jeon, W.S., *JIoT Oct. 15, 2021 15628-15638*
- Oh, H.S.,** Seo, S.B., Lee, G.T., Jeon, W.S., and Lee, M.G., OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation; *JIoT Nov. 15, 2021 16418-16426*
- Oh, K.,** see Han, K., *JIoT March 15, 2021 4642-4656*
- Ohsuga, A.,** see Sei, Y., *JIoT April 15, 2021 7079-7088*
- Ohtsuki, T.,** see Fang, D., *JIoT May 15, 2021 8557-8569*
- Ojha, T.,** Misra, S., and Raghuvanshi, N.S., Internet of Things for Agricultural Applications: The State of the Art; *JIoT July 15, 2021 10973-10997*
- Okada, M.,** see Chen, N., *JIoT June 1, 2021 8719-8733*
- Olivares, T.,** see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
- Omwenga, M.M.,** Wu, D., Liang, Y., Yang, L., Huston, D., and Xia, T., Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning; *JIoT July 15, 2021 11594-11606*
- Onireti, O.,** see Xu, H., *JIoT March 1, 2021 3915-3929*

Onireti, O., see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
Ono, S., see Evans, J.W., *JIoT June 15, 2021 10047-10051*
Onur, E., see Yildiz, H., *JIoT April 1, 2021 5682-5696*
Ooi, K., see Tan, E., *JIoT Sept. 15, 2021 14308-14321*
Orgun, M., see Thomas, D., *JIoT March 1, 2021 3587-3604*
Oroza, C.A., Giraldo, J.A., Parvania, M., and Watteyne, T., Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach; *JIoT Dec. 15, 2021 17429-17435*
Osher, S., see Kang, Y., *JIoT May 15, 2021 8488-8503*
Osterberg, P., see Farag, H., *JIoT Feb. 1, 2021 1871-1882*
Osterberg, P., see Beltramelli, L., *JIoT May 15, 2021 7912-7924*
Ota, J., see Zhong, Z., *JIoT Dec. 1, 2021 17000-17013*
Ota, K., see Li, C., *JIoT May 1, 2021 7192-7202*
Otero, A., see Marino, R., *JIoT March 15, 2021 4339-4352*
Otrok, H., see Mourad, A., *JIoT Jan. 15, 2021 829-843*
Ottersten, B., see Nguyen, V., *JIoT March 1, 2021 3394-3409*
Ou, C., see Wang, Q., *JIoT Feb. 1, 2021 2011-2026*
Ou, R., see Chen, Y., *JIoT April 1, 2021 6089-6100*
Ou, Z., Hu, Y., Song, M., Yan, Z., and Hui, P., Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition; *JIoT May 1, 2021 7279-7287*
Ouedraogo, C.A., Medjiah, S., Chassot, C., Drira, K., and Aguilar, J., A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms; *JIoT March 1, 2021 3885-3903*
Ould-Slimane, H., see Abdulrahman, S., *JIoT April 1, 2021 5476-5497*
Ouyang, B., Wills, P.S., Tang, Y., Hallstrom, J.O., Su, T., Namuduri, K., Mukherjee, S., Rodriguez-Labra, J.I., Li, Y., and Den Ouden, C.J., Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms; *JIoT Sept. 15, 2021 14013-14027*
Ozcelebi, T., see Saeed, A., *JIoT Jan. 15, 2021 1030-1040*
Ozdemir, E., see Aydin, Y., *JIoT Sept. 15, 2021 13876-13887*
Ozdemir, S., see Kok, I., *JIoT Jan. 1, 2021 232-243*
Ozger, M., see Tavana, M., *JIoT Aug. 1, 2021 11834-11846*

P

Pack, S., see Leung, V.C.M., *JIoT Feb. 15, 2021 2082-2086*
Padmavathamma, M., see Thumbur, G., *JIoT Feb. 1, 2021 1908-1920*
Paek, J., see Kim, S., *JIoT May 15, 2021 8504-8513*
Pal, R., Huang, Z., Yin, X., Lototsky, S., De, S., Tarkoma, S., Liu, M., Crowcroft, J., and Sastry, N., Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes; *JIoT May 1, 2021 7360-7371*
Pal, R., Huang, Z., Yin, X., Lototsky, S., De, S., Tarkoma, S., Liu, M., Crowcroft, J., and Sastry, N., Corrections to Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes; *JIoT July 15, 2021 11773-11775*
Palacharla, P., see Guo, J., *JIoT July 15, 2021 11078-11087*
Palaniswami, M., see Gonzalez-Vidal, A., *JIoT Nov. 1, 2021 16108-16120*
Palma, D., see Braten, A.E., *JIoT March 15, 2021 4275-4290*
Palmieri, F., see D'Angelo, G., *JIoT Aug. 15, 2021 12518-12527*
Pan, C., see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
Pan, C., see Wang, T., *JIoT June 1, 2021 9014-9029*
Pan, G., see Xu, P., *JIoT May 15, 2021 8145-8158*
Pan, H., see Liao, Z., *JIoT June 15, 2021 9730-9739*
Pan, J., see Guo, L., *JIoT March 1, 2021 3851-3863*
Pan, J., see Liu, Y., *JIoT Aug. 1, 2021 12231-12241*
Pan, L., see Pokhrel, S.R., *JIoT July 1, 2021 10299-10307*
Pan, M., see Zhang, J., *JIoT Jan. 1, 2021 244-261*
Pan, M., see Li, L., *JIoT March 15, 2021 4317-4328*
Pan, M., see Wu, M., *JIoT July 1, 2021 10639-10651*
Pan, W., see Wu, C., *JIoT June 1, 2021 9151-9163*
Pan, Y., see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
Pan, Z., see Qi, Y., *JIoT Dec. 15, 2021 17762-17777*
Panaousis, E., see Xu, G., *JIoT June 15, 2021 9559-9567*
Panayiotou, C.G., see Milis, G.M., *JIoT Feb. 15, 2021 2615-2626*

Panda, S.S., Jena, D., Mohanta, B.K., Ramasubbareddy, S., Daneshmand, M., and Gandomi, A.H., Authentication and Key Management in Distributed IoT Using Blockchain Technology; *JIoT Aug. 15, 2021 12947-12954*
Pandey, A., Tiwary, P., Kumar, S., and Das, S.K., Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions; *JIoT July 1, 2021 10665-10677*
Pandharipande, A., see Peng, H., *JIoT Dec. 15, 2021 17356-17371*
Pandbianco, J.E., see Divan, M.J., *JIoT Aug. 1, 2021 11983-12003*
Pang, F., see Song, Y., *JIoT June 15, 2021 9594-9602*
Pang, J., Huang, Y., Xie, Z., Han, Q., and Cai, Z., Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT; *JIoT March 1, 2021 3088-3098*
Pang, X., see Zhang, P., *JIoT Feb. 15, 2021 2459-2467*
Pang, Z., see Liu, J., *JIoT Nov. 1, 2021 15807-15817*
Papadaskalopoulos, D., see Li, J., *JIoT Jan. 15, 2021 734-749*
Papadias, C.B., see Lopez, O.L.A., *JIoT Jan. 1, 2021 278-296*
Papadimitratos, P., see Khodaei, M., *JIoT May 15, 2021 7985-8004*
Papadopoulos, G.Z., see Navas, R.E., *JIoT May 15, 2021 7818-7832*
Papaioannou, S., see Moon, J., *JIoT Oct. 15, 2021 15441-15455*
Pappas, N., see Zhou, S., *JIoT Oct. 1, 2021 14431-14434*
Papuzzo, G., see Forestiero, A., *JIoT Nov. 15, 2021 16548-16558*
Parah, S.A., Kaw, J.A., Bellavista, P., Loan, N.A., Bhat, G.M., Muhammad, K., and de Albuquerque, V.H.C., Efficient Security and Authentication for Edge-Based Internet of Medical Things; *JIoT Nov. 1, 2021 15652-15662*
Parand, S., see Khan, S.M.Z., *JIoT Oct. 1, 2021 14756-14772*
Parizi, R.M., see Yazdinejad, A., *JIoT April 15, 2021 6406-6415*
Park, C., see Park, W., *JIoT Sept. 1, 2021 13677-13689*
Park, H., see Shim, Y., *JIoT Feb. 15, 2021 2792-2801*
Park, H., see Lee, S., *JIoT April 1, 2021 5985-6001*
Park, H., see Ahmadian, A., *JIoT April 1, 2021 5866-5880*
Park, J., see Seo, H., *JIoT Jan. 1, 2021 129-143*
Park, J., see Li, H., *JIoT Aug. 1, 2021 11847-11859*
Park, J., see Choi, J., *JIoT Oct. 15, 2021 15512-15521*
Park, J.J., see Moon, J.H., *JIoT Feb. 1, 2021 1437-1452*
Park, P., Di Marco, P., Nah, J., and Fischione, C., Wireless Avionics Intra-communications: A Survey of Benefits, Challenges, and Solutions; *JIoT May 15, 2021 7745-7767*
Park, T., Saad, W., and Zhou, B., Centralized and Distributed Age of Information Minimization With Nonlinear Aging Functions in the Internet of Things; *JIoT May 15, 2021 8437-8455*
Park, T., Lee, G., Saad, W., and Bennis, M., Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA); *JIoT June 15, 2021 10160-10169*
Park, W., and Park, C., Securing 6LoWPAN Neighbor Discovery; *JIoT Sept. 1, 2021 13677-13689*
Parr, B., see Alam, F., *JIoT March 15, 2021 4228-4249*
Parvania, M., see Oroza, C.A., *JIoT Dec. 15, 2021 17429-17435*
Pascual-Leone, A., see Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
Pasquale, D., see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
Pastor-Aparicio, A., see Segura-Garcia, J., *JIoT Aug. 1, 2021 12467-12475*
Patan, R., see Nagasubramanian, G., *JIoT Aug. 15, 2021 12847-12854*
Patel, N.S., Bhattacharya, P., Patel, S.B., Tanwar, S., Kumar, N., and Song, H., Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts; *JIoT Oct. 1, 2021 14797-14809*
Patel, R., see Thakker, U., *JIoT June 1, 2021 8747-8773*
Patel, S.B., see Patel, N.S., *JIoT Oct. 1, 2021 14797-14809*
Pathak, N., Deb, P.K., Mukherjee, A., and Misra, S., IoT-to-the-Rescue: A Survey of IoT Solutions for COVID-19-Like Pandemics; *JIoT Sept. 1, 2021 13145-13164*
Pathak, N., Misra, S., Mukherjee, A., and Kumar, N., HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms; *JIoT Dec. 1, 2021 16845-16852*
Pathirana, P.N., see Nguyen, D.C., *JIoT July 15, 2021 11743-11757*
Pathirana, P.N., see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
Pattanaik, K.K., see Jain, S., *JIoT March 15, 2021 4882-4892*
Payton, J., see Kayas, G., *JIoT July 15, 2021 11561-11580*
Pearson, S., see Yang, F., *JIoT Aug. 15, 2021 13095-13114*

- Pedram, M.**, see Han, K., *JIoT March 15, 2021 4642-4656*
- Pedrycz, W.**, see Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Pei, L.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Pei, L.**, Xia, S., Chu, L., Xiao, F., Wu, Q., Yu, W., and Qiu, R., MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model; *JIoT June 1, 2021 9383-9396*
- Pei, L.**, see Chu, L., *JIoT Dec. 1, 2021 16787-16800*
- Pei, Q.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Pei, Q.**, see Ma, L., *JIoT April 15, 2021 6757-6770*
- Pei, Q.**, see Feng, J., *JIoT June 1, 2021 9407-9421*
- Pei, X.**, Duan, W., Wen, M., Wu, Y., Yu, H., and Monteiro, V., Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT; *JIoT April 1, 2021 5240-5249*
- Pei, Y.**, see Xiang, Z., *JIoT April 1, 2021 5697-5709*
- Peiravi, A.**, see Kouroshnezhad, S., *JIoT April 1, 2021 5202-5210*
- Pelle, I.**, Czentye, J., Doka, J., Kern, A., Gero, B.P., and Sonkoly, B., Operating Latency Sensitive Applications on Public Serverless Edge Cloud Platforms; *JIoT May 15, 2021 7954-7972*
- Peng, C.**, see Zheng, D., *JIoT May 1, 2021 7140-7151*
- Peng, C.**, Luo, M., Li, L., Choo, K.R., and He, D., Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks; *JIoT Sept. 15, 2021 14287-14298*
- Peng, D.**, see Zhang, W., *JIoT Feb. 1, 2021 2000-2010*
- Peng, G.**, see Luo, Y., *JIoT Feb. 15, 2021 2736-2750*
- Peng, G.**, Wu, H., Wu, H., and Wolter, K., Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing; *JIoT Sept. 1, 2021 13723-13736*
- Peng, H.**, see Zuo, X., *JIoT March 15, 2021 4590-4603*
- Peng, H.**, see Li, X., *JIoT April 1, 2021 5453-5467*
- Peng, H.**, see Xiang, Z., *JIoT April 1, 2021 5697-5709*
- Peng, H.**, see Li, L., *JIoT May 15, 2021 8078-8096*
- Peng, H.**, see Xu, S., *JIoT Nov. 1, 2021 15990-16001*
- Peng, H.**, Li, Q., Pandharipande, A., Ge, X., and Zhang, J., End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT; *JIoT Dec. 15, 2021 17356-17371*
- Peng, J.**, see Guo, Z., *JIoT Jan. 1, 2021 512-527*
- Peng, J.**, see Liao, Z., *JIoT April 1, 2021 5298-5308*
- Peng, J.**, see Liu, L., *JIoT Oct. 15, 2021 15249-15258*
- Peng, K.**, Li, M., Huang, H., Wang, C., Wan, S., and Choo, K.R., Security Challenges and Opportunities for Smart Contracts in Internet of Things: A Survey; *JIoT Aug. 1, 2021 12004-12020*
- Peng, L.**, see Huang, Z., *JIoT April 15, 2021 6385-6392*
- Peng, L.**, see Zhou, X., *JIoT July 15, 2021 11276-11289*
- Peng, M.**, see Zhang, K., *JIoT Feb. 1, 2021 1347-1357*
- Peng, M.**, see Liu, Y., *JIoT May 15, 2021 8616-8631*
- Peng, P.**, see Luo, W., *JIoT Aug. 15, 2021 12650-12657*
- Peng, S.**, Zhao, L., Al-Dubai, A.Y., Zomaya, A.Y., Hu, J., Min, G., and Wang, Q., Secure Lightweight Stream Data Outsourcing for Internet of Things ; *JIoT July 1, 2021 10815-10829*
- Peng, S.**, see Yang, Y., *JIoT Aug. 15, 2021 12490-12504*
- Peng, Y.**, see Han, G., *JIoT April 1, 2021 5219-5229*
- Peng, Y.**, see Huang, Z., *JIoT April 15, 2021 6385-6392*
- Peng, Y.**, see Fang, D., *JIoT May 15, 2021 8557-8569*
- Peng, Y.**, see Fang, D., *JIoT June 15, 2021 9654-9663*
- Peng, Y.**, see Zhang, K., *JIoT Aug. 1, 2021 11935-11959*
- Peng, Y.**, see Zhang, F., *JIoT Sept. 15, 2021 14156-14170*
- Peng, Y.**, see Han, G., *JIoT Dec. 15, 2021 17747-17761*
- Perez-Diaz-de-Cerio, D.**, Valenzuela, J.L., Garcia-Lozano, M., Hernandez-Solana, A., and Valdovinos, A., BMADS: BLE Mesh Asynchronous Dynamic Scanning; *JIoT Feb. 15, 2021 2558-2573*
- Perkovic, T.**, see Solic, P., *JIoT March 15, 2021 4830-4840*
- Perkusich, A.**, see Valadares, D.C.G., *JIoT Dec. 1, 2021 17199-17210*
- Peroulis, D.**, see Jiang, X., *JIoT Jan. 15, 2021 901-915*
- Peroulis, D.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Pesch, D.**, see Katona, R., *JIoT Jan. 15, 2021 916-926*
- Peters, G.W.**, see Chakraborty, B., *JIoT July 15, 2021 11052-11064*
- Petillot, Y.R.**, see Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Petrariu, A.I.**, Lavric, A., Coca, E., and Popa, V., Hybrid Power Management System for LoRa Communication Using Renewable Energy; *JIoT May 15, 2021 8423-8436*
- Pham, N.H.**, see Salt, J.E., *JIoT April 1, 2021 5881-5892*
- Pham, Q.**, see Nkenyereye, L., *JIoT July 15, 2021 11233-11248*
- Pham, Q.**, see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Pham, V.**, see Nguyen, T.D.T., *JIoT Feb. 1, 2021 1687-1701*
- Phan, L.**, Kim, T., and Kim, T., Robust Neighbor-Aware Time Synchronization Protocol for Wireless Sensor Network in Dynamic and Hostile Environments; *JIoT Feb. 1, 2021 1934-1945*
- Phan, L.**, and Kim, T., Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks; *JIoT May 1, 2021 7485-7496*
- Picano, B.**, see Fantacci, R., *JIoT Dec. 1, 2021 17090-17099*
- Piccialli, F.**, see Ahmed, I., *JIoT July 1, 2021 10318-10326*
- Pietro, R.D.**, see Sciancalepore, S., *JIoT March 15, 2021 5075-5092*
- Pillai, P.**, see Mukherjee, A., *JIoT April 1, 2021 5194-5201*
- Pinheiro, A.J.**, Freitas de Araujo-Filho, P., de M. Bezerra, J., and Campelo, D.R., Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance; *JIoT March 1, 2021 3930-3938*
- Pinrod, V.**, Gupta, S.K., Nadig, S., Ruyack, A., Davaji, B., and Lal, A., Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification; *JIoT March 15, 2021 5009-5022*
- Piran, M.J.**, see Letafati, M., *JIoT March 15, 2021 4373-4388*
- Piran, M.J.**, see Li, X., *JIoT April 1, 2021 5453-5467*
- Piran, M.J.**, see Wozniak, M., *JIoT April 1, 2021 5442-5452*
- Pirayesh, H.**, Kheirkhah Sangdeh, P., and Zeng, H., Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network; *JIoT March 15, 2021 4957-4968*
- Pirayesh, H.**, see Sangdeh, P.K., *JIoT Sept. 1, 2021 13516-13527*
- Pirbhulal, S.**, see Sodhro, A.H., *JIoT April 1, 2021 5141-5148*
- Pirbhulal, S.**, see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
- Pisa, S.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Pister, K.S.J.**, see Chang, T., *JIoT Feb. 1, 2021 1846-1858*
- Pokhrel, S.R.**, Pan, L., Kumar, N., Doss, R., and Vu, H.L., Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT; *JIoT July 1, 2021 10299-10307*
- Polycarpou, M.M.**, see Milis, G.M., *JIoT Feb. 15, 2021 2615-2626*
- Poolad, P.**, see Lazarescu, M.T., *JIoT March 1, 2021 3939-3954*
- Poor, H.V.**, see Liu, W., *JIoT Jan. 15, 2021 723-733*
- Poor, H.V.**, see Xiao, Y., *JIoT March 15, 2021 4560-4568*
- Poor, H.V.**, see Chen, H., *JIoT April 1, 2021 5360-5373*
- Poor, H.V.**, see Tariq, M., *JIoT April 1, 2021 5468-5475*
- Poor, H.V.**, see Kang, Y., *JIoT May 15, 2021 8488-8503*
- Poor, H.V.**, see Song, D., *JIoT July 1, 2021 10543-10556*
- Poor, H.V.**, see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Poor, H.V.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Poor, H.V.**, see Ma, C., *JIoT Dec. 15, 2021 17308-17319*
- Pop, P.**, see Zhao, L., *JIoT April 1, 2021 5574-5584*
- Popa, V.**, see Petrariu, A.I., *JIoT May 15, 2021 8423-8436*
- Popoola, S.I.**, see Jogunola, O., *JIoT March 15, 2021 4211-4227*
- Popoola, S.I.**, Adebisi, B., Hammoudeh, M., Gui, G., and Gacanin, H., Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks; *JIoT March 15, 2021 4944-4956*
- Popovski, P.**, see Nguyen, L.D., *JIoT April 15, 2021 6487-6497*
- Portilla, J.**, see Marino, R., *JIoT March 15, 2021 4339-4352*
- Portmann, M.**, see Sandhu, M.M., *JIoT Sept. 15, 2021 13825-13848*
- Pota, H.R.**, see Tran, N.N., *JIoT June 1, 2021 9422-9435*
- Potena, D.**, see Diamantini, C., *JIoT April 1, 2021 6127-6139*
- Prabakaran, B.S.**, Akhtar, A., Rehman, S., Hasan, O., and Shafique, M., Bio-NetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables; *JIoT Sept. 1, 2021 13251-13265*
- Pradhan, A.K.**, see Egala, B.S., *JIoT July 15, 2021 11717-11731*
- Prajapat, R.**, Yadav, R.N., and Misra, R., Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things; *JIoT Sept. 1, 2021 13593-13607*

- Prakriya, S.**, see Bapatla, D., *JIoT March 15, 2021 5045-5061*
- Prasad, G.**, see Rajendran, V., *JIoT Nov. 15, 2021 16637-16652*
- Prerna, D.**, Tekchandani, R., Kumar, N., and Tanwar, S., An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment; *JIoT March 15, 2021 4816-4829*
- Priakanth, P.**, see Gopikrishnan, S., *JIoT July 15, 2021 11345-11356*
- Psannis, K.E.**, see Stergiou, C.L., *JIoT April 1, 2021 5164-5171*
- Pu, Z.**, Zhu, M., Li, W., Cui, Z., Guo, X., and Wang, Y., Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices; *JIoT Jan. 1, 2021 474-486*

Q

- Qadir, J.**, see Qolomany, B., *JIoT Feb. 15, 2021 2943-2958*
- Qadir, J.**, see Mohammed, I., *JIoT April 1, 2021 5938-5952*
- Qi, G.**, see Yan, J., *JIoT Oct. 1, 2021 14623-14637*
- Qi, H.**, Wang, J., Li, W., Wang, Y., and Qiu, T., A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing; *JIoT Feb. 15, 2021 2124-2134*
- Qi, H.**, Wan, Z., Guan, Z., and Cheng, X., Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles; *JIoT March 15, 2021 4472-4484*
- Qi, H.**, see Zhang, X., *JIoT Oct. 15, 2021 15107-15116*
- Qi, J.**, see Liu, H., *JIoT Dec. 1, 2021 17100-17110*
- Qi, L.**, see Wang, F., *JIoT April 1, 2021 5321-5331*
- Qi, P.**, see Wang, D., *JIoT June 1, 2021 9330-9343*
- Qi, Q.**, see Chen, D., *JIoT Jan. 15, 2021 813-828*
- Qi, Q.**, see Zhuang, Z., *JIoT Feb. 15, 2021 2208-2225*
- Qi, Q.**, see Wang, Q., *JIoT April 15, 2021 6853-6864*
- Qi, S.**, Lu, Y., Wei, W., and Chen, X., Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT; *JIoT Feb. 15, 2021 2886-2899*
- Qi, Y.**, see Cai, Z., *JIoT Jan. 1, 2021 418-427*
- Qi, Y.**, Zhou, Y., Liu, Y., Liu, L., and Pan, Z., Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing; *JIoT Dec. 15, 2021 17762-17777*
- Qian, B.**, see Xu, Y., *JIoT July 15, 2021 11427-11439*
- Qian, H.**, see Yang, M., *JIoT Feb. 1, 2021 1572-1584*
- Qian, H.**, see Yang, M., *JIoT Sept. 1, 2021 13690-13702*
- Qian, K.**, Koike, T., Yoshiuchi, K., Schuller, B.W., and Yamamoto, Y., Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study; *JIoT May 15, 2021 8343-8355*
- Qian, K.**, Schmitt, M., Zheng, H., Koike, T., Han, J., Liu, J., Ji, W., Duan, J., Song, M., Yang, Z., Ren, Z., Liu, S., Zhang, Z., Yamamoto, Y., and Schuller, B.W., Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19; *JIoT Nov. 1, 2021 16035-16046*
- Qian, L.**, see Yang, B., *JIoT June 15, 2021 9878-9893*
- Qian, L.**, see Lu, W., *JIoT Oct. 15, 2021 15070-15080*
- Qian, L.P.**, Wu, Y., Xu, X., Ji, B., Shi, Z., and Jia, W., Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain; *JIoT Feb. 15, 2021 2150-2162*
- Qian, S.**, see Wang, Z., *JIoT April 15, 2021 6733-6745*
- Qian, Y.**, see Zhang, P., *JIoT Feb. 15, 2021 2459-2467*
- Qian, Y.**, see Zhang, J., *JIoT March 15, 2021 4403-4416*
- Qian, Y.**, Su, H., Han, G., Zhang, J., and Liu, J., Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks; *JIoT May 1, 2021 7676-7690*
- Qian, Y.**, see Jiang, Y., *JIoT July 15, 2021 11163-11176*
- Qiao, L.**, see Lv, Z., *JIoT June 15, 2021 9531-9538*
- Qiao, M.**, see Zhao, Y., *JIoT Dec. 1, 2021 16933-16945*
- Qiao, S.**, see Chen, B., *JIoT July 1, 2021 10248-10263*
- Qiao, W.**, see Li, Z., *JIoT Aug. 1, 2021 12289-12310*
- Qiao, W.**, see Liu, Y., *JIoT Dec. 1, 2021 17071-17089*
- Qiao, X.**, see Huang, Y., *JIoT May 1, 2021 7288-7302*
- Qin, M.**, Cheng, N., Jing, Z., Yang, T., Xu, W., Yang, Q., and Rao, R.R., Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks; *JIoT Feb. 1, 2021 1896-1907*
- Qin, S.**, see Yu, L., *JIoT Aug. 1, 2021 12046-12063*
- Qin, X.**, Xia, Y., Li, H., Feng, Z., and Zhang, P., Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks; *JIoT Oct. 1, 2021 14501-14513*
- Qin, X.**, see Liu, L., *JIoT Dec. 1, 2021 17057-17070*
- Qin, X.**, see Sun, M., *JIoT Dec. 15, 2021 17275-17289*
- Qin, Y.**, see Zhong, X., *JIoT May 15, 2021 8191-8209*
- Qin, Z.**, see Ding, Y., *JIoT Feb. 1, 2021 1504-1518*
- Qin, Z.**, see Xiao, C., *JIoT April 1, 2021 5669-5681*
- Qin, Z.**, see Liang, J., *JIoT Aug. 15, 2021 12528-12539*
- Qin, Z.**, see Liang, J., *JIoT Dec. 1, 2021 17029-17042*
- Qin, Z.**, Wang, H., Wei, Z., Qu, Y., Xiong, F., Dai, H., and Wu, T., Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities; *JIoT Dec. 15, 2021 17290-17307*
- Qiu, B.**, see Jiang, P., *JIoT March 15, 2021 5031-5044*
- Qiu, C.**, see He, Y., *JIoT Feb. 15, 2021 2226-2237*
- Qiu, C.**, see Wu, F., *JIoT June 15, 2021 9970-9980*
- Qiu, C.**, Wang, X., Yao, H., Du, J., Yu, F.R., and Guo, S., Networking Integrated Cloud-Edge-End in IIoT: A Blockchain-Assisted Collective Q-Learning Approach; *JIoT Aug. 15, 2021 12694-12704*
- Qiu, C.**, see Wang, C., *JIoT Dec. 1, 2021 16911-16920*
- Qiu, G.**, Guo, D., Shen, Y., Tang, G., and Chen, S., Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation; *JIoT Nov. 1, 2021 16165-16180*
- Qiu, H.**, Zheng, Q., Zhang, T., Qiu, M., Memmi, G., and Lu, J., Toward Secure and Efficient Deep Learning Inference in Dependable IIoT Systems; *JIoT March 1, 2021 3180-3188*
- Qiu, H.**, Dong, T., Zhang, T., Lu, J., Memmi, G., and Qiu, M., Adversarial Attacks Against Network Intrusion Detection in IIoT Systems; *JIoT July 1, 2021 10327-10335*
- Qiu, M.**, see Qiu, H., *JIoT March 1, 2021 3180-3188*
- Qiu, M.**, see Jiang, H., *JIoT April 15, 2021 6167-6177*
- Qiu, M.**, Thuraisingham, B., Daneshmand, M., Ning, H., and Barnaghi, P., Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IIoT; *JIoT June 15, 2021 9460-9462*
- Qiu, M.**, see Qiu, H., *JIoT July 1, 2021 10327-10335*
- Qiu, M.**, see Chen, L., *JIoT Aug. 15, 2021 12610-12622*
- Qiu, R.**, see Pei, L., *JIoT June 1, 2021 9383-9396*
- Qiu, R.**, see Chu, L., *JIoT Dec. 1, 2021 16787-16800*
- Qiu, T.**, see Khelloufi, A., *JIoT Feb. 1, 2021 1859-1870*
- Qiu, T.**, see Bi, X., *JIoT Feb. 1, 2021 1282-1293*
- Qiu, T.**, see Qi, H., *JIoT Feb. 15, 2021 2124-2134*
- Qiu, T.**, Zhang, S., Si, W., Cao, Q., and Atiquzzaman, M., A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things; *JIoT June 15, 2021 9473-9483*
- Qiu, W.**, see Chen, Y., *JIoT April 1, 2021 6089-6100*
- Qiu, W.**, see Bao, Y., *JIoT June 1, 2021 9189-9205*
- Qiu, Y.**, Zhang, H., and Long, K., Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things; *JIoT Nov. 1, 2021 15875-15883*
- Qiu, Z.**, see Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
- Qolomany, B.**, Mohammed, I., Al-Fuqaha, A., Guizani, M., and Qadir, J., Trust-Based Cloud Machine Learning Model Selection for Industrial IIoT and Smart City Services; *JIoT Feb. 15, 2021 2943-2958*
- Qolomany, B.**, see Mohammed, I., *JIoT April 1, 2021 5938-5952*
- Qu, D.**, see Ding, J., *JIoT Oct. 15, 2021 15361-15371*
- Qu, F.**, see Liu, M., *JIoT June 1, 2021 8990-9004*
- Qu, G.**, see Hu, H., *JIoT Jan. 15, 2021 1211-1223*
- Qu, G.**, see Zhang, J., *JIoT Feb. 15, 2021 2992-2999*
- Qu, W.**, see Bi, X., *JIoT Feb. 1, 2021 1282-1293*
- Qu, Y.**, Du, S., Li, S., Meng, Y., Zhang, L., and Zhu, H., Automatic Permission Optimization Framework for Privacy Enhancement of Mobile Applications; *JIoT May 1, 2021 7394-7406*
- Qu, Y.**, see Xiang, C., *JIoT May 15, 2021 8314-8327*

Qu, Y., see Qin, Z., *JIoT Dec. 15, 2021 17290-17307*
Qu, Z., see Zhou, Q., *JIoT Aug. 1, 2021 11916-11934*
Quan, W., see Liu, G., *JIoT April 15, 2021 6578-6590*
Quan, W., see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
Quek, T.Q.S., see Zhang, Q., *JIoT June 15, 2021 10146-10159*
Quek, T.Q.S., see Jang, H.S., *JIoT July 15, 2021 11640-11654*
Quek, T.Q.S., see Yang, P., *JIoT Sept. 15, 2021 14258-14275*
Quek, T.Q.S., see Liu, H., *JIoT Oct. 1, 2021 14458-14470*
Quek, T.Q.S., see Jang, H.S., *JIoT Oct. 15, 2021 15349-15360*
Quincozes, S.E., see Borgiani, V., *JIoT March 15, 2021 4569-4578*

R

Rabie, K.M., see Makarfi, A.U., *JIoT Jan. 1, 2021 443-457*
Rachuri, S.P., see Misra, S., *JIoT June 15, 2021 10010-10017*
Raghunathan, N., see Jiang, X., *JIoT Jan. 15, 2021 901-915*
Raghunathan, N., see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
Raghuwanshi, N.S., see Roy, S.K., *JIoT March 15, 2021 5023-5030*
Raghuwanshi, N.S., see Ojha, T., *JIoT July 15, 2021 10973-10997*
Rahimi, R., see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
Rahman, A., Hossain, M.S., Alrajeh, N.A., and Alsolami, F., Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices; *JIoT June 15, 2021 9603-9610*
Rahman, A.U., see Iqbal, S., *JIoT Oct. 1, 2021 14746-14755*
Rahman, G.M.E., see Fotovvat, A., *JIoT May 15, 2021 8279-8290*
Rahman, M.A., and Hossain, M.S., An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19; *JIoT Nov. 1, 2021 15847-15854*
Rahman, M.M., see Bhuiyan, M.N., *JIoT July 1, 2021 10474-10498*
Rahman, M.M.U., see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
Rahman, S., see Liu, H., *JIoT Dec. 1, 2021 17100-17110*
Rahulamathavan, Y., Dogan, S., Shi, X., Lu, R., Rajarajan, M., and Kondo, A., Scalar Product Lattice Computation for Efficient Privacy-Preserving Systems; *JIoT Feb. 1, 2021 1417-1427*
Raja, G., see Anbalagan, S., *JIoT Sept. 15, 2021 13950-13957*
Rajarajan, M., see Rahulamathavan, Y., *JIoT Feb. 1, 2021 1417-1427*
Rajasegaran, J., see Yang, Y., *JIoT March 1, 2021 3567-3575*
Rajendran, V., Prasad, G., Lampe, L., and Vos, G., SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands; *JIoT Nov. 15, 2021 16637-16652*
Ramasubbareddy, S., see Mohanta, B.K., *JIoT Jan. 15, 2021 881-888*
Ramasubbareddy, S., see Panda, S.S., *JIoT Aug. 15, 2021 12947-12954*
Ramirez, F.J., see Garrido-Hidalgo, C., *JIoT Aug. 15, 2021 12919-12933*
Rampa, V., see Kianoush, S., *JIoT Jan. 15, 2021 1154-1168*
Ramson, S.R.J., Leon-Salas, W.D., Brecheisen, Z., Foster, E.J., Johnston, C.T., Schulze, D.G., Filley, T., Rahimi, R., Soto, M.J.C.V., Bolivar, J.A.L., and Malaga, M.P., A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System; *JIoT June 1, 2021 9278-9293*
Ramzan, N., see Arnau-Gonzalez, P., *JIoT Aug. 1, 2021 12219-12230*
Ranjha, A., and Kaddoum, G., Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach; *JIoT Feb. 1, 2021 1674-1686*
Ranjha, A., and Kaddoum, G., URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning; *JIoT March 15, 2021 4618-4627*
Rao, A., see Khan, M.N., *JIoT March 15, 2021 4132-4156*
Rao, A.S., see Gonzalez-Vidal, A., *JIoT Nov. 1, 2021 16108-16120*
Rao, G.S., see Thumbur, G., *JIoT Feb. 1, 2021 1908-1920*
Rao, H., see Xu, S., *JIoT Nov. 1, 2021 15990-16001*
Rao, H., see Yang, F., *JIoT Nov. 1, 2021 15892-15905*
Rao, R.R., see Qin, M., *JIoT Feb. 1, 2021 1896-1907*
Rao, W., Chen, S., and Wang, Q., Rateless TLRCM for IoT Uplink Transmission; *JIoT July 1, 2021 10608-10618*
Rao, Y., see Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
Raschkowski, L., see Jiang, T., *JIoT June 1, 2021 8799-8815*
Rashid, I., see Iqbal, W., *JIoT June 15, 2021 9622-9633*
Rashid, N., Dautta, M., Tseng, P., and Al Faruque, M.A., HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition; *JIoT Jan. 15, 2021 860-868*
Rashid, N., see Dautta, M., *JIoT May 1, 2021 7600-7609*
Rastogi, K., Lohani, D., and Acharya, D., Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things ; *JIoT June 1, 2021 9257-9267*
Rathore, P., see Gonzalez-Vidal, A., *JIoT Nov. 1, 2021 16108-16120*
Rauf, B., Abbas, H., Sheri, A.M., Iqbal, W., and Khan, A.W., Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework; *JIoT April 15, 2021 6359-6371*
Rauf, B., see Iqbal, W., *JIoT June 15, 2021 9622-9633*
Raut, P., Singh, K., Li, C., Alouini, M., and Huang, W., Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis; *JIoT Dec. 15, 2021 17655-17668*
Rawal, B.S., see Manogaran, G., *JIoT March 1, 2021 3120-3129*
Rawat, D.B., see Upreti, A., *JIoT June 1, 2021 8693-8706*
Ray, P.P., Chowhan, B., Kumar, N., and Almogren, A., BioTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem; *JIoT July 1, 2021 10857-10872*
Ray, S., see Zhang, S., *JIoT June 1, 2021 9139-9150*
Raza, M., see Kasi, S.K., *JIoT July 1, 2021 10308-10317*
Raza, M., see Awais, M., *JIoT Dec. 1, 2021 16863-16871*
Razian, M., Fathian, M., Wu, H., Akbari, A., and Buyya, R., SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments ; *JIoT March 1, 2021 3665-3677*
Reddy, D.V.R.K., see Thumbur, G., *JIoT Feb. 1, 2021 1908-1920*
Reddy, P.V., see Thumbur, G., *JIoT Feb. 1, 2021 1908-1920*
Redif, S., see Yurtman, A., *JIoT May 15, 2021 8328-8342*
Reed, J.H., see Shi, S., *JIoT April 15, 2021 6498-6518*
Reed, J.H., see Li, C., *JIoT Oct. 1, 2021 14543-14558*
Reed, M., see Hu, J., *JIoT Feb. 15, 2021 2102-2115*
Regani, S.D., Wu, C., Wang, B., Wu, M., and Liu, K.J.R., mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio; *JIoT Sept. 1, 2021 13291-13305*
Regazzoni, C., see Kanapram, D.T., *JIoT March 1, 2021 3224-3241*
Rehman, A.u., see Khan, F., *JIoT Oct. 1, 2021 14835-14844*
Rehman, M.A.U., Ullah, R., Kim, B., Nour, B., and Mastorakis, S., CCIC-WSN: An Architecture for Single-Channel Cluster-Based Information-Centric Wireless Sensor Networks; *JIoT May 1, 2021 7661-7675*
Rehman, M.U., see Zhao, N., *JIoT March 15, 2021 4711-4722*
Rehman, S., see Prabakaran, B.S., *JIoT Sept. 1, 2021 13251-13265*
Reising, D., Cancellieri, J., Loveless, T.D., Kandah, F., and Skjellum, A., Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM; *JIoT May 15, 2021 8356-8371*
Ren, A., see Zhao, N., *JIoT March 15, 2021 4711-4722*
Ren, B., see Gu, S., *JIoT Feb. 15, 2021 2135-2149*
Ren, D., see Zhang, K., *JIoT April 15, 2021 6709-6719*
Ren, F., see Feng, J., *JIoT Feb. 15, 2021 2087-2101*
Ren, J., see Zaghoul, E., *JIoT Nov. 15, 2021 16585-16597*
Ren, J., see Chen, W., *JIoT Nov. 15, 2021 16510-16521*
Ren, L., see Zhang, Q., *JIoT Feb. 1, 2021 1946-1958*
Ren, L., Liu, Y., Wang, X., Lu, J., and Deen, M.J., Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT; *JIoT Aug. 15, 2021 12578-12587*
Ren, P., see Huang, Y., *JIoT May 1, 2021 7288-7302*
Ren, Q., Chen, J., Abbasi, O., Kurt, G.K., Yanikomeroğlu, H., and Yu, F.R., An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme ; *JIoT Feb. 1, 2021 1453-1466*
Ren, S., see Guo, K., *JIoT Aug. 15, 2021 12623-12637*
Ren, W., see Zhang, L., *JIoT Dec. 1, 2021 17120-17130*
Ren, X., Yu, C., Yu, W., Yang, X., Zhao, J., and Yang, S., DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data; *JIoT Feb. 15, 2021 2775-2791*
Ren, X., see Li, G., *JIoT Nov. 15, 2021 16440-16451*
Ren, Y., see Fang, Z., *JIoT Oct. 1, 2021 14559-14571*
Ren, Z., see Qian, K., *JIoT Nov. 1, 2021 16035-16046*

- Rentsch, B.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Reshadi, M.**, see Sadrishojaei, M., *JIoT July 1, 2021 10652-10664*
- Reti, D.**, see Anton, S.D.D., *JIoT Dec. 15, 2021 17525-17540*
- Rezaeibagha, F.**, Mu, Y., Huang, K., and Chen, L., Secure and Efficient Data Aggregation for IoT Monitoring Systems; *JIoT May 15, 2021 8056-8063*
- Rezaeibagha, F.**, Mu, Y., Huang, K., Zhang, L., and Huang, X., Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors; *JIoT Dec. 15, 2021 17669-17677*
- Rhee, J.K.**, see Kim, M., *JIoT Aug. 1, 2021 12375-12383*
- Riaz, F.**, see Azad, M.A., *JIoT Nov. 1, 2021 15796-15806*
- Rivadeneira, A.**, see Moreno-Cruz, F., *JIoT March 1, 2021 3678-3688*
- Rodrigues, J.J.P.C.**, see da Cruz, M.A.A., *JIoT May 15, 2021 7902-7911*
- Rodrigues, J.J.P.C.**, see Kasi, S.K., *JIoT July 1, 2021 10308-10317*
- Rodrigues, J.J.P.C.**, see Swain, C., *JIoT Aug. 15, 2021 12705-12715*
- Rodrigues, J.J.P.C.**, see Hu, X., *JIoT Nov. 1, 2021 15649-15651*
- Rodrigues, J.J.P.C.**, see Saleem, M.A., *JIoT Nov. 15, 2021 16613-16622*
- Rodrigues, J.J.P.C.**, see Awais, M., *JIoT Dec. 1, 2021 16863-16871*
- Rodrigues, T.K.**, Liu, J., and Kato, N., Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks; *JIoT Nov. 15, 2021 16231-16242*
- Rodriguez, D.**, see Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Rodriguez, E.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Rodriguez-Labra, J.L.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Roll, S.C.**, see Aryal, A., *JIoT April 15, 2021 7089-7100*
- Romanowich, P.**, see Chen, Q., *JIoT Sept. 15, 2021 14355-14371*
- Romeo, L.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Rosabal, O.M.**, Lopez, O.L.A., Alves, H., Montejo-Sanchez, S., and Latva-Aho, M., On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer; *JIoT July 1, 2021 10531-10542*
- Rossi, P.S.**, see Ciuonzo, D., *JIoT June 1, 2021 9059-9071*
- Rostami, A.S.**, see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*
- Roussakis, E.**, see Cascales, J.P., *JIoT Dec. 15, 2021 17557-17567*
- Rowe, W.S.T.**, see Homssi, B.A., *JIoT March 15, 2021 4461-4471*
- Roy, K.C.**, see Chen, Q., *JIoT Sept. 15, 2021 14355-14371*
- Roy, S.K.**, Misra, S., Raghuvanshi, N.S., and Das, S.K., AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops; *JIoT March 15, 2021 5023-5030*
- Ruan, J.**, see Han, J., *JIoT June 15, 2021 9683-9696*
- Ruan, L.**, Dias, M.P.I., and Wong, E., Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation; *JIoT Jan. 1, 2021 626-635*
- Ruan, Z.**, see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
- Ruepp, S.**, see MalarSKI, K.M., *JIoT April 15, 2021 6746-6756*
- Ruyack, A.**, see Pinrod, V., *JIoT March 15, 2021 5009-5022*
- Ryan, M.**, see Abdel-Basset, M., *JIoT March 15, 2021 4969-4979*
- Ryan, M.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12422-12435*
- Ryan, M.J.**, see Abdel-Basset, M., *JIoT Aug. 1, 2021 12251-12265*
- Ryu, T.**, see Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Rzymowski, M.**, see Ademaj, F., *JIoT Nov. 15, 2021 16653-16665*
- S**
- S. Al-Rakhami, M.**, see Lu, J., *JIoT Nov. 1, 2021 15839-15846*
- S. Sehdev, P.**, see Verma, S., *JIoT April 1, 2021 5408-5415*
- Sa Silva, J.**, see Armando, N., *JIoT April 15, 2021 6916-6927*
- Saad, W.**, see Ferdowsi, A., *JIoT Feb. 15, 2021 2857-2874*
- Saad, W.**, see Park, T., *JIoT May 15, 2021 8437-8455*
- Saad, W.**, see Park, T., *JIoT June 15, 2021 10160-10169*
- Saad, W.**, see Debbah, M., *JIoT June 15, 2021 9774-9775*
- Saad, W.**, see Ferdowsi, A., *JIoT Nov. 15, 2021 16395-16405*
- Saad, W.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Sabir, E.**, see Abouzaid, L., *JIoT March 1, 2021 3743-3757*
- Sacco, G.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Sadiq, S.**, see Castiglione, A., *JIoT Nov. 1, 2021 16072-16082*
- Sadrishojaei, M.**, Navimipour, N.J., Reshadi, M., and Hosseinzadeh, M., A New Preventive Routing Method Based on Clustering and Location Prediction in the Mobile Internet of Things; *JIoT July 1, 2021 10652-10664*
- Saeed, A.**, Salim, F.D., Ozcelebi, T., and Lukkien, J., Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence; *JIoT Jan. 15, 2021 1030-1040*
- Saeed, N.**, see Khalil, R.A., *JIoT July 15, 2021 11016-11040*
- Saeed-Ur-Rehman**, see Khan, W.Z., *JIoT May 15, 2021 7768-7788*
- Safaei, B.**, Monazzah, A.M.H., and Ejlali, A., ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices; *JIoT Jan. 15, 2021 1169-1182*
- Saha, D.**, see Bhuiyan, M.N., *JIoT July 1, 2021 10474-10498*
- Saha, R.**, Misra, S., and Deb, P.K., FogFL: Fog-Assisted Federated Learning for Resource-Constrained IoT Devices; *JIoT May 15, 2021 8456-8463*
- Saha, S.**, see Bera, B., *JIoT April 1, 2021 5744-5761*
- Sahni, Y.**, Cao, J., Yang, L., and Ji, Y., Multihop Offloading of Multiple DAG Tasks in Collaborative Edge Computing; *JIoT March 15, 2021 4893-4905*
- Sahoo, M.N.**, see Swain, C., *JIoT Aug. 15, 2021 12705-12715*
- Saini, A.**, Zhu, Q., Singh, N., Xiang, Y., Gao, L., and Zhang, Y., A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System; *JIoT April 1, 2021 5914-5925*
- Sajjad, M.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- Sakib, S.**, Tazrin, T., Fouda, M.M., Fadlullah, Z.M., and Nasser, N., An Efficient and Lightweight Predictive Channel Assignment Scheme for Multi-band B5G-Enabled Massive IoT: A Deep Learning Approach; *JIoT April 1, 2021 5285-5297*
- Sakthivel, R.K.**, see Nagasubramanian, G., *JIoT Aug. 15, 2021 12847-12854*
- Salam, E.**, see Nassef, O., *JIoT Feb. 15, 2021 2540-2557*
- Salaun, L.**, see Mishra, S., *JIoT July 15, 2021 11305-11319*
- Salcic, Z.**, see Nguyen, S., *JIoT April 15, 2021 6928-6939*
- Saleem, M.A.**, Ghaffar, Z., Mahmood, K., Das, A.K., Rodrigues, J.J.P.C., and Khan, M.K., Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function; *JIoT Nov. 15, 2021 16613-16622*
- Saleem, U.**, see Chen, Y., *JIoT Jan. 1, 2021 85-111*
- Salehi, M.**, and Bayat-Sarmadi, S., PLCDefender: Improving Remote Attestation Techniques for PLCs Using Physical Model; *JIoT May 1, 2021 7372-7379*
- Salim, A.**, see Abdulkareem, K.H., *JIoT Nov. 1, 2021 15919-15928*
- Salim, F.D.**, see Saeed, A., *JIoT Jan. 15, 2021 1030-1040*
- Salman, T.**, see Ghubaish, A., *JIoT June 1, 2021 8707-8718*
- Salmeron, J.F.**, see Moreno-Cruz, F., *JIoT March 1, 2021 3678-3688*
- Salt, J.E.**, Nguyen, H.H., and Pham, N.H., Probabilistic Source Localization Based on Time-of-Arrival Measurements; *JIoT April 1, 2021 5881-5892*
- Salwala, D.**, see Yadav, P., *JIoT July 1, 2021 10367-10389*
- Samanta, A.**, Esposito, F., and Nguyen, T.G., Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty; *JIoT Dec. 1, 2021 16963-16971*
- Samara, L.**, see Awad Abdellatif, A., *JIoT Nov. 1, 2021 15762-15775*
- Samouylov, K.**, see Yang, M., *JIoT Feb. 1, 2021 1572-1584*
- Samouylov, K.**, see Yang, M., *JIoT Sept. 1, 2021 13690-13702*
- Sanchez-Reynoso, M.L.**, see Divan, M.J., *JIoT Aug. 1, 2021 11983-12003*
- Sandhu, M.M.**, Khalifa, S., Jurdak, R., and Portmann, M., Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis; *JIoT Sept. 15, 2021 13825-13848*
- Sangaiah, A.K.**, Rostami, A.S., Hosseinabadi, A.A.R., Shareh, M.B., Javadpour, A., Bargh, S.H., and Hassan, M.M., Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics; *JIoT June 15, 2021 9753-9762*
- Sangdeh, P.K.**, Pirayesh, H., Yan, Q., and Zeng, H., DM-COM: Combining Device-to-Device and MU-MIMO Communications for Cellular Networks; *JIoT Sept. 1, 2021 13516-13527*
- Sankayya, M.**, see Nagasubramanian, G., *JIoT Aug. 15, 2021 12847-12854*
- Santi, P.**, see Librino, F., *JIoT Sept. 1, 2021 13266-13277*
- Sanz, J.M.**, see Delgado, C., *JIoT Feb. 15, 2021 2694-2711*
- Saracco, R.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Sargento, S.**, see Fernandes, R., *JIoT Sept. 1, 2021 13487-13502*
- Sari, H.**, see Wang, J., *JIoT Feb. 1, 2021 1883-1895*
- Saria Allahham, M.**, Awad Abdellatif, A., Mohamed, A., Erbad, A., Yaacoub, E., and Guizani, M., I-SEE: Intelligent, Secure, and Energy-Efficient Tech-

- niques for Medical Data Transmission Using Deep Reinforcement Learning; *JIoT April 15, 2021 6454-6468*
- Sarma, S.E.**, see Dey, S., *JIoT March 1, 2021 3955-3971*
- Sarrafzadeh, M.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Sasabe, M.**, see Zhang, Y., *JIoT April 15, 2021 6372-6384*
- Sastry, N.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- Sastry, N.**, see Pal, R., *JIoT July 15, 2021 11773-11775*
- Satpathy, A.**, see Swain, C., *JIoT Aug. 15, 2021 12705-12715*
- Savazzi, S.**, see Kianoush, S., *JIoT Jan. 15, 2021 1154-1168*
- Saxena, S.**, see Kumar, A., *JIoT Dec. 15, 2021 17778-17789*
- Scherer, M.**, Magno, M., Erb, J., Mayer, P., Eggimann, M., and Benini, L., TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars; *JIoT July 1, 2021 10336-10346*
- Schleicher, B.**, see Tavana, M., *JIoT Aug. 1, 2021 11834-11846*
- Schmeink, A.**, see Yu, W., *JIoT March 1, 2021 3053-3056*
- Schmeink, A.**, see Wang, J., *JIoT Oct. 15, 2021 15126-15139*
- Schmidt, W.R.**, see Serdah, M., *JIoT April 15, 2021 7036-7045*
- Schmitt, M.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Schneider, D.**, see Anton, S.D.D., *JIoT Dec. 15, 2021 17525-17540*
- Schneider, J.**, see Alwarafy, A., *JIoT March 15, 2021 4004-4022*
- Schotten, H.D.**, see Anton, S.D.D., *JIoT Dec. 15, 2021 17525-17540*
- Schuller, B.W.**, see Qian, K., *JIoT May 15, 2021 8343-8355*
- Schuller, B.W.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Schulze, D.G.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Schupke, D.**, see Tavana, M., *JIoT Aug. 1, 2021 11834-11846*
- Sciancalepore, S.**, and Pietro, R.D., PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks; *JIoT March 15, 2021 5075-5092*
- Scott, E.M.**, see Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Sefati, S.**, and Navimipour, N.J., A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm; *JIoT Oct. 15, 2021 15620-15627*
- Segundo, A.H.F.N.**, see Magaia, N., *JIoT April 15, 2021 6393-6405*
- Segura-Garcia, J.**, Calero, J.M.A., Pastor-Aparicio, A., Marco-Alaez, R., Felici-Castell, S., and Wang, Q., 5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge; *JIoT Aug. 1, 2021 12467-12475*
- Sei, Y.**, and Ohsuga, A., Count Estimation With a Low-Accuracy Machine Learning Model; *JIoT April 15, 2021 7079-7088*
- Seid, A.M.**, Boateng, G.O., Anokye, S., Kwantwi, T., Sun, G., and Liu, G., Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach; *JIoT Aug. 1, 2021 12203-12218*
- Selim, B.**, see Moreira, C.M., *JIoT Sept. 15, 2021 14187-14201*
- Sen, S.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Seneviratne, A.**, see Nguyen, D.C., *JIoT July 15, 2021 11743-11757*
- Seneviratne, A.**, see Nguyen, D.C., *JIoT Aug. 15, 2021 12806-12825*
- Seneviratne, S.**, see Yang, Y., *JIoT March 1, 2021 3567-3575*
- Seneviratne, S.**, see Sooriyaarachchi, J., *JIoT May 15, 2021 8304-8313*
- Seng, J.K.P.**, see Ang, K.L., *JIoT Sept. 1, 2021 13165-13182*
- Senouci, M.R.**, see Djamaa, B., *JIoT July 15, 2021 11400-11414*
- Senouci, S.M.**, see Merad-Boudia, O.R., *JIoT April 15, 2021 6143-6153*
- Sentieys, O.**, see Mo, L., *JIoT May 15, 2021 8246-8258*
- Seo, D.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Seo, H.**, Park, J., Bennis, M., and Choi, W., Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems; *JIoT Jan. 1, 2021 129-143*
- Seo, J.**, Jung, B.C., and Jin, H., Modeling and Online Adaptation of ALOHA for Low-Power Wide-Area Networks (LPWANs); *JIoT Oct. 15, 2021 15608-15619*
- Seo, S.B.**, see Oh, H.S., *JIoT Nov. 15, 2021 16418-16426*
- Sequeira, L.**, see Nassef, O., *JIoT Feb. 15, 2021 2540-2557*
- Ser, J.D.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- Serdah, M.**, Bailey, C., Schmidt, W.R., Bansal, R., and Dardona, S., Fully Passive-Printed Wireless Wear Sensor; *JIoT April 15, 2021 7036-7045*
- Serhane, O.**, Yahyaoui, K., Nour, B., and Mounghla, H., A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks; *JIoT March 15, 2021 4081-4104*
- Seshadri, S.S.**, Rodriguez, D., Subedi, M., Choo, K.R., Ahmed, S., Chen, Q., and Lee, J., IoT-Cop: A Blockchain-Based Monitoring Framework for Detection and Isolation of Malicious Devices in Internet-of-Things Systems; *JIoT March 1, 2021 3346-3359*
- Sezgin, A.**, see Tewes, S., *JIoT June 1, 2021 9099-9108*
- Sha, C.**, Song, D., and Malekian, R., A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks; *JIoT Feb. 15, 2021 2649-2669*
- Sha, J.**, see Zhang, J., *JIoT March 15, 2021 4403-4416*
- Shafiq, M.**, Tian, Z., Bashir, A.K., Du, X., and Guizani, M., CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques; *JIoT March 1, 2021 3242-3254*
- Shafique, M.**, see Prabakaran, B.S., *JIoT Sept. 1, 2021 13251-13265*
- Shah, A.A.**, Bhatti, N.A., Dev, K., and Chowdhry, B.S., MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track; *JIoT June 1, 2021 9397-9406*
- Shah, H.A.**, and Zhao, L., Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things; *JIoT March 1, 2021 3410-3421*
- Shah, N.**, see Ibrar, M., *JIoT March 1, 2021 3130-3142*
- Shah, S.T.**, see Mughal, D.M., *JIoT Sept. 1, 2021 13414-13424*
- Shah, S.W.**, see Zhang, J., *JIoT March 15, 2021 4628-4641*
- Shakhov, V.**, and Koo, I., Analysis of a Network Stability-Aware Clustering Protocol for Cognitive Radio Sensor Networks; *JIoT Aug. 1, 2021 12476-12477*
- Shakil Sejan, M.A.**, and Chung, W., Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC; *JIoT May 1, 2021 7214-7228*
- Shakoor, S.**, Kaleem, Z., Do, D., Dobre, O.A., and Jamalipour, A., Joint Optimization of UAV 3-D Placement and Path-Loss Factor for Energy-Efficient Maximal Coverage; *JIoT June 15, 2021 9776-9786*
- Shakouri, A.**, see Jiang, X., *JIoT Jan. 15, 2021 901-915*
- Shakouri, A.**, see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
- Shamma, J.S.**, see Hammouti, H.E., *JIoT Sept. 15, 2021 14066-14079*
- Shang, B.**, see Liu, L., *JIoT Feb. 15, 2021 2342-2353*
- Shang, F.**, see Tian, J., *JIoT Jan. 15, 2021 1001-1015*
- Shang, J.**, Xu, W., Zhang, Z., Fan, Y., and Lin, J., Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes; *JIoT Nov. 15, 2021 16571-16584*
- Shankaran, R.**, see Thomas, D., *JIoT March 1, 2021 3587-3604*
- Shao, J.**, see Mahdikhani, H., *JIoT March 15, 2021 4762-4774*
- Shao, J.**, see Zhang, S., *JIoT June 1, 2021 9139-9150*
- Shao, J.**, see Zhang, X., *JIoT July 15, 2021 11758-11772*
- Shao, J.**, see Guan, Y., *JIoT Sept. 15, 2021 14219-14231*
- Shao, J.**, see Guan, Y., *JIoT Nov. 15, 2021 16243-16255*
- Shao, Z.**, see Zhu, J., *JIoT Sept. 1, 2021 13542-13554*
- Shao, Z.**, see Gao, X., *JIoT Oct. 1, 2021 14683-14704*
- Sharafeddine, S.**, see Khabbaz, M., *JIoT July 1, 2021 10745-10754*
- Shareh, M.B.**, see Sangaiah, A.K., *JIoT June 15, 2021 9753-9762*
- Shariati, N.**, see Amiri, M., *JIoT March 15, 2021 4105-4131*
- Sharif, A.**, Zhai, G., Jia, J., Min, X., Zhu, X., and Zhang, J., An Accurate and Efficient 1-D Barcode Detector for Medium of Deployment in IoT Systems; *JIoT Jan. 15, 2021 889-900*
- Sharif, A.**, Zhai, G., Min, X., Jia, J., and Munir, K., Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems; *JIoT Dec. 15, 2021 17495-17507*
- Sharma, A.**, see Kumar, A., *JIoT Dec. 15, 2021 17778-17789*
- Sharma, P.**, and Liu, H., A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles; *JIoT March 15, 2021 4991-4999*
- Sharma, P.K.**, see Liao, Z., *JIoT April 1, 2021 5298-5308*
- Sharma, R.**, and Badarla, V., A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem; *JIoT Sept. 1, 2021 13439-13448*
- Sharma, S.K.**, see Nguyen, V., *JIoT March 1, 2021 3394-3409*

- Shehab, M.**, Alves, H., Jorswieck, E.A., Dosti, E., and Latva-Aho, M., Effective Energy Efficiency of Ultrareliable Low-Latency Communication; *JIoT July 15, 2021 11135-11149*
- Sheltami, T.R.**, see Mahyoub, M., *JIoT May 1, 2021 7152-7169*
- Shen, C.**, see Yu, L., *JIoT Aug. 1, 2021 12046-12063*
- Shen, F.**, see Xu, X., *JIoT April 15, 2021 6187-6196*
- Shen, G.**, see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Shen, H.**, see Li, A., *JIoT Jan. 1, 2021 187-196*
- Shen, H.T.**, see Li, Y., *JIoT April 15, 2021 6337-6347*
- Shen, J.**, see Wang, C., *JIoT June 1, 2021 9317-9329*
- Shen, J.**, see Wang, C., *JIoT Sept. 15, 2021 14248-14257*
- Shen, K.**, see Zhou, P., *JIoT July 1, 2021 10237-10247*
- Shen, L.**, Wu, C., Su, W., and Feng, K., Analysis and Implementation for Traffic-Aware Channel Assignment and Contention Scheme in LoRa-Based IoT Networks; *JIoT July 15, 2021 11368-11383*
- Shen, M.**, Wang, H., Zhang, B., Zhu, L., Xu, K., Li, Q., and Du, X., Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing; *JIoT Feb. 15, 2021 2265-2275*
- Shen, M.**, Liu, A., Huang, G., Xiong, N.N., and Lu, H., ATTDCC: An Active and Traceable Trust Data Collection Scheme for Industrial Security in Smart Cities; *JIoT April 15, 2021 6437-6453*
- Shen, M.**, see Zhu, L., *JIoT Aug. 1, 2021 12106-12118*
- Shen, S.**, Zhang, Y., Chiu, C., and Murch, R., Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things; *JIoT April 1, 2021 5850-5865*
- Shen, S.**, see Liu, J., *JIoT May 1, 2021 7546-7561*
- Shen, S.**, Yu, C., Zhang, K., and Ci, S., Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network; *JIoT Nov. 15, 2021 16269-16278*
- Shen, T.**, see Xu, Y., *JIoT Feb. 1, 2021 1716-1727*
- Shen, X.**, see Huang, X., *JIoT Jan. 1, 2021 610-625*
- Shen, X.**, see Zhao, Y., *JIoT March 15, 2021 4841-4854*
- Shen, X.**, see Jia, P., *JIoT March 15, 2021 4548-4559*
- Shen, X.**, see Cao, X., *JIoT March 15, 2021 4526-4539*
- Shen, X.**, see Liu, G., *JIoT April 15, 2021 6578-6590*
- Shen, X.**, see Lyu, L., *JIoT May 15, 2021 7889-7901*
- Shen, X.**, see Gao, J., *JIoT June 15, 2021 9958-9969*
- Shen, X.**, see Shi, W., *JIoT June 15, 2021 9800-9813*
- Shen, X.**, see Gao, J., *JIoT June 15, 2021 9945-9957*
- Shen, X.**, see Li, J., *JIoT July 15, 2021 11219-11232*
- Shen, X.**, see Xu, Y., *JIoT July 15, 2021 11427-11439*
- Shen, X.**, see Zhou, J., *JIoT Aug. 1, 2021 12311-12328*
- Shen, X.**, see Liang, J., *JIoT Aug. 15, 2021 12528-12539*
- Shen, X.**, see Liu, Y., *JIoT Aug. 15, 2021 12999-13013*
- Shen, X.**, see Jia, P., *JIoT Sept. 15, 2021 14028-14038*
- Shen, X.**, see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Shen, X.**, see Li, J., *JIoT Nov. 15, 2021 16313-16325*
- Shen, X.**, see Liang, J., *JIoT Dec. 1, 2021 17029-17042*
- Shen, X.**, see Ibrahim, M.I., *JIoT Dec. 1, 2021 17131-17146*
- Shen, Y.**, see Xu, Y., *JIoT Feb. 15, 2021 3000-3013*
- Shen, Y.**, see Wang, T., *JIoT March 1, 2021 3369-3383*
- Shen, Y.**, see Dong, X., *JIoT May 15, 2021 8032-8043*
- Shen, Y.**, see Luo, W., *JIoT May 15, 2021 7833-7848*
- Shen, Y.**, see Guo, Z., *JIoT June 15, 2021 9549-9558*
- Shen, Y.**, see Liu, Y., *JIoT Aug. 15, 2021 12999-13013*
- Shen, Y.**, see Qiu, G., *JIoT Nov. 1, 2021 16165-16180*
- Shen, Y.**, Zhang, H., Fan, Y., Lee, A.P., and Xu, L., Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation; *JIoT Dec. 1, 2021 16770-16778*
- Shen, Z.**, see Zhang, T., *JIoT Feb. 15, 2021 2751-2761*
- Sheng, H.**, Wang, S., Zhang, Y., Yu, D., Cheng, X., Lyu, W., and Xiong, Z., Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing; *JIoT Feb. 15, 2021 2193-2207*
- Sheng, H.**, Lv, K., Liu, Y., Ke, W., Lyu, W., Xiong, Z., and Li, W., Combining Pose Invariant and Discriminative Features for Vehicle Reidentification; *JIoT March 1, 2021 3189-3200*
- Sheng, J.**, see Wang, C., *JIoT March 15, 2021 4788-4801*
- Sheng, M.**, see Zhu, Y., *JIoT May 1, 2021 7126-7139*
- Sheng, M.**, see Jia, Z., *JIoT June 15, 2021 9814-9826*
- Sheng, Q.Z.**, see Chen, D., *JIoT July 15, 2021 11193-11207*
- Sheng, Z.**, see Ayaz, F., *JIoT Feb. 15, 2021 2468-2482*
- Sheng, Z.**, see Zhou, J., *JIoT Aug. 1, 2021 12311-12328*
- Sheri, A.M.**, see Rauf, B., *JIoT April 15, 2021 6359-6371*
- Shi, D.**, see Li, L., *JIoT March 15, 2021 4317-4328*
- Shi, F.**, see Ning, H., *JIoT April 1, 2021 6077-6088*
- Shi, H.**, Zheng, M., Liang, W., Zhang, J., Wang, K., and Liu, S., Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems; *JIoT Jan. 1, 2021 381-392*
- Shi, H.**, see Guo, R., *JIoT June 1, 2021 8949-8963*
- Shi, H.**, see Zhao, Y., *JIoT Dec. 1, 2021 16933-16945*
- Shi, J.**, see Na, Z., *JIoT Oct. 15, 2021 15041-15048*
- Shi, L.**, Ye, Y., Chu, X., and Lu, G., Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network; *JIoT July 1, 2021 10731-10744*
- Shi, Q.**, see Yu, H., *JIoT Nov. 1, 2021 16096-16107*
- Shi, S.**, Xiao, Y., Lou, W., Wang, C., Li, X., Hou, Y.T., and Reed, J.H., Challenges and New Directions in Securing Spectrum Access Systems; *JIoT April 15, 2021 6498-6518*
- Shi, S.**, see Zhang, J., *JIoT April 15, 2021 6205-6213*
- Shi, S.**, see Zhao, Y., *JIoT June 1, 2021 8865-8882*
- Shi, T.**, see Cai, Z., *JIoT Aug. 15, 2021 12679-12693*
- Shi, W.**, see Zhang, Q., *JIoT Feb. 1, 2021 1946-1958*
- Shi, W.**, see Liu, L., *JIoT April 15, 2021 6469-6486*
- Shi, W.**, Li, J., Wu, H., Zhou, C., Cheng, N., and Shen, X., Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach; *JIoT June 15, 2021 9800-9813*
- Shi, W.**, see Lu, S., *JIoT July 1, 2021 10222-10236*
- Shi, W.**, see Li, J., *JIoT July 15, 2021 11219-11232*
- Shi, W.**, Wang, W., Yu, Y., Zhang, S., Cao, Y., Yan, S., and Gao, J., Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization; *JIoT Oct. 1, 2021 14572-14588*
- Shi, W.**, see Li, J., *JIoT Nov. 15, 2021 16313-16325*
- Shi, X.**, see Huang, D., *JIoT Jan. 1, 2021 585-595*
- Shi, X.**, see Rahulamathavan, Y., *JIoT Feb. 1, 2021 1417-1427*
- Shi, X.**, see Chen, B., *JIoT July 1, 2021 10248-10263*
- Shi, Y.**, see Wang, Z., *JIoT Feb. 1, 2021 1585-1598*
- Shi, Y.**, Hamdan, M.Q., Alsusa, E., Hamdi, K.A., and Baidas, M.W., A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs; *JIoT Dec. 15, 2021 17261-17274*
- Shi, Z.**, see Sun, Y., *JIoT Jan. 15, 2021 1197-1210*
- Shi, Z.**, see Sun, Y., *JIoT Jan. 15, 2021 1071-1081*
- Shi, Z.**, see Qian, L.P., *JIoT Feb. 15, 2021 2150-2162*
- Shi, Z.**, Xie, X., Lu, H., Yang, H., Kadoch, M., and Cheriet, M., Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things; *JIoT March 1, 2021 3476-3489*
- Shi, Z.**, see Zhang, H., *JIoT April 1, 2021 5632-5644*
- Shi, Z.**, see Li, X., *JIoT Aug. 1, 2021 12176-12188*
- Shi, Z.J.**, see Faulkner, E., *JIoT June 1, 2021 9206-9218*
- Shih, T.K.**, see Cho, H., *JIoT Feb. 15, 2021 2379-2394*
- Shihada, B.**, see Hammouti, H.E., *JIoT Sept. 15, 2021 14066-14079*
- Shim, K.**, see Nguyen, T., *JIoT May 1, 2021 7423-7436*
- Shim, K.**, Do, T.N., Nguyen, T., Costa, D.B.d., and An, B., Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation; *JIoT Dec. 15, 2021 17476-17494*
- Shim, Y.**, Park, H., and Shin, W., Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries; *JIoT Feb. 15, 2021 2792-2801*
- Shin, K.G.**, see Xiang, C., *JIoT May 15, 2021 8314-8327*
- Shin, W.**, see Shim, Y., *JIoT Feb. 15, 2021 2792-2801*
- Shin, W.**, see Ahmadian, A., *JIoT April 1, 2021 5866-5880*
- Shin, W.**, see Song, D., *JIoT July 1, 2021 10543-10556*
- Shirvanimoghaddam, M.**, see Ghanami, F., *JIoT March 15, 2021 4736-4748*

- Shirvanimoghaddam, M.**, see Nadeem, F., *JIoT Dec. 15, 2021 17596-17610*
- Shmaliy, Y.S.**, see Xu, Y., *JIoT Feb. 1, 2021 1716-1727*
- Shojafar, M.**, see Ghahramani, M., *JIoT March 1, 2021 3619-3635*
- Shojafar, M.**, see Wang, K., *JIoT April 1, 2021 5332-5339*
- Shoorehdeli, M.A.**, see Garmaroodi, M.S.S., *JIoT July 1, 2021 10280-10287*
- Shorten, R.**, see Moschella, M., *JIoT July 15, 2021 11112-11122*
- Shu, L.**, see Zhang, W., *JIoT Feb. 15, 2021 2354-2363*
- Shu, L.**, see Yang, F., *JIoT June 15, 2021 10170-10186*
- Shu, L.**, see Yang, F., *JIoT Aug. 15, 2021 13095-13114*
- Shu, L.**, see Ferrag, M.A., *JIoT Dec. 15, 2021 17236-17260*
- Shukla, A.**, see Jain, S., *JIoT March 15, 2021 4882-4892*
- Shutler, J.**, see Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Si, P.**, see Yang, L., *JIoT Feb. 15, 2021 2318-2329*
- Si, P.**, see Lu, W., *JIoT Oct. 15, 2021 15070-15080*
- Si, W.**, see Qiu, T., *JIoT June 15, 2021 9473-9483*
- Sidorov, M.**, see Khor, J.H., *JIoT Aug. 1, 2021 11960-11982*
- Sifah, E.B.**, Xia, Q., Xia, H., Agyekum, K.O.O., Acheampong, K.N., Cobblah, C.N.A., and Gao, J., Selective Sharing of Outsourced Encrypted Data in Cloud Environments ; *JIoT Sept. 15, 2021 14141-14155*
- Sigg, S.**, see Kianoush, S., *JIoT Jan. 15, 2021 1154-1168*
- Sikdar, B.**, see Aman, M.N., *JIoT Jan. 15, 2021 1123-1139*
- Sikdar, B.**, see Sivaraman, V., *JIoT July 1, 2021 10583-10595*
- Sikdar, B.**, see Upadhyaya, B., *JIoT July 15, 2021 11705-11716*
- Sikdar, B.**, see Chamola, V., *JIoT Nov. 1, 2021 16047-16071*
- Sikora, A.**, see Wozniak, M., *JIoT April 1, 2021 5442-5452*
- Silva, L.**, see Magaia, N., *JIoT Nov. 15, 2021 16452-16472*
- Simsek, M.**, see Zhang, Y., *JIoT Feb. 1, 2021 1334-1346*
- Singh, A.**, see Chawla, N., *JIoT Nov. 15, 2021 16379-16394*
- Singh, A.K.**, see Lv, Z., *JIoT April 1, 2021 5350-5359*
- Singh, A.K.**, see Jin, X., *JIoT April 15, 2021 6324-6336*
- Singh, A.K.**, see Kumar, A., *JIoT Dec. 15, 2021 17778-17789*
- Singh, B.B.**, see Verma, G.K., *JIoT June 1, 2021 9305-9316*
- Singh, D.**, see Grover, H., *JIoT Oct. 1, 2021 14787-14796*
- Singh, H.**, see Verma, G.K., *JIoT June 1, 2021 9305-9316*
- Singh, J.**, Bello, Y., Hussein, A.R., Erbad, A., and Mohamed, A., Hierarchical Security Paradigm for IoT Multiaccess Edge Computing; *JIoT April 1, 2021 5794-5805*
- Singh, K.**, see Raut, P., *JIoT Dec. 15, 2021 17655-17668*
- Singh, N.**, see Saini, A., *JIoT April 1, 2021 5914-5925*
- Singh, N.**, see Awais, M., *JIoT Dec. 1, 2021 16863-16871*
- Singh, P.**, see Chhikara, P., *JIoT April 15, 2021 6949-6962*
- Singh, P.**, Kaur, A., Aujla, G.S., Bath, R.S., and Kanhere, S., DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem; *JIoT Aug. 15, 2021 12569-12577*
- Singh, R.**, Ahmed, T., Kumar Singh, A., Chanak, P., and Singh, S.K., SeizS-Clas: An Efficient and Secure Internet-of-Things-Based EEG Classifier; *JIoT April 15, 2021 6214-6221*
- Singh, R.P.**, see Sudheera, K.L.K., *JIoT April 15, 2021 6591-6607*
- Singh, S.K.**, see Singh, R., *JIoT April 15, 2021 6214-6221*
- Singh, S.K.**, see Kumar, A., *JIoT Dec. 15, 2021 17778-17789*
- Sipos, M.**, see Vestergaard, R., *JIoT Dec. 15, 2021 17568-17583*
- Sisinni, E.**, see Beltramelli, L., *JIoT May 15, 2021 7912-7924*
- Sitnikova, E.**, see Al-Hawawreh, M., *JIoT April 1, 2021 5558-5573*
- Situ, Y.**, see Yi, L., *JIoT March 1, 2021 3108-3119*
- Sivaraman, V.**, see Chinaei, M.H., *JIoT June 15, 2021 10117-10130*
- Sivaraman, V.**, and Sikdar, B., A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids; *JIoT July 1, 2021 10583-10595*
- Skarmeta-Gomez, A.F.**, see Gonzalez-Vidal, A., *JIoT Nov. 1, 2021 16108-16120*
- Skjellum, A.**, see Reising, D., *JIoT May 15, 2021 8356-8371*
- Skoglund, M.**, see Chen, H., *JIoT April 1, 2021 5360-5373*
- Smerdov, A.**, Somov, A., Burnaev, E., Zhou, B., and Lukowicz, P., Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning; *JIoT Nov. 15, 2021 16680-16691*
- Smith, D.**, see Yang, Y., *JIoT March 1, 2021 3567-3575*
- Smith, D.R.**, see Lan, G., *JIoT Sept. 15, 2021 14110-14126*
- Smith, S.C.**, see Fu, J., *JIoT June 15, 2021 9672-9682*
- So, A.M.**, see Xu, Y., *JIoT Feb. 15, 2021 2681-2693*
- Soares, E.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Sodhro, A.H.**, Pirbhulal, S., Luo, Z., Muhammad, K., and Zahid, N.Z., Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems; *JIoT April 1, 2021 5141-5148*
- Sodhro, A.H.**, Gurtov, A., Zahid, N., Pirbhulal, S., Wang, L., Rahman, M.M.U., Imran, M.A., and Abbasi, Q.H., Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes; *JIoT June 15, 2021 9664-9671*
- Sofotasios, P.C.**, see Bariah, L., *JIoT April 1, 2021 5129-5140*
- Soh, S.**, see He, T., *JIoT Oct. 15, 2021 15486-15499*
- Solic, P.**, Leoni, A., Colella, R., Perkovic, T., Catarinucci, L., and Stornelli, V., IoT-Ready Energy-Autonomous Parking Sensor Device; *JIoT March 15, 2021 4830-4840*
- Somov, A.**, see Smerdov, A., *JIoT Nov. 15, 2021 16680-16691*
- Son, H.**, see Jeong, C., *JIoT March 1, 2021 3972-3982*
- Soner, B.**, see Koca, M., *JIoT Jan. 1, 2021 179-186*
- Song, B.**, see Wang, D., *JIoT June 1, 2021 9294-9304*
- Song, B.**, see Zhao, D., *JIoT Aug. 15, 2021 12855-12879*
- Song, C.**, Xu, W., Han, G., Zeng, P., Wang, Z., and Yu, S., A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IloT; *JIoT May 1, 2021 7510-7520*
- Song, C.**, see Wang, Z., *JIoT Sept. 15, 2021 14372-14384*
- Song, D.**, see Sha, C., *JIoT Feb. 15, 2021 2649-2669*
- Song, D.**, Shin, W., Lee, J., and Poor, H.V., Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach; *JIoT July 1, 2021 10543-10556*
- Song, E.**, see Lu, J., *JIoT Nov. 1, 2021 15839-15846*
- Song, G.**, see Kong, D., *JIoT Aug. 15, 2021 12880-12891*
- Song, H.**, see Ma, J., *JIoT Feb. 1, 2021 1492-1503*
- Song, H.**, see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Song, H.**, see Yu, W., *JIoT March 1, 2021 3053-3056*
- Song, H.**, see Ali, B., *JIoT March 1, 2021 3822-3830*
- Song, H.**, see Abdel-Basset, M., *JIoT March 15, 2021 4969-4979*
- Song, H.**, see Lv, Z., *JIoT April 1, 2021 5350-5359*
- Song, H.**, see Lv, Z., *JIoT April 15, 2021 6273-6281*
- Song, H.**, see Thakker, U., *JIoT June 1, 2021 8747-8773*
- Song, H.**, see Lv, Z., *JIoT June 15, 2021 9531-9538*
- Song, H.**, see Jiang, B., *JIoT July 1, 2021 10430-10451*
- Song, H.**, Liu, L., Ashdown, J., and Yi, Y., A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access; *JIoT July 15, 2021 11208-11218*
- Song, H.**, see Abdel-Basset, M., *JIoT Aug. 15, 2021 12638-12649*
- Song, H.**, see Khan, F., *JIoT Oct. 1, 2021 14835-14844*
- Song, H.**, see Patel, N.S., *JIoT Oct. 1, 2021 14797-14809*
- Song, H.**, see Hou, W., *JIoT Nov. 15, 2021 16256-16268*
- Song, H.**, see Liu, Y., *JIoT Dec. 1, 2021 17227-17235*
- Song, H.**, see Bai, J., *JIoT Dec. 15, 2021 17417-17428*
- Song, J.**, see Miao, Y., *JIoT Feb. 15, 2021 2289-2299*
- Song, J.**, Han, K., and Stettler, M.E.J., Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing ; *JIoT May 1, 2021 7649-7660*
- Song, J.**, see Wang, T., *JIoT June 1, 2021 9014-9029*
- Song, J.**, see Nkenyereye, L., *JIoT July 15, 2021 11233-11248*
- Song, J.**, see Hwang, J., *JIoT July 15, 2021 11526-11547*
- Song, J.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Song, J.**, see Hu, X., *JIoT Nov. 1, 2021 15649-15651*
- Song, L.**, see Gao, J., *JIoT Jan. 1, 2021 428-442*
- Song, L.**, see Sun, G., *JIoT Feb. 1, 2021 1971-1984*
- Song, L.**, Striegel, A., and Mohammed, A., Sniffing Only Control Packets: A Lightweight Client-Side WiFi Traffic Characterization Solution ; *JIoT April 15, 2021 6536-6548*
- Song, L.**, see Debbah, M., *JIoT June 15, 2021 9774-9775*
- Song, M.**, see Ding, X., *JIoT Jan. 15, 2021 802-812*
- Song, M.**, see Ou, Z., *JIoT May 1, 2021 7279-7287*
- Song, M.**, Lee, Y., and Kim, K., Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing; *JIoT Sept. 1, 2021 13425-13438*

- Song, M.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Song, Q.**, see Lin, P., *JIoT Nov. 1, 2021 15749-15761*
- Song, R.**, see Li, C., *JIoT Feb. 15, 2021 2802-2813*
- Song, S.**, see Lee, G., *JIoT Nov. 15, 2021 16406-16417*
- Song, X.**, and Chin, K., A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks; *JIoT Aug. 1, 2021 12329-12338*
- Song, Y.**, Yu, F.R., Zhou, L., Yang, X., and He, Z., Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey; *JIoT March 15, 2021 4250-4274*
- Song, Y.**, Gao, S., Li, Y., Jia, L., Li, Q., and Pang, F., Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction; *JIoT June 15, 2021 9594-9602*
- Song, Z.**, Hao, Y., Liu, Y., and Sun, X., Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things; *JIoT Sept. 15, 2021 14202-14218*
- Sonkoly, B.**, see Pelle, I., *JIoT May 15, 2021 7954-7972*
- Sooriyaarachchi, J.**, Seneviratne, S., Thilakarathna, K., and Zomaya, A.Y., MusicID: A Brainwave-Based User Authentication System for Internet of Things; *JIoT May 15, 2021 8304-8313*
- Sotelo, M.A.**, see Ma, Y., *JIoT April 1, 2021 5822-5838*
- Soto, M.J.C.V.**, see Ramson, S.R.J., *JIoT June 1, 2021 9278-9293*
- Sousa, B.**, see Magaia, N., *JIoT Nov. 15, 2021 16452-16472*
- Souza, R.D.**, see Lopez, O.L.A., *JIoT Jan. 1, 2021 278-296*
- Souza, R.D.**, see de Jesus, G.G.M., *JIoT April 1, 2021 6053-6061*
- Souza, R.D.**, see Lopez, O.L.A., *JIoT June 1, 2021 8816-8835*
- Souza, R.D.**, see Farhat, J., *JIoT Oct. 1, 2021 14672-14682*
- Soysaldi, M.**, see Akleyek, S., *JIoT April 15, 2021 6983-6994*
- Sri, R.L.**, see Divya, V., *JIoT May 15, 2021 8133-8144*
- Srinivas, J.**, Das, A.K., Wazid, M., and Vasilakos, A.V., Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System; *JIoT May 1, 2021 7727-7744*
- Srirama, S.N.**, see Hazra, A., *JIoT April 1, 2021 5185-5193*
- Srivastava, G.**, see Zhu, D., *JIoT March 1, 2021 3201-3210*
- Srivastava, G.**, see Manogaran, G., *JIoT March 1, 2021 3360-3368*
- Srivastava, G.**, see Lin, J.C., *JIoT April 1, 2021 5340-5349*
- Srivastava, G.**, see Yazdinejad, A., *JIoT April 15, 2021 6406-6415*
- Srivastava, G.**, see Syu, J., *JIoT July 1, 2021 10347-10355*
- Srivastava, G.**, see Gopikrishnan, S., *JIoT July 15, 2021 11345-11356*
- Srivastava, G.**, Lin, J.C., Zhang, X., and Li, Y., Large-Scale High-Utility Sequential Pattern Analytics in Internet of Things; *JIoT Aug. 15, 2021 12669-12678*
- St-Onge, D.**, see Cao, Y., *JIoT Sept. 1, 2021 13449-13464*
- Stankovic, J.A.**, see Ma, M., *JIoT Aug. 1, 2021 11793-11806*
- Stanoev, A.**, see Aijaz, A., *JIoT Aug. 1, 2021 11860-11876*
- Starace, L.L.L.**, see Casola, V., *JIoT Aug. 15, 2021 12724-12733*
- Stefanacci, P.**, see Deese, A.S., *JIoT Jan. 1, 2021 222-231*
- Stergiou, C.L.**, Psannis, K.E., and Gupta, B.B., IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network ; *JIoT April 1, 2021 5164-5171*
- Stettler, M.E.J.**, see Song, J., *JIoT May 1, 2021 7649-7660*
- Stornelli, V.**, see Solic, P., *JIoT March 15, 2021 4830-4840*
- Storti, E.**, see Diamantini, C., *JIoT April 1, 2021 6127-6139*
- Strbac, G.**, see Li, J., *JIoT Jan. 15, 2021 734-749*
- Striegel, A.**, see Song, L., *JIoT April 15, 2021 6536-6548*
- Su, C.**, see Zhao, L., *JIoT March 1, 2021 3211-3223*
- Su, C.**, see Ge, C., *JIoT Aug. 15, 2021 12481-12489*
- Su, H.**, see Qian, Y., *JIoT May 1, 2021 7676-7690*
- Su, L.**, see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Su, L.**, and Lau, V.K.N., Hierarchical Federated Learning for Hybrid Data Partitioning Across Multitype Sensors; *JIoT July 1, 2021 10922-10939*
- Su, T.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Su, T.**, see Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Su, W.**, see Shen, L., *JIoT July 15, 2021 11368-11383*
- Su, Y.**, Liwang, M., Gao, Z., Huang, L., Du, X., and Guizani, M., Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning; *JIoT Jan. 15, 2021 791-801*
- Su, Y.**, Guo, L., Jin, Z., and Fu, X., A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks; *JIoT March 1, 2021 3653-3664*
- Su, Y.**, Li, Y., Li, J., and Zhang, K., LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid; *JIoT Oct. 15, 2021 15639-15648*
- Su, Y.**, Ding, T., and Chen, M., Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System; *JIoT Dec. 1, 2021 16921-16932*
- Su, Z.**, see Li, J., *JIoT Sept. 1, 2021 13183-13195*
- Su, Z.**, see Xu, Q., *JIoT Nov. 15, 2021 16473-16485*
- Subedi, M.**, see Seshadri, S.S., *JIoT March 1, 2021 3346-3359*
- Sudheera, K.L.K.**, Divakaran, D.M., Singh, R.P., and Gurusamy, M., ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks; *JIoT April 15, 2021 6591-6607*
- Suhail, S.**, Hussain, R., Khan, A., and Hong, C.S., On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions; *JIoT Jan. 1, 2021 1-17*
- Sultania, A.K.**, Blondia, C., and Famaey, J., Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX; *JIoT Aug. 1, 2021 12436-12454*
- Suman, S.**, see Kumar, S., *JIoT June 15, 2021 9920-9933*
- Sun, B.**, see Liu, L., *JIoT April 15, 2021 6677-6691*
- Sun, C.**, see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Sun, D.**, see Lan, H., *JIoT Feb. 15, 2021 2814-2825*
- Sun, D.**, see Xia, D., *JIoT July 15, 2021 11666-11677*
- Sun, D.**, see Wu, H., *JIoT July 15, 2021 11514-11525*
- Sun, E.**, see Yang, L., *JIoT Feb. 15, 2021 2318-2329*
- Sun, F.**, Zang, W., Huang, H., Farkhatdinov, I., and Li, Y., Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices; *JIoT Feb. 1, 2021 1636-1650*
- Sun, G.**, Song, L., Yu, H., Du, X., and Guizani, M., A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles; *JIoT Feb. 1, 2021 1971-1984*
- Sun, G.**, see Wang, Y., *JIoT March 1, 2021 3446-3461*
- Sun, G.**, Dai, M., Sun, J., and Yu, H., Voting-Based Decentralized Consensus Design for Improving the Efficiency and Security of Consortium Blockchain; *JIoT April 15, 2021 6257-6272*
- Sun, G.**, see Wu, C., *JIoT June 1, 2021 9151-9163*
- Sun, G.**, see Xu, X., *JIoT July 1, 2021 10596-10607*
- Sun, G.**, see Seid, A.M., *JIoT Aug. 1, 2021 12203-12218*
- Sun, G.**, see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
- Sun, H.**, see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Sun, J.**, see Wang, J., *JIoT Feb. 1, 2021 1883-1895*
- Sun, J.**, see Huang, J., *JIoT April 1, 2021 5531-5543*
- Sun, J.**, see Sun, G., *JIoT April 15, 2021 6257-6272*
- Sun, J.**, Chen, D., Zhang, N., Xu, G., Tang, M., Nie, X., and Cao, M., A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT ; *JIoT June 15, 2021 10034-10046*
- Sun, J.**, see Chang, H., *JIoT June 15, 2021 9865-9877*
- Sun, J.**, Khan, F., Li, J., Alshehri, M.D., Alturki, R., and Wedyan, M., Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things; *JIoT Nov. 1, 2021 15663-15671*
- Sun, J.**, see Banavar, M.K., *JIoT Dec. 1, 2021 17111-17119*
- Sun, L.**, see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Sun, M.**, see Wang, B., *JIoT Feb. 1, 2021 1830-1845*
- Sun, M.**, Xu, X., Huang, Y., Wu, Q., Tao, X., and Zhang, P., Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks; *JIoT May 15, 2021 8005-8020*
- Sun, M.**, Xu, X., Qin, X., and Zhang, P., AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method; *JIoT Dec. 15, 2021 17275-17289*
- Sun, P.**, see Wu, L., *JIoT Aug. 1, 2021 12339-12349*
- Sun, Q.**, see Ma, X., *JIoT Aug. 15, 2021 13115-13125*
- Sun, Q.**, see Li, Y., *JIoT Nov. 15, 2021 16370-16378*
- Sun, R.**, Wang, G., Cheng, Q., Fu, L., Chiang, K., Hsu, L., and Ochieng, W.Y., Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning; *JIoT April 15, 2021 7065-7078*

- Sun, S.**, see Li, A., *JIoT Jan. 1, 2021 187-196*
- Sun, S.**, see Mollah, M.B., *JIoT March 15, 2021 4157-4185*
- Sun, S.**, see Upadhyaya, B., *JIoT July 15, 2021 11705-11716*
- Sun, S.**, see Fu, M., *JIoT Oct. 15, 2021 15059-15069*
- Sun, S.**, see Wang, D., *JIoT Dec. 15, 2021 17345-17355*
- Sun, X.**, Yang, W., Cai, Y., and Wang, M., Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays; *JIoT Jan. 1, 2021 528-540*
- Sun, X.**, see Zhan, W., *JIoT Sept. 1, 2021 13237-13250*
- Sun, X.**, see Song, Z., *JIoT Sept. 15, 2021 14202-14218*
- Sun, Y.**, Kumar, S., He, S., Chen, J., and Shi, Z., You Foot the Bill! Attacking NFC With Passive Relays; *JIoT Jan. 15, 2021 1197-1210*
- Sun, Y.**, Chen, J., He, S., and Shi, Z., High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network; *JIoT Jan. 15, 2021 1071-1081*
- Sun, Y.**, see Wang, B., *JIoT Feb. 1, 2021 1388-1405*
- Sun, Y.**, see Wang, B., *JIoT Feb. 1, 2021 1830-1845*
- Sun, Y.**, see Zhang, K., *JIoT Feb. 1, 2021 1347-1357*
- Sun, Y.**, see Gu, S., *JIoT Feb. 15, 2021 2135-2149*
- Sun, Y.**, see Zhu, D., *JIoT March 1, 2021 3201-3210*
- Sun, Y.**, see Yang, X., *JIoT Aug. 15, 2021 12968-12982*
- Sun, Y.**, see Zhang, Y., *JIoT Dec. 1, 2021 16872-16879*
- Sun, Z.**, see Yang, H., *JIoT April 15, 2021 6940-6948*
- Sun, Z.**, see Luo, B., *JIoT June 1, 2021 8734-8746*
- Sun, Z.**, see Deng, X., *JIoT Aug. 15, 2021 12559-12568*
- Sung, C.W.**, see Mishra, S., *JIoT July 15, 2021 11305-11319*
- Sung, D.K.**, see Jang, H.S., *JIoT Oct. 15, 2021 15349-15360*
- Sung, N.**, see Hwang, J., *JIoT July 15, 2021 11526-11547*
- Sung, N.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Sutrala, A.K.**, see Vangala, A., *JIoT July 1, 2021 10792-10806*
- Swain, C.**, Sahoo, M.N., Satpathy, A., Muhammad, K., Bakshi, S., Rodrigues, J.J.P.C., and de Albuquerque, V.H.C., METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks ; *JIoT Aug. 15, 2021 12705-12715*
- Swindlehurst, A.L.**, see Wu, S., *JIoT Jan. 1, 2021 487-500*
- Syu, J.**, Wu, M., Srivastava, G., Chao, C., and Lin, J.C., An IoT-Based Hedge System for Solar Power Generation; *JIoT July 1, 2021 10347-10355*
- Szalachowski, P.**, see Li, Z., *JIoT Jan. 15, 2021 844-859*
- T**
- Tabatabai, S.**, see Mohammed, I., *JIoT April 1, 2021 5938-5952*
- Tafazolli, R.**, see Ghahramani, M., *JIoT March 1, 2021 3619-3635*
- Tagami, A.**, see Zhang, T., *JIoT Feb. 15, 2021 2751-2761*
- Taghizadeh, S.**, Elbiaze, H., and Bobarshad, H., EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments ; *JIoT May 15, 2021 8474-8487*
- Taheri, R.**, see Ghahramani, M., *JIoT March 1, 2021 3619-3635*
- Tai, Y.**, Gao, B., Li, Q., Yu, Z., Zhu, C., and Chang, V., Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access; *JIoT Nov. 1, 2021 15965-15976*
- Tajin, M.A.S.**, Amanatides, C.E., Dion, G., and Dandekar, K.R., Passive UHF RFID-Based Knitted Wearable Compression Sensor; *JIoT Sept. 1, 2021 13763-13773*
- Takada, H.**, see Tao, L., *JIoT July 15, 2021 11548-11560*
- Taleb, T.**, see Leung, V.C.M., *JIoT Feb. 15, 2021 2082-2086*
- Taleb, T.**, see Xu, Y., *JIoT Feb. 15, 2021 3000-3013*
- Talebpour, A.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Talebpour, M.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Talebpour, Z.**, see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Talhi, C.**, see Abdulrahman, S., *JIoT March 15, 2021 4723-4735*
- Talhi, C.**, see Abdulrahman, S., *JIoT April 1, 2021 5476-5497*
- Tan, E.**, Karmapi, F.A., Ng, L.J., Ooi, K., and Gan, W., Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System; *JIoT Sept. 15, 2021 14308-14321*
- Tan, F.**, see Feng, J., *JIoT Dec. 1, 2021 16801-16813*
- Tan, R.**, see Zhao, Y., *JIoT Feb. 1, 2021 1817-1829*
- Tan, Y.**, see Lei, L., *JIoT May 15, 2021 7938-7953*
- Tan, Z.**, see Zhao, L., *JIoT March 1, 2021 3211-3223*
- Tang, D.**, see Long, Y., *JIoT July 1, 2021 10896-10910*
- Tang, D.**, see Hu, D., *JIoT July 15, 2021 11487-11502*
- Tang, G.**, see Gu, S., *JIoT Feb. 15, 2021 2135-2149*
- Tang, G.**, see Yuan, H., *JIoT Oct. 1, 2021 14985-14998*
- Tang, G.**, see Qiu, G., *JIoT Nov. 1, 2021 16165-16180*
- Tang, H.**, see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Tang, M.**, see Sun, J., *JIoT June 15, 2021 10034-10046*
- Tang, M.**, Cai, S., and Lau, V.K.N., Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems ; *JIoT Oct. 1, 2021 14638-14657*
- Tang, P.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Tang, Q.**, see Xie, R., *JIoT Jan. 1, 2021 345-356*
- Tang, Q.**, Fei, Z., Li, B., and Han, Z., Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing; *JIoT June 1, 2021 9164-9176*
- Tang, S.**, see Guo, J., *JIoT July 15, 2021 11078-11087*
- Tang, X.**, Chen, X., Zeng, L., Yu, S., and Chen, L., Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence; *JIoT June 15, 2021 9511-9522*
- Tang, X.**, see Zhu, L., *JIoT Aug. 1, 2021 12106-12118*
- Tang, X.**, Xie, G., and Cui, Y., Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting; *JIoT Sept. 1, 2021 13737-13749*
- Tang, Y.**, see Fu, S., *JIoT June 15, 2021 10209-10219*
- Tang, Y.**, see Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Tang, Y.**, see Gao, X., *JIoT Oct. 1, 2021 14683-14704*
- Tang, Y.**, Huang, Y., Chae, C., Duan, W., Wen, M., and Yang, L., Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT; *JIoT Nov. 1, 2021 16023-16034*
- Tanwar, S.**, see Prerna, D., *JIoT March 15, 2021 4816-4829*
- Tanwar, S.**, see Aggarwal, S., *JIoT April 1, 2021 5416-5441*
- Tanwar, S.**, see Thakker, U., *JIoT June 1, 2021 8747-8773*
- Tanwar, S.**, see Patel, N.S., *JIoT Oct. 1, 2021 14797-14809*
- Tanwar, S.**, see Vekaria, D., *JIoT Nov. 1, 2021 15977-15989*
- Tao, D.**, see Yang, X., *JIoT March 15, 2021 4980-4990*
- Tao, D.**, see Zhang, J., *JIoT May 15, 2021 7789-7817*
- Tao, D.**, see Mo, Y., *JIoT Sept. 15, 2021 14039-14050*
- Tao, L.**, Watanabe, Y., Li, Y., Yamada, S., and Takada, H., Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties; *JIoT July 15, 2021 11548-11560*
- Tao, T.**, see Chen, J., *JIoT Dec. 15, 2021 17508-17524*
- Tao, X.**, see Sun, M., *JIoT May 15, 2021 8005-8020*
- Tao, Y.**, see Chen, S., *JIoT March 1, 2021 3276-3286*
- Tao, Y.**, see Zhang, Y., *JIoT May 15, 2021 8223-8233*
- Tao, Y.**, see Xu, L., *JIoT Sept. 1, 2021 13355-13366*
- Tao, Y.**, Li, B., and Zhao, C., Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid ; *JIoT Oct. 15, 2021 15407-15421*
- Tao, Z.**, see Guo, K., *JIoT Aug. 15, 2021 12623-12637*
- Tapparel, J.**, see Afisiadis, O., *JIoT July 15, 2021 11581-11593*
- Tarekegn, G.B.**, Juang, R., Lin, H., Adege, A.B., and Munaye, Y.Y., D_{FOPS}: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks; *JIoT March 1, 2021 3717-3729*
- Tariq, M.**, Ali, M., Naeem, F., and Poor, H.V., Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems; *JIoT April 1, 2021 5468-5475*
- Tariq, U.**, see Anbalagan, S., *JIoT Sept. 15, 2021 13950-13957*
- Tarkoma, S.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- Tarkoma, S.**, see Pal, R., *JIoT July 15, 2021 11773-11775*
- Tarkoma, S.**, see Li, T., *JIoT Dec. 1, 2021 16723-16733*
- Tavana, M.**, Ozger, M., Baltaci, A., Schleicher, B., Schupke, D., and Cavdar, C., Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements; *JIoT Aug. 1, 2021 11834-11846*
- Tazrin, T.**, see Sakib, S., *JIoT April 1, 2021 5285-5297*
- Tehrani, Y.H.**, Amini, A., and Atarodi, S.M., A Tree-Structured LoRa Network for Energy Efficiency ; *JIoT April 1, 2021 6002-6011*

- Tekchandani, R.**, see Chhikara, P., *JIoT March 15, 2021 4448-4460*
- Tekchandani, R.**, see Prena, D., *JIoT March 15, 2021 4816-4829*
- Tekchandani, R.**, see Chhikara, P., *JIoT April 15, 2021 6949-6962*
- Tekchandani, R.**, see Chhikara, P., *JIoT Aug. 15, 2021 12597-12609*
- Tekchandani, R.**, see Chhikara, P., *JIoT Oct. 15, 2021 15456-15467*
- Teng, L.**, see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Tentzeris, M.M.**, see Eid, A., *JIoT Oct. 1, 2021 14719-14730*
- Tewes, S.**, and Sezgin, A., WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers; *JIoT June 1, 2021 9099-9108*
- Thakkar, A.**, see Lohiya, R., *JIoT June 1, 2021 8774-8798*
- Thakker, U.**, Patel, R., Tanwar, S., Kumar, N., and Song, H., Blockchain for Diamond Industry: Opportunities and Challenges; *JIoT June 1, 2021 8747-8773*
- Thanh, N.H.**, Trung Kien, N., Hoa, N.V., Huong, T.T., Wamser, F., and Hossfeld, T., Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications; *JIoT Sept. 1, 2021 13465-13486*
- Thean, A.V.**, see Veluri, H., *JIoT June 1, 2021 9219-9232*
- Theodorou, T.**, and Mamatas, L., SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things; *JIoT March 15, 2021 4604-4617*
- Thilakarathna, K.**, see Sooriyaarachchi, J., *JIoT May 15, 2021 8304-8313*
- Thomas, D.**, Orgun, M., Hitchens, M., Shankaran, R., Mukhopadhyay, S.C., and Ni, W., A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications; *JIoT March 1, 2021 3587-3604*
- Thomos, N.**, see Hu, J., *JIoT Feb. 15, 2021 2102-2115*
- Thompson, J.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Thompson, J.S.**, see Liu, Q., *JIoT Dec. 1, 2021 17014-17028*
- Thrane, J.**, see Malarski, K.M., *JIoT April 15, 2021 6746-6756*
- Thumbur, G.**, Rao, G.S., Reddy, P.V., Gayathri, N.B., Reddy, D.V.R.K., and Padmavathamma, M., Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks; *JIoT Feb. 1, 2021 1908-1920*
- Thuraisingham, B.**, see Qiu, M., *JIoT June 15, 2021 9460-9462*
- Tian, D.**, see Ayaz, F., *JIoT Feb. 15, 2021 2468-2482*
- Tian, D.**, see Zhou, J., *JIoT Aug. 1, 2021 12311-12328*
- Tian, J.**, Wang, B., Li, T., Shang, F., Cao, K., and Guo, R., TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems; *JIoT Jan. 15, 2021 1001-1015*
- Tian, J.**, see Huang, J., *JIoT Oct. 15, 2021 15228-15239*
- Tian, L.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Tian, Q.**, see Chen, X., *JIoT May 1, 2021 7466-7475*
- Tian, R.**, see Xie, W., *JIoT Feb. 15, 2021 2931-2942*
- Tian, W.**, see Guo, W., *JIoT March 1, 2021 3576-3586*
- Tian, W.**, Du, M., Ji, X., Liu, G., Dai, Y., and Han, Z., Honeypot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game; *JIoT Dec. 15, 2021 17372-17381*
- Tian, X.**, see Zhu, Q., *JIoT Dec. 1, 2021 16734-16748*
- Tian, Y.**, Njilla, L., Yuan, J., and Yu, S., Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference; *JIoT March 1, 2021 3300-3309*
- Tian, Z.**, see Shafiq, M., *JIoT March 1, 2021 3242-3254*
- Tin, P.T.**, see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
- Tiwari, M.**, Misra, S., Bishoyi, P.K., and Yang, L.T., Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments; *JIoT July 1, 2021 10631-10638*
- Tiwary, P.**, see Pandey, A., *JIoT July 1, 2021 10665-10677*
- Tofigh, F.**, see Amiri, M., *JIoT March 15, 2021 4105-4131*
- Tomic, S.**, see Beko, M., *JIoT Dec. 15, 2021 17436-17448*
- Tong, F.**, see Huang, Z., *JIoT April 15, 2021 6385-6392*
- Tong, J.**, Fu, L., and Han, Z., Throughput Enhancement of Full-Duplex CSMA Networks Using Multiplayer Bandits; *JIoT Aug. 1, 2021 11807-11821*
- Tong, L.**, see Zhang, H., *JIoT Oct. 15, 2021 15596-15607*
- Tong, W.**, see Liu, T., *JIoT April 15, 2021 6649-6664*
- Tong, X.**, see Fu, M., *JIoT Oct. 15, 2021 15059-15069*
- Toral-Lopez, V.**, see Moreno-Cruz, F., *JIoT March 1, 2021 3678-3688*
- Torfs, T.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Torre, E.d.l.**, see Marino, R., *JIoT March 15, 2021 4339-4352*
- Tout, H.**, see Mourad, A., *JIoT Jan. 15, 2021 829-843*
- Tout, H.**, see Abdulrahman, S., *JIoT March 15, 2021 4723-4735*
- Tout, H.**, see Abdulrahman, S., *JIoT April 1, 2021 5476-5497*
- Toutain, L.**, see Navas, R.E., *JIoT May 15, 2021 7818-7832*
- Tovar, E.**, see Li, K., *JIoT June 15, 2021 9787-9799*
- Trajanovski, S.**, see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- Tran, D.**, see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
- Tran, N.N.**, Pota, H.R., Tran, Q.N., and Hu, J., Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids; *JIoT June 1, 2021 9422-9435*
- Tran, Q.N.**, see Tran, N.N., *JIoT June 1, 2021 9422-9435*
- Tran, T.**, see Nguyen, T., *JIoT May 1, 2021 7423-7436*
- Travison, T.**, see Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
- Trung Kien, N.**, see Thanh, N.H., *JIoT Sept. 1, 2021 13465-13486*
- Truong, T.P.**, see Tuong, V.D., *JIoT Sept. 1, 2021 13196-13208*
- Tsang, D.H.K.**, see Liu, L., *JIoT April 15, 2021 6677-6691*
- Tseng, F.**, see Cho, H., *JIoT Feb. 15, 2021 2379-2394*
- Tseng, K.**, see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Tseng, K.J.**, see Zhang, W., *JIoT May 15, 2021 8021-8031*
- Tseng, P.**, see Rashid, N., *JIoT Jan. 15, 2021 860-868*
- Tseng, P.**, see Dautta, M., *JIoT May 1, 2021 7600-7609*
- Tseng, Y.**, see Zhang, L., *JIoT May 1, 2021 7333-7345*
- Tu, G.**, see Xiao, G., *JIoT Aug. 15, 2021 12748-12757*
- Tu, G.**, see Chang, Z., *JIoT Sept. 15, 2021 13849-13875*
- Tu, H.**, see Zhao, Y., *JIoT April 1, 2021 5619-5631*
- Tu, J.**, see Han, G., *JIoT April 1, 2021 5219-5229*
- Tu, J.**, see Liang, J., *JIoT Nov. 1, 2021 16083-16095*
- Tu, N.A.**, see Huynh-The, T., *JIoT Feb. 1, 2021 1533-1543*
- Tu, W.**, see Zhou, B., *JIoT May 1, 2021 7203-7213*
- Tubino, E.R.R.**, see Borgiani, V., *JIoT March 15, 2021 4569-4578*
- Tuncer, B.**, see Lau, B.P.L., *JIoT July 15, 2021 11503-11513*
- Tuong, V.D.**, Truong, T.P., Nguyena, T.-V., Noh, W., and Cho, S., Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning; *JIoT Sept. 1, 2021 13196-13208*
- Tupakula, U.**, see Karmakar, K.K., *JIoT April 15, 2021 6549-6564*
- Turnbull, B.**, see Alkadi, O., *JIoT June 15, 2021 9463-9472*
- Tushir, B.**, Dalal, Y., Dezfouli, B., and Liu, Y., A Quantitative Study of DDoS and E-DDoS Attacks on WiFi Smart Home Devices; *JIoT April 15, 2021 6282-6292*
- Tyagi, S.**, see Budhiraja, I., *JIoT March 1, 2021 3143-3156*

U

- Ullah, A.**, see Hussain, T., *JIoT June 15, 2021 9634-9644*
- Ullah, I.**, see Mijuskovic, A., *JIoT Feb. 1, 2021 1797-1816*
- Ullah, R.**, see Rehman, M.A.U., *JIoT May 1, 2021 7661-7675*
- Umer, M.**, see Castiglione, A., *JIoT Nov. 1, 2021 16072-16082*
- Unal, D.**, see Ghubaish, A., *JIoT June 1, 2021 8707-8718*
- Upadhyaya, B.**, Sun, S., and Sikdar, B., Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks; *JIoT July 15, 2021 11705-11716*
- Uprety, A.**, and Rawat, D.B., Reinforcement Learning for IoT Security: A Comprehensive Survey; *JIoT June 1, 2021 8693-8706*
- Ursino, D.**, see Diamantini, C., *JIoT April 1, 2021 6127-6139*

V

- Valadares, D.C.G.**, de Carvalho Cesar Sobrinho, A.A., Perkusich, A., and Gorgonio, K.C., Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications; *JIoT Dec. 1, 2021 17199-17210*
- Valdovinos, A.**, see Perez-Diaz-de-Cerio, D., *JIoT Feb. 15, 2021 2558-2573*
- Valenzuela, J.L.**, see Perez-Diaz-de-Cerio, D., *JIoT Feb. 15, 2021 2558-2573*
- Valero, M.**, see Zhao, L., *JIoT May 1, 2021 7706-7716*
- Valiulahi, I.**, and Masouros, C., Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference; *JIoT March 1, 2021 3605-3618*
- van Liempd, B.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*

- Vangala, A.**, Sutrala, A.K., Das, A.K., and Jo, M., Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming; *JIoT July 1, 2021 10792-10806*
- Varadharajan, V.**, see Karmakar, K.K., *JIoT April 15, 2021 6549-6564*
- Varshney, P.K.**, see Ciunzo, D., *JIoT June 1, 2021 9059-9071*
- Varshney, P.K.**, see Geng, B., *JIoT Aug. 1, 2021 12279-12288*
- Varshney, P.K.**, see Li, C., *JIoT Oct. 15, 2021 15531-15541*
- Vasilakos, A.V.**, see Bera, B., *JIoT April 1, 2021 5744-5761*
- Vasilakos, A.V.**, see Srinivas, J., *JIoT May 1, 2021 7727-7744*
- Vedaei, S.S.**, see Fotovvat, A., *JIoT May 15, 2021 8279-8290*
- Vekaria, D.**, Kumari, A., Tanwar, S., and Kumar, N., ξ boost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting; *JIoT Nov. 1, 2021 15977-15989*
- Veluri, H.**, Li, Y., Niu, J.X., Zamburg, E., and Thean, A.V., High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks; *JIoT June 1, 2021 9219-9232*
- Verikoukis, C.**, see Khan, S.M.Z., *JIoT Oct. 1, 2021 14756-14772*
- Verma, G.K.**, Kumar, N., Gope, P., Singh, B.B., and Singh, H., SCBS: A Short Certificate-Based Signature Scheme With Efficient Aggregation for Industrial-Internet-of-Things Environment ; *JIoT June 1, 2021 9305-9316*
- Verma, R.K.**, see Jain, S., *JIoT March 15, 2021 4882-4892*
- Verma, S.**, Kaur, S., Khan, M.A., S. Sehdev, P., Toward Green Communication in 6G-Enabled Massive Internet of Things; *JIoT April 1, 2021 5408-5415*
- Verma, S.**, Kawamoto, Y., and Kato, N., A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices; *JIoT May 15, 2021 8411-8422*
- Vestergaard, R.**, Zhang, Q., Sipos, M., and Lucani, D.E., Titchy: Online Time-Series Compression With Random Access for the Internet of Things; *JIoT Dec. 15, 2021 17568-17583*
- Vieira, M.**, see Lins, F.A.A., *JIoT June 1, 2021 8667-8679*
- Vijayakumar, P.**, see Vinoth, R., *JIoT March 1, 2021 3801-3811*
- Vijayakumar, P.**, see Wei, F., *JIoT April 1, 2021 5599-5606*
- Vijayakumar, P.**, see Wang, C., *JIoT Sept. 15, 2021 14248-14257*
- Vijayakumar, P.**, see Castiglione, A., *JIoT Nov. 1, 2021 16072-16082*
- Vijayaraghavan, G.**, see Anbalagan, S., *JIoT Sept. 15, 2021 13950-13957*
- Vilajosana, X.**, see Chang, T., *JIoT Feb. 1, 2021 1846-1858*
- Vilela, J.P.**, see Farhat, J., *JIoT Oct. 1, 2021 14672-14682*
- Villadangos, J.**, see Martin-Lammerding, D., *JIoT March 1, 2021 3636-3652*
- Vincent Poor, H.**, see Wang, S., *JIoT Feb. 1, 2021 1358-1372*
- Vincent Poor, H.**, see Nguyen, P.X., *JIoT June 1, 2021 9233-9243*
- Vinoth, R.**, Deborah, L.J., Vijayakumar, P., and Kumar, N., Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT; *JIoT March 1, 2021 3801-3811*
- Visser, H.J.**, see Mercuri, M., *JIoT July 15, 2021 11065-11077*
- Vo, B.**, see Yun, U., *JIoT Dec. 15, 2021 17333-17344*
- Vo, V.**, see Nguyen, T., *JIoT Jan. 15, 2021 766-777*
- Vos, G.**, see Rajendran, V., *JIoT Nov. 15, 2021 16637-16652*
- Vu, H.L.**, see Pokhrel, S.R., *JIoT July 1, 2021 10299-10307*
- Vu, T.**, and Kim, S., Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems ; *JIoT July 15, 2021 11655-11665*
- Vu, T.X.**, see Nguyen, V., *JIoT March 1, 2021 3394-3409*
- Vucetic, B.**, see Liu, W., *JIoT Jan. 15, 2021 723-733*
- Vucetic, B.**, see Ghanami, F., *JIoT March 15, 2021 4736-4748*
- Vucetic, B.**, see Nadeem, F., *JIoT Dec. 15, 2021 17596-17610*
- W**
- Wahab, O.A.**, see Mourad, A., *JIoT Jan. 15, 2021 829-843*
- Wahid, K.A.**, see Fotovvat, A., *JIoT May 15, 2021 8279-8290*
- Wamser, F.**, see Thanh, N.H., *JIoT Sept. 1, 2021 13465-13486*
- Wan, G.C.**, Li, M.M., Yang, Y.L., Xie, L., and Chen, L., Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP; *JIoT May 1, 2021 7476-7484*
- Wan, J.**, see Iqbal, W., *JIoT June 15, 2021 9622-9633*
- Wan, L.**, see Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Wan, S.**, see Chen, C., *JIoT April 1, 2021 5309-5320*
- Wan, S.**, see Peng, K., *JIoT Aug. 1, 2021 12004-12020*
- Wan, S.**, see Deng, X., *JIoT Aug. 15, 2021 12559-12568*
- Wan, W.**, see Wang, Y., *JIoT Sept. 1, 2021 13640-13651*
- Wan, X.**, see Lin, M., *JIoT June 15, 2021 10187-10197*
- Wan, Z.**, see Qi, H., *JIoT March 15, 2021 4472-4484*
- Wang, B.**, see Tian, J., *JIoT Jan. 15, 2021 1001-1015*
- Wang, B.**, see Wang, F., *JIoT Feb. 1, 2021 1294-1307*
- Wang, B.**, Sun, Y., and Xu, X., A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT; *JIoT Feb. 1, 2021 1388-1405*
- Wang, B.**, Sun, Y., Sun, M., and Xu, X., Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks; *JIoT Feb. 1, 2021 1830-1845*
- Wang, B.**, see Zhou, C., *JIoT Feb. 15, 2021 2712-2721*
- Wang, B.**, see Zhan, Y., *JIoT April 1, 2021 5973-5984*
- Wang, B.**, see Zhang, F., *JIoT April 15, 2021 6995-7008*
- Wang, B.**, see Zhang, L., *JIoT May 15, 2021 8644-8656*
- Wang, B.**, see Zeng, X., *JIoT June 15, 2021 10131-10145*
- Wang, B.**, see Regani, S.D., *JIoT Sept. 1, 2021 13291-13305*
- Wang, B.**, see Wang, F., *JIoT Nov. 15, 2021 16623-16636*
- Wang, C.**, Wu, C., Sheng, J., Ai, B., and Wang, Y., Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking; *JIoT March 15, 2021 4788-4801*
- Wang, C.**, see Huang, J., *JIoT April 1, 2021 5531-5543*
- Wang, C.**, see Zhang, C., *JIoT April 15, 2021 6624-6636*
- Wang, C.**, see Shi, S., *JIoT April 15, 2021 6498-6518*
- Wang, C.**, Lu, J., Ding, X., Jiang, C., Yang, J., and Shen, J., Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean; *JIoT June 1, 2021 9317-9329*
- Wang, C.**, see Wei, T., *JIoT June 1, 2021 8910-8934*
- Wang, C.**, see Chang, H., *JIoT June 15, 2021 9865-9877*
- Wang, C.**, see Luo, H., *JIoT July 1, 2021 10884-10895*
- Wang, C.**, Liu, L., Ma, H., and Xia, D., A Joint Optimization Scheme for Hybrid MAC Layer in LEO Satellite Supported IoT; *JIoT Aug. 1, 2021 11822-11833*
- Wang, C.**, see Peng, K., *JIoT Aug. 1, 2021 12004-12020*
- Wang, C.**, Li, Z., Zheng, T., Chen, H., and Xia, X., Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint; *JIoT Aug. 15, 2021 13024-13038*
- Wang, C.**, Huang, R., Shen, J., Liu, J., Vijayakumar, P., and Kumar, N., A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs; *JIoT Sept. 15, 2021 14248-14257*
- Wang, C.**, see Fang, X., *JIoT Sept. 15, 2021 14399-14417*
- Wang, C.**, see Zhang, B., *JIoT Oct. 15, 2021 15140-15147*
- Wang, C.**, Li, R., Di, Z., Qiu, C., and Wang, X., Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing; *JIoT Dec. 1, 2021 16911-16920*
- Wang, D.**, and Zhang, X., Secure Ride-Sharing Services Based on a Consortium Blockchain; *JIoT Feb. 15, 2021 2976-2991*
- Wang, D.**, Qi, P., Fu, Q., Zhang, N., and Li, Z., Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks; *JIoT June 1, 2021 9330-9343*
- Wang, D.**, Zhao, N., Song, B., Lin, P., and Yu, F.R., Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems; *JIoT June 1, 2021 9294-9304*
- Wang, D.**, see Lin, P., *JIoT Nov. 1, 2021 15749-15761*
- Wang, D.**, see Chen, D., *JIoT Nov. 15, 2021 16301-16312*
- Wang, D.**, Yang, J., Cui, W., Xie, L., and Sun, S., Multimodal CSI-Based Human Activity Recognition Using GANs; *JIoT Dec. 15, 2021 17345-17355*
- Wang, E.**, see Madhukumar, N., *JIoT May 1, 2021 7270-7278*
- Wang, F.**, Zhang, F., Wu, C., Wang, B., and Liu, K.J.R., ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio; *JIoT Feb. 1, 2021 1294-1307*
- Wang, F.**, Zhu, M., Wang, M., Khosravi, M.R., Ni, Q., Yu, S., and Qi, L., 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing; *JIoT April 1, 2021 5321-5331*
- Wang, F.**, see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*

- Wang, F., Zeng, X., Wu, C., Wang, B., and Liu, K.J.R., mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio ; *JIoT Nov. 15, 2021 16623-16636*
- Wang, G., see Xiong, M., *JIoT Feb. 15, 2021 2875-2885*
- Wang, G., see Li, Y., *JIoT March 15, 2021 4514-4525*
- Wang, G., see Sun, R., *JIoT April 15, 2021 7065-7078*
- Wang, G., see Wang, J., *JIoT Oct. 15, 2021 15126-15139*
- Wang, H., see Wang, J., *JIoT Jan. 1, 2021 458-473*
- Wang, H., see Han, G., *JIoT Jan. 15, 2021 684-694*
- Wang, H., see Yang, M., *JIoT Feb. 1, 2021 1572-1584*
- Wang, H., see Li, X., *JIoT Feb. 1, 2021 1728-1739*
- Wang, H., see Li, C., *JIoT Feb. 15, 2021 2802-2813*
- Wang, H., see Miao, Y., *JIoT Feb. 15, 2021 2289-2299*
- Wang, H., see Shen, M., *JIoT Feb. 15, 2021 2265-2275*
- Wang, H., see Wu, Y., *JIoT Feb. 15, 2021 2300-2317*
- Wang, H., see Chakraborty, N., *JIoT March 1, 2021 3255-3267*
- Wang, H., see Xu, L., *JIoT March 1, 2021 3524-3533*
- Wang, H., Huang, M., Zhao, Z., Guo, Z., Wang, Z., and Li, M., Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment; *JIoT April 1, 2021 5230-5239*
- Wang, H., see Xiao, W., *JIoT April 15, 2021 6305-6312*
- Wang, H., see Hui, S., *JIoT May 1, 2021 7115-7125*
- Wang, H., see Liao, Z., *JIoT May 1, 2021 7575-7588*
- Wang, H., see Liu, Y., *JIoT May 15, 2021 8616-8631*
- Wang, H., see Li, T., *JIoT May 15, 2021 8387-8398*
- Wang, H., see Zheng, Y., *JIoT May 15, 2021 8399-8410*
- Wang, H., see Zhang, X., *JIoT May 15, 2021 8234-8245*
- Wang, H., see Zhang, A., *JIoT May 15, 2021 7874-7888*
- Wang, H., see Zhang, Q., *JIoT June 15, 2021 9995-10009*
- Wang, H., see Hu, H., *JIoT June 15, 2021 9539-9548*
- Wang, H., and Papojuwo, A.O., Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH; *JIoT July 1, 2021 10499-10508*
- Wang, H., see Yang, Q., *JIoT July 15, 2021 11463-11475*
- Wang, H., see Ge, X., *JIoT Aug. 15, 2021 12902-12918*
- Wang, H., see Yang, M., *JIoT Sept. 1, 2021 13690-13702*
- Wang, H., see Liu, Z., *JIoT Sept. 15, 2021 14322-14337*
- Wang, H., Zhang, W., He, H., Liu, P., Luo, D.X., Liu, Y., Jiang, J., Li, Y., Zhang, X., Liu, W., Zhang, R., and Lan, X., An Evolutionary Study of IoT Malware ; *JIoT Oct. 15, 2021 15422-15440*
- Wang, H., see Zhao, Y., *JIoT Dec. 1, 2021 16933-16945*
- Wang, H., see Chen, M., *JIoT Dec. 1, 2021 16718-16722*
- Wang, H., see Qin, Z., *JIoT Dec. 15, 2021 17290-17307*
- Wang, J., Wu, L., Wang, H., Choo, K.R., and He, D., An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things; *JIoT Jan. 1, 2021 458-473*
- Wang, J., see Chen, D., *JIoT Jan. 15, 2021 813-828*
- Wang, J., Hao, S., Wen, R., Zhang, B., Zhang, L., Hu, H., and Lu, R., IoT-Practor: Undesired Behaviors Detection for IoT Devices ; *JIoT Jan. 15, 2021 927-940*
- Wang, J., see Zhang, J., *JIoT Jan. 15, 2021 1140-1153*
- Wang, J., and Li, S., ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks; *JIoT Feb. 1, 2021 2078-2079*
- Wang, J., see Bai, T., *JIoT Feb. 1, 2021 1623-1635*
- Wang, J., Liu, M., Sun, J., Gui, G., Gacanan, H., Sari, H., and Adachi, F., Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Nonorthogonal Multiple Access Schemes ; *JIoT Feb. 1, 2021 1883-1895*
- Wang, J., see Qi, H., *JIoT Feb. 15, 2021 2124-2134*
- Wang, J., see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Wang, J., see Zhang, W., *JIoT Feb. 15, 2021 2354-2363*
- Wang, J., see Feng, J., *JIoT Feb. 15, 2021 2087-2101*
- Wang, J., see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Wang, J., see Zhuang, Z., *JIoT Feb. 15, 2021 2208-2225*
- Wang, J., Feng, D., Zhang, S., Liu, A., and Xia, X., Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI; *JIoT March 1, 2021 3462-3475*
- Wang, J., see Li, L., *JIoT March 15, 2021 4317-4328*
- Wang, J., see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Wang, J., see Liao, Z., *JIoT April 1, 2021 5298-5308*
- Wang, J., see Liao, Z., *JIoT April 1, 2021 5298-5308*
- Wang, J., see Bai, W., *JIoT April 15, 2021 6865-6877*
- Wang, J., see Fu, J., *JIoT June 15, 2021 9672-9682*
- Wang, J., see Yang, L., *JIoT June 15, 2021 9717-9729*
- Wang, J., see Liao, Z., *JIoT July 1, 2021 10940-10952*
- Wang, J., see Liao, Z., *JIoT July 1, 2021 10940-10952*
- Wang, J., see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Wang, J., see Lin, Z., *JIoT July 15, 2021 11123-11134*
- Wang, J., see Liu, Y., *JIoT Aug. 15, 2021 12999-13013*
- Wang, J., see Xu, L., *JIoT Sept. 1, 2021 13355-13366*
- Wang, J., see Zhang, L., *JIoT Oct. 1, 2021 14731-14745*
- Wang, J., see Fang, Z., *JIoT Oct. 1, 2021 14559-14571*
- Wang, J., see Han, R., *JIoT Oct. 1, 2021 14447-14457*
- Wang, J., see Chen, J., *JIoT Oct. 15, 2021 15191-15204*
- Wang, J., see Wu, F., *JIoT Oct. 15, 2021 15216-15227*
- Wang, J., Na, Z., and Liu, X., Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things; *JIoT Oct. 15, 2021 15096-15106*
- Wang, J., see Zhong, Y., *JIoT Oct. 15, 2021 15148-15159*
- Wang, J., Wang, G., Li, B., Yang, H., Hu, Y., and Schmeink, A., Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks; *JIoT Oct. 15, 2021 15126-15139*
- Wang, J., see Liu, Y., *JIoT Dec. 1, 2021 17227-17235*
- Wang, J., see Li, Q., *JIoT Dec. 1, 2021 16946-16962*
- Wang, K., see Shi, H., *JIoT Jan. 1, 2021 381-392*
- Wang, K., Yu, C., and Wang, L., DORA: A Destination-Oriented Routing Algorithm for Energy-Balanced Wireless Sensor Networks; *JIoT Feb. 1, 2021 2080-2081*
- Wang, K., Xu, P., Chen, C., Kumari, S., Shojafar, M., and Alazab, M., Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain; *JIoT April 1, 2021 5332-5339*
- Wang, K., see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Wang, K., Xiong, H., Zhang, J., Chen, H., Dou, D., and Xu, C., SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing; *JIoT Nov. 15, 2021 16666-16679*
- Wang, L., see Wang, K., *JIoT Feb. 1, 2021 2080-2081*
- Wang, L., see Akbar, A., *JIoT March 1, 2021 3057-3065*
- Wang, L., see Ibrar, M., *JIoT March 1, 2021 3130-3142*
- Wang, L., see Ma, L., *JIoT April 15, 2021 6757-6770*
- Wang, L., see Yu, C., *JIoT April 15, 2021 7103-7104*
- Wang, L., see Yu, C., *JIoT April 15, 2021 7101-7102*
- Wang, L., Zhang, Y., and Chen, S., Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services; *JIoT May 15, 2021 8097-8106*
- Wang, L., see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
- Wang, L., see Chen, D., *JIoT July 15, 2021 11415-11426*
- Wang, L., see Yu, B., *JIoT Sept. 15, 2021 13900-13913*
- Wang, L., see Wang, Z., *JIoT Sept. 15, 2021 14003-14012*
- Wang, L., see Han, L., *JIoT Sept. 15, 2021 13914-13925*
- Wang, L., see Min, R., *JIoT Oct. 15, 2021 15396-15406*
- Wang, L., see Xiong, H., *JIoT Nov. 1, 2021 16142-16152*
- Wang, L.L., see Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Wang, M., see Sun, X., *JIoT Jan. 1, 2021 528-540*
- Wang, M., Xiao, D., and Xiang, Y., Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things; *JIoT Feb. 1, 2021 1662-1673*
- Wang, M., see Xu, Y., *JIoT Feb. 15, 2021 2681-2693*
- Wang, M., see Yi, L., *JIoT March 1, 2021 3108-3119*
- Wang, M., see Li, Y., *JIoT March 15, 2021 4035-4062*
- Wang, M., see Wang, F., *JIoT April 1, 2021 5321-5331*
- Wang, M., see Hu, L., *JIoT July 15, 2021 11329-11344*
- Wang, M., see Yang, N., *JIoT Aug. 1, 2021 12119-12136*
- Wang, M., see Zhao, D., *JIoT Aug. 15, 2021 12855-12879*
- Wang, M., see Fang, T., *JIoT Sept. 15, 2021 14418-14430*
- Wang, M., see Jiang, H., *JIoT Oct. 1, 2021 14658-14671*

- Wang, M., see Yu, Q., *JIoT Nov. 15, 2021 16191-16194*
- Wang, M., see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Wang, M.M., see Zhang, F., *JIoT Jan. 15, 2021 778-790*
- Wang, M.M., see Zhang, F., *JIoT April 1, 2021 6101-6113*
- Wang, M.M., see Zhang, F., *JIoT Nov. 15, 2021 16522-16534*
- Wang, N., see Zhu, Z., *JIoT Feb. 1, 2021 1702-1715*
- Wang, N., see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Wang, N., see Guo, J., *JIoT July 15, 2021 11078-11087*
- Wang, N., see Alipour-Fanid, A., *JIoT Sept. 1, 2021 13278-13290*
- Wang, P., see Yu, F., *JIoT Feb. 1, 2021 1259-1271*
- Wang, P., Yu, R., Gao, N., Lin, C., and Liu, Y., Task-Driven Data Offloading for Fog-Enabled Urban IoT Services; *JIoT May 1, 2021 7562-7574*
- Wang, P., see Li, J., *JIoT June 15, 2021 10052-10070*
- Wang, P., see Zhu, R., *JIoT Aug. 1, 2021 12410-12421*
- Wang, P., Lin, C., Obaidat, M.S., Yu, Z., Wei, Z., and Zhang, Q., Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective; *JIoT Nov. 1, 2021 15863-15874*
- Wang, P., see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Wang, Q., Luo, H., Xiong, H., Men, A., Zhao, F., Xia, M., and Ou, C., Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration; *JIoT Feb. 1, 2021 2011-2026*
- Wang, Q., see Li, X., *JIoT April 1, 2021 5453-5467*
- Wang, Q., Li, J., Qi, Q., Zhou, P., and Wu, D.O., An Adaptive-Location-Based Routing Protocol for 3-D Underwater Acoustic Sensor Networks; *JIoT April 15, 2021 6853-6864*
- Wang, Q., see Yang, L., *JIoT May 15, 2021 8107-8118*
- Wang, Q., Zhao, J., Xu, S., and Wang, R., ReType: Your Breath Tells Your Mind! *JIoT June 1, 2021 9436-9449*
- Wang, Q., see Rao, W., *JIoT July 1, 2021 10608-10618*
- Wang, Q., see Peng, S., *JIoT July 1, 2021 10815-10829*
- Wang, Q., see Segura-Garcia, J., *JIoT Aug. 1, 2021 12467-12475*
- Wang, Q., see Li, B., *JIoT Oct. 1, 2021 14485-14500*
- Wang, Q., Guo, Y., Yu, L., Chen, X., and Li, P., Deep Q-Network-Based Feature Selection for Multisourced Data Cleaning; *JIoT Nov. 1, 2021 16153-16164*
- Wang, Q., Guo, Y., Ji, T., Wang, X., Hu, B., and Li, P., Toward Combatting COVID-19: A Risk Assessment System; *JIoT Nov. 1, 2021 15953-15964*
- Wang, Q., see Hu, H., *JIoT Dec. 15, 2021 17541-17556*
- Wang, R., see Ji, J., *JIoT Feb. 1, 2021 1557-1571*
- Wang, R., see Wu, D., *JIoT March 15, 2021 4579-4589*
- Wang, R., Kan, Z., Cui, Y., Wu, D., and Zhen, Y., Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles; *JIoT June 1, 2021 8964-8975*
- Wang, R., see Wang, Q., *JIoT June 1, 2021 9436-9449*
- Wang, R., see Zhang, H., *JIoT July 1, 2021 10779-10791*
- Wang, R., see Ma, R., *JIoT Sept. 1, 2021 13222-13236*
- Wang, R., see Zhang, T., *JIoT Oct. 15, 2021 15334-15348*
- Wang, R., Yang, B.X., Ma, Y., Wang, P., Yu, Q., Zong, X., Huang, Z., Ma, S., Hu, L., Hwang, K., and Liu, Z., Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model; *JIoT Dec. 1, 2021 16825-16834*
- Wang, S., Che, Y., Zhao, H., and Lim, A., Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment; *JIoT Jan. 1, 2021 572-584*
- Wang, S., Chen, M., Liu, X., Yin, C., Cui, S., and Vincent Poor, H., A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks; *JIoT Feb. 1, 2021 1358-1372*
- Wang, S., see Liu, D., *JIoT Feb. 15, 2021 2959-2975*
- Wang, S., see Xu, X., *JIoT Feb. 15, 2021 2431-2443*
- Wang, S., see Sheng, H., *JIoT Feb. 15, 2021 2193-2207*
- Wang, S., see He, X., *JIoT Feb. 15, 2021 2722-2735*
- Wang, S., see Gao, Z., *JIoT March 1, 2021 3422-3437*
- Wang, S., see Yang, W., *JIoT March 15, 2021 5000-5008*
- Wang, S., see Li, D., *JIoT May 15, 2021 8603-8615*
- Wang, S., see Luo, W., *JIoT May 15, 2021 7833-7848*
- Wang, S., see Yuan, Y., *JIoT Aug. 15, 2021 12734-12747*
- Wang, S., see Ma, X., *JIoT Aug. 15, 2021 13115-13125*
- Wang, S., see Liu, H., *JIoT Oct. 1, 2021 14458-14470*
- Wang, S., see Zhang, T., *JIoT Oct. 15, 2021 15334-15348*
- Wang, S., see Li, B., *JIoT Oct. 15, 2021 15303-15316*
- Wang, S., see Zhang, Z., *JIoT Oct. 15, 2021 15259-15266*
- Wang, S., see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Wang, S., see Li, Y., *JIoT Nov. 15, 2021 16370-16378*
- Wang, S., see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Wang, S., Chen, M., Yin, C., Saad, W., Hong, C.S., Cui, S., and Poor, H.V., Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks; *JIoT Dec. 15, 2021 17460-17475*
- Wang, T., Shen, Y., Gao, L., Jiang, Y., Ma, T., and Zhu, X., Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks; *JIoT March 1, 2021 3369-3383*
- Wang, T., Yang, F., Pan, C., Song, J., and Han, Z., Index-Domain Division Multiple Access for IoT Applications; *JIoT June 1, 2021 9014-9029*
- Wang, T., see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Wang, T., see Jia, R., *JIoT Sept. 15, 2021 14299-14307*
- Wang, T., see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Wang, W., see Huang, X., *JIoT Jan. 1, 2021 610-625*
- Wang, W., see Zhang, W., *JIoT Feb. 1, 2021 1406-1416*
- Wang, W., see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Wang, W., see Huang, C., *JIoT March 1, 2021 3331-3345*
- Wang, W., see Huang, C., *JIoT March 15, 2021 4291-4304*
- Wang, W., Liu, F., Zhi, X., Zhang, T., and Huang, C., An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things; *JIoT April 1, 2021 5274-5284*
- Wang, W., see Hu, H., *JIoT June 15, 2021 9539-9548*
- Wang, W., see Han, C., *JIoT Sept. 1, 2021 13555-13566*
- Wang, W., see Li, M., *JIoT Sept. 15, 2021 13991-14002*
- Wang, W., see Liu, Z., *JIoT Sept. 15, 2021 14322-14337*
- Wang, W., see Shi, W., *JIoT Oct. 1, 2021 14572-14588*
- Wang, W., see Zhang, M., *JIoT Oct. 15, 2021 15240-15248*
- Wang, X., and Ashikhmin, A., Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT; *JIoT Jan. 1, 2021 332-344*
- Wang, X., see Wang, X., *JIoT Jan. 1, 2021 332-344*
- Wang, X., see Luo, X., *JIoT Jan. 15, 2021 657-671*
- Wang, X., see Zhong, S., *JIoT Feb. 1, 2021 1769-1782*
- Wang, X., see Leung, V.C.M., *JIoT Feb. 15, 2021 2082-2086*
- Wang, X., see Yi, Y., *JIoT Feb. 15, 2021 2177-2192*
- Wang, X., see Gao, P., *JIoT March 1, 2021 3287-3299*
- Wang, X., see Xiao, Z., *JIoT March 1, 2021 3812-3821*
- Wang, X., and Mao, S., Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach; *JIoT March 15, 2021 4498-4513*
- Wang, X., see Wang, X., *JIoT March 15, 2021 4498-4513*
- Wang, X., see Jia, P., *JIoT March 15, 2021 4548-4559*
- Wang, X., see Jia, R., *JIoT March 15, 2021 4697-4710*
- Wang, X., see Bai, W., *JIoT April 15, 2021 6865-6877*
- Wang, X., see Zhou, R., *JIoT April 15, 2021 6425-6436*
- Wang, X., see Hui, S., *JIoT May 1, 2021 7115-7125*
- Wang, X., see Liu, J., *JIoT May 1, 2021 7546-7561*
- Wang, X., see Li, D., *JIoT May 15, 2021 8603-8615*
- Wang, X., Chen, C., He, J., Zhu, S., and Guan, X., AoI-Aware Control and Communication Co-Design for Industrial IoT Systems; *JIoT May 15, 2021 8464-8473*
- Wang, X., see Zhong, X., *JIoT May 15, 2021 8191-8209*
- Wang, X., see Xue, Z., *JIoT June 1, 2021 9122-9138*
- Wang, X., see Hawbani, A., *JIoT June 1, 2021 8976-8989*
- Wang, X., see Chen, K., *JIoT June 15, 2021 10103-10116*
- Wang, X., see Han, J., *JIoT June 15, 2021 9683-9696*
- Wang, X., see Zhao, Y., *JIoT June 15, 2021 10018-10033*
- Wang, X., see Xu, X., *JIoT July 1, 2021 10596-10607*
- Wang, X., Garg, S., Lin, H., Kaddoum, G., Hu, J., and Hossain, M.S., PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT; *JIoT July 1, 2021 10288-10298*
- Wang, X., see Guo, J., *JIoT July 15, 2021 11078-11087*
- Wang, X., see Qiu, C., *JIoT Aug. 15, 2021 12694-12704*
- Wang, X., see Ren, L., *JIoT Aug. 15, 2021 12578-12587*
- Wang, X., see Zhang, M., *JIoT Sept. 1, 2021 13608-13623*

- Wang, X., see Jia, P., *JIoT Sept. 15, 2021 14028-14038*
- Wang, X., see Liang, Q., *JIoT Oct. 15, 2021 15037-15040*
- Wang, X., see Min, R., *JIoT Oct. 15, 2021 15396-15406*
- Wang, X., see Kong, X., *JIoT Nov. 1, 2021 15929-15938*
- Wang, X., see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Wang, X., see Wang, Q., *JIoT Nov. 1, 2021 15953-15964*
- Wang, X., see Lin, H., *JIoT Nov. 1, 2021 15683-15693*
- Wang, X., see Duan, S., *JIoT Dec. 1, 2021 17147-17160*
- Wang, X., see Wang, C., *JIoT Dec. 1, 2021 16911-16920*
- Wang, X., Ma, J., Miao, Y., Liu, X., Zhu, D., and Deng, R.H., Fast and Secure Location-Based Services in Smart Cities on Outsourced Data; *JIoT Dec. 15, 2021 17639-17654*
- Wang, Y., see Pu, Z., *JIoT Jan. 1, 2021 474-486*
- Wang, Y., see Lai, W., *JIoT Jan. 15, 2021 1016-1029*
- Wang, Y., see Yang, S., *JIoT Jan. 15, 2021 1095-1108*
- Wang, Y., see Qi, H., *JIoT Feb. 15, 2021 2124-2134*
- Wang, Y., see He, Y., *JIoT Feb. 15, 2021 2226-2237*
- Wang, Y., see Cai, L., *JIoT Feb. 15, 2021 3014-3026*
- Wang, Y., see Feng, J., *JIoT Feb. 15, 2021 2087-2101*
- Wang, Y., Sun, G., Yang, G., and Ding, X., XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks; *JIoT March 1, 2021 3446-3461*
- Wang, Y., see Wang, C., *JIoT March 15, 2021 4788-4801*
- Wang, Y., see Liao, H., *JIoT April 1, 2021 5250-5263*
- Wang, Y., see Zhang, J., *JIoT April 15, 2021 6205-6213*
- Wang, Y., see Liu, Y., *JIoT May 15, 2021 8616-8631*
- Wang, Y., see Xu, P., *JIoT May 15, 2021 8145-8158*
- Wang, Y., see Jiang, H., *JIoT June 1, 2021 9450-9459*
- Wang, Y., see Chen, K., *JIoT June 15, 2021 10103-10116*
- Wang, Y., see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Wang, Y., Yang, S., Li, F., and Wu, Y., FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices; *JIoT Aug. 1, 2021 12455-12466*
- Wang, Y., see Wang, Y., *JIoT Aug. 1, 2021 12455-12466*
- Wang, Y., see Liu, Y., *JIoT Aug. 15, 2021 12999-13013*
- Wang, Y., Yang, K., Wan, W., Zhang, Y., and Liu, Q., Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting; *JIoT Sept. 1, 2021 13640-13651*
- Wang, Y., see Karimi, M., *JIoT Sept. 1, 2021 13328-13342*
- Wang, Y., Cao, J., and Zheng, Y., Toward a Low-Cost Software-Defined UHF RFID System for Distributed Parallel Sensing; *JIoT Sept. 1, 2021 13664-13676*
- Wang, Y., see Yu, B., *JIoT Sept. 15, 2021 13900-13913*
- Wang, Y., Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems; *JIoT Oct. 1, 2021 14934-14947*
- Wang, Y., Hu, M., Yang, C., Li, N., Zhang, J., Li, Q., Zhai, G., Yang, S.X., Zhang, X., and Yang, X., Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System; *JIoT Oct. 1, 2021 14999-15009*
- Wang, Y., see Zhou, M., *JIoT Oct. 15, 2021 15117-15125*
- Wang, Y., see Zhang, L., *JIoT Dec. 1, 2021 17120-17130*
- Wang, Z., see Zhu, Z., *JIoT Feb. 1, 2021 1702-1715*
- Wang, Z., Shi, Y., Zhou, Y., Zhou, H., and Zhang, N., Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks; *JIoT Feb. 1, 2021 1585-1598*
- Wang, Z., see Zhang, J., *JIoT Feb. 15, 2021 2992-2999*
- Wang, Z., see Huang, C., *JIoT March 15, 2021 4291-4304*
- Wang, Z., see Fan, Q., *JIoT April 1, 2021 5518-5530*
- Wang, Z., see Wang, H., *JIoT April 1, 2021 5230-5239*
- Wang, Z., see Yang, J., *JIoT April 15, 2021 6416-6424*
- Wang, Z., Xue, G., Qian, S., and Li, M., CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications; *JIoT April 15, 2021 6733-6745*
- Wang, Z., see Hui, S., *JIoT May 1, 2021 7115-7125*
- Wang, Z., see Chen, C., *JIoT May 1, 2021 7531-7545*
- Wang, Z., see Song, C., *JIoT May 1, 2021 7510-7520*
- Wang, Z., see Wu, L., *JIoT Aug. 1, 2021 12339-12349*
- Wang, Z., see Li, Z., *JIoT Aug. 1, 2021 12289-12310*
- Wang, Z., see Luo, J., *JIoT Sept. 1, 2021 13126-13144*
- Wang, Z., Yue, S., and Song, C., Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network; *JIoT Sept. 15, 2021 14372-14384*
- Wang, Z., Lin, Z., Lv, T., and Ni, W., Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach; *JIoT Sept. 15, 2021 14232-14247*
- Wang, Z., Wang, L., Huang, C., Zhang, Z., and Luo, X., Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm; *JIoT Sept. 15, 2021 14003-14012*
- Wang, Z., see Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
- Wang, Z., see Jiang, J., *JIoT Oct. 15, 2021 15284-15291*
- Wang, Z., see Zhan, C., *JIoT Oct. 15, 2021 15553-15567*
- Wang, Z., see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Wang, Z., see Liu, Q., *JIoT Dec. 1, 2021 17014-17028*
- Wang, Z.J., see Guo, H., *JIoT March 15, 2021 4329-4338*
- Watanabe, Y., see Tao, L., *JIoT July 15, 2021 11548-11560*
- Watteyne, T., see Chang, T., *JIoT Feb. 1, 2021 1846-1858*
- Watteyne, T., see Oroza, C.A., *JIoT Dec. 15, 2021 17429-17435*
- Wazid, M., see Srinivas, J., *JIoT May 1, 2021 7727-7744*
- Wedyan, M., see Sun, J., *JIoT Nov. 1, 2021 15663-15671*
- Wei, B., see Zhang, J., *JIoT March 15, 2021 4628-4641*
- Wei, B., see Zhang, J., *JIoT May 1, 2021 7610-7624*
- Wei, D., see Ning, W., *JIoT Aug. 15, 2021 12550-12558*
- Wei, D.S.L., see Xue, K., *JIoT March 15, 2021 4305-4316*
- Wei, F., Vijayakumar, P., Kumar, N., Zhang, R., and Cheng, Q., Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things; *JIoT April 1, 2021 5599-5606*
- Wei, G., see Guan, Y., *JIoT Sept. 15, 2021 14219-14231*
- Wei, G., see Guan, Y., *JIoT Nov. 15, 2021 16243-16255*
- Wei, J., Li, J., Lin, Y., and Zhang, J., LDP-Based Social Content Protection for Trending Topic Recommendation; *JIoT March 15, 2021 4353-4372*
- Wei, J., see Wu, Y., *JIoT June 15, 2021 9740-9752*
- Wei, K., see Ma, C., *JIoT Dec. 15, 2021 17308-17319*
- Wei, L., Wu, J., Long, C., and Li, B., On Designing Context-Aware Trust Model and Service Delegation for Social Internet of Things; *JIoT March 15, 2021 4775-4787*
- Wei, T., Feng, W., Chen, Y., Wang, C., Ge, N., and Lu, J., Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges; *JIoT June 1, 2021 8910-8934*
- Wei, T., see Fang, X., *JIoT Sept. 15, 2021 14399-14417*
- Wei, W., see Qi, S., *JIoT Feb. 15, 2021 2886-2899*
- Wei, W., see Zheng, D., *JIoT May 1, 2021 7140-7151*
- Wei, W., see Han, J., *JIoT June 15, 2021 9683-9696*
- Wei, Y., see Liu, M., *JIoT June 1, 2021 8990-9004*
- Wei, Z., see Chen, X., *JIoT Aug. 1, 2021 12093-12105*
- Wei, Z., see Wang, P., *JIoT Nov. 1, 2021 15863-15874*
- Wei, Z., see Qin, Z., *JIoT Dec. 15, 2021 17290-17307*
- Wen, C., see Guo, F., *JIoT Oct. 1, 2021 15024-15036*
- Wen, G., see Li, G., *JIoT June 1, 2021 9244-9256*
- Wen, H., see Hou, W., *JIoT Nov. 15, 2021 16256-16268*
- Wen, M., see Liu, D., *JIoT Feb. 15, 2021 2959-2975*
- Wen, M., see Pei, X., *JIoT April 1, 2021 5240-5249*
- Wen, M., see Duan, W., *JIoT April 15, 2021 6154-6166*
- Wen, M., see Zhang, T., *JIoT Oct. 15, 2021 15334-15348*
- Wen, M., see Chen, X., *JIoT Nov. 1, 2021 15939-15952*
- Wen, M., see Tang, Y., *JIoT Nov. 1, 2021 16023-16034*
- Wen, P., Li, Y., Chen, S., and Zhao, S., Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources; *JIoT June 1, 2021 9045-9058*
- Wen, Q., see Zhan, C., *JIoT Nov. 1, 2021 15906-15918*
- Wen, R., see Wang, J., *JIoT Jan. 15, 2021 927-940*
- Wen, S., see Xue, Z., *JIoT June 1, 2021 9122-9138*
- Wen, T., see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Wen, X., see Chen, Y., *JIoT Jan. 1, 2021 85-111*
- Wen, Y., see Yang, S., *JIoT April 1, 2021 5607-5618*

- Wen, Y., *see* Zhang, W., *JIoT May 15, 2021 8021-8031*
- Wen, Y., *see* Li, J., *JIoT July 15, 2021 11150-11162*
- Wen, Y., *see* Yang, S., *JIoT Dec. 15, 2021 17320-17332*
- Wen, Z., *see* Liu, D., *JIoT Feb. 15, 2021 2959-2975*
- Weng, J., *see* Liu, Z., *JIoT April 1, 2021 5386-5407*
- Weng, J., *see* Yang, A., *JIoT July 15, 2021 11607-11620*
- Wheeler, B., *see* Chang, T., *JIoT Feb. 1, 2021 1846-1858*
- Wickramasinghe, S., *see* Banavar, M.K., *JIoT Dec. 1, 2021 17111-17119*
- Willander, M., *see* Manjakkal, L., *JIoT Sept. 15, 2021 13805-13824*
- Wills, P.S., *see* Ouyang, B., *JIoT Sept. 15, 2021 14013-14027*
- Wisultschew, C., *see* Marino, R., *JIoT March 15, 2021 4339-4352*
- Witthauer, L., *see* Cascales, J.P., *JIoT Dec. 15, 2021 17557-17567*
- Wolter, K., *see* Wu, H., *JIoT Feb. 15, 2021 2163-2176*
- Wolter, K., *see* Peng, G., *JIoT Sept. 1, 2021 13723-13736*
- Wong, C., *see* Zhu, Q., *JIoT Dec. 1, 2021 16734-16748*
- Wong, D.C., *see* Akleyek, S., *JIoT April 15, 2021 6983-6994*
- Wong, E., *see* Ruan, L., *JIoT Jan. 1, 2021 626-635*
- Wong, H., *see* Xiao, B., *JIoT Dec. 15, 2021 17724-17733*
- Wong, K., *see* Letafati, M., *JIoT March 15, 2021 4373-4388*
- Wong, K., *see* Li, Y., *JIoT April 15, 2021 6878-6892*
- Wong, W., *see* Zhao, Y., *JIoT Jan. 1, 2021 393-406*
- Woo, J., *see* Yun, J., *JIoT May 1, 2021 7380-7393*
- Woods, C., *see* Firouzi, F., *JIoT Aug. 15, 2021 12826-12846*
- Woon, P.Y., *see* Khor, J.H., *JIoT Aug. 1, 2021 11960-11982*
- Wozniak, M., Zielonka, A., Sikora, A., Piran, M.J., and Alamri, A., 6G-Enabled IoT Home Environment Control Using Fuzzy Rules; *JIoT April 1, 2021 5442-5452*
- Wright, P.K., *see* Evans, J.W., *JIoT June 15, 2021 10047-10051*
- Wu, B., *see* Liu, L., *JIoT April 15, 2021 6469-6486*
- Wu, C., *see* Wang, F., *JIoT Feb. 1, 2021 1294-1307*
- Wu, C., *see* Fang, L., *JIoT Feb. 15, 2021 2603-2614*
- Wu, C., *see* Wang, C., *JIoT March 15, 2021 4788-4801*
- Wu, C., *see* Yin, R., *JIoT April 15, 2021 6720-6732*
- Wu, C., *see* Zhang, F., *JIoT April 15, 2021 6995-7008*
- Wu, C., Pan, W., Sun, G., Liu, J., and Wu, L., Learning Tracking Control for Cyber-Physical Systems; *JIoT June 1, 2021 9151-9163*
- Wu, C., *see* Shen, L., *JIoT July 15, 2021 11368-11383*
- Wu, C., *see* Regani, S.D., *JIoT Sept. 1, 2021 13291-13305*
- Wu, C., *see* Wang, F., *JIoT Nov. 15, 2021 16623-16636*
- Wu, D., *see* Yu, S., *JIoT Feb. 15, 2021 2238-2251*
- Wu, D., Yang, Z., Yang, B., Wang, R., and Zhang, P., From Centralized Management to Edge Collaboration: A Privacy-Preserving Task Assignment Framework for Mobile Crowdsensing; *JIoT March 15, 2021 4579-4589*
- Wu, D., and Ansari, N., A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System; *JIoT April 1, 2021 5510-5517*
- Wu, D., Zhou, L., and Lu, P., Win-Win-Driven D2D Content Sharing; *JIoT May 1, 2021 7346-7359*
- Wu, D., *see* Wang, R., *JIoT June 1, 2021 8964-8975*
- Wu, D., *see* Yu, Y., *JIoT June 1, 2021 9359-9372*
- Wu, D., *see* Cai, X., *JIoT June 15, 2021 9645-9653*
- Wu, D., *see* Omwenga, M.M., *JIoT July 15, 2021 11594-11606*
- Wu, D., *see* Yang, P., *JIoT Sept. 15, 2021 14258-14275*
- Wu, D., *see* Fang, T., *JIoT Sept. 15, 2021 14418-14430*
- Wu, D., *see* Xiao, B., *JIoT Dec. 15, 2021 17724-17733*
- Wu, D.O., *see* Bi, X., *JIoT Feb. 1, 2021 1282-1293*
- Wu, D.O., *see* Wang, Q., *JIoT April 15, 2021 6853-6864*
- Wu, F., *see* Zhang, J., *JIoT March 15, 2021 4628-4641*
- Wu, F., *see* Zhang, J., *JIoT May 1, 2021 7610-7624*
- Wu, F., Qiu, C., Wu, T., and Yuce, M.R., Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications; *JIoT June 15, 2021 9970-9980*
- Wu, F., Xu, T., Guo, J., Huang, B., Xu, C., Wang, J., and Li, X., Deep Siamese Cross-Residual Learning for Robust Visual Tracking; *JIoT Oct. 15, 2021 15216-15227*
- Wu, F., *see* Chen, W., *JIoT Nov. 15, 2021 16510-16521*
- Wu, F., *see* Fan, W., *JIoT Dec. 15, 2021 17691-17704*
- Wu, G., *see* Ding, Y., *JIoT Feb. 1, 2021 1504-1518*
- Wu, G., *see* Liu, J., *JIoT March 15, 2021 4389-4402*
- Wu, G., *see* Huang, F., *JIoT April 15, 2021 6197-6204*
- Wu, H., Wolter, K., Jiao, P., Deng, Y., Zhao, Y., and Xu, M., EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing; *JIoT Feb. 15, 2021 2163-2176*
- Wu, H., *see* Cho, H., *JIoT Feb. 15, 2021 2379-2394*
- Wu, H., *see* Razian, M., *JIoT March 1, 2021 3665-3677*
- Wu, H., *see* Yi, L., *JIoT March 1, 2021 3108-3119*
- Wu, H., *see* Shi, W., *JIoT June 15, 2021 9800-9813*
- Wu, H., *see* Zhang, Q., *JIoT July 1, 2021 10412-10429*
- Wu, H., Yan, Y., Sun, D., and Liu, P., Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT; *JIoT July 15, 2021 11514-11525*
- Wu, H., *see* Wu, H., *JIoT July 15, 2021 11514-11525*
- Wu, H., *see* Naouri, A., *JIoT Aug. 15, 2021 13065-13076*
- Wu, H., *see* Peng, G., *JIoT Sept. 1, 2021 13723-13736*
- Wu, H., *see* Peng, G., *JIoT Sept. 1, 2021 13723-13736*
- Wu, H., *see* Zhao, Y., *JIoT Sept. 1, 2021 13750-13762*
- Wu, H., Zhang, J., Cai, Z., Ni, Q., Zhou, T., Yu, J., Chen, H., and Liu, F., Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game; *JIoT Dec. 1, 2021 16972-16983*
- Wu, J., *see* Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Wu, J., *see* Wei, L., *JIoT March 15, 2021 4775-4787*
- Wu, J., *see* Jia, R., *JIoT March 15, 2021 4697-4710*
- Wu, J., *see* Zhao, Y., *JIoT April 1, 2021 5619-5631*
- Wu, J., *see* Liao, S., *JIoT April 1, 2021 5172-5184*
- Wu, J., *see* Jiang, H., *JIoT April 15, 2021 6167-6177*
- Wu, J., *see* Chen, X., *JIoT May 1, 2021 7466-7475*
- Wu, J., *see* Feng, J., *JIoT June 1, 2021 9407-9421*
- Wu, J., *see* Chen, L., *JIoT Aug. 15, 2021 12610-12622*
- Wu, J., *see* Yang, Y., *JIoT Aug. 15, 2021 12490-12504*
- Wu, J., *see* Li, M., *JIoT Sept. 15, 2021 13991-14002*
- Wu, J., *see* Liu, L., *JIoT Oct. 1, 2021 14948-14958*
- Wu, J., *see* Li, G., *JIoT Nov. 15, 2021 16440-16451*
- Wu, J., *see* Xu, H., *JIoT Nov. 15, 2021 16337-16348*
- Wu, K., *see* Zhang, J., *JIoT Jan. 15, 2021 1140-1153*
- Wu, K., *see* Guo, W., *JIoT March 1, 2021 3576-3586*
- Wu, K., *see* Zhang, L., *JIoT May 1, 2021 7333-7345*
- Wu, K., *see* Gu, X., *JIoT Sept. 1, 2021 13209-13221*
- Wu, K., *see* Yu, J., *JIoT Nov. 15, 2021 16498-16509*
- Wu, L., *see* Wang, J., *JIoT Jan. 1, 2021 458-473*
- Wu, L., *see* Yang, W., *JIoT May 15, 2021 8632-8643*
- Wu, L., *see* Wu, C., *JIoT June 1, 2021 9151-9163*
- Wu, L., *see* Jiang, H., *JIoT June 15, 2021 9495-9510*
- Wu, L., Lin, X., Chen, Z., Huang, J., Liu, H., and Yang, Y., An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing; *JIoT July 15, 2021 11357-11367*
- Wu, L., *see* Liu, X., *JIoT July 15, 2021 11041-11051*
- Wu, L., Sun, P., Wang, Z., and Yang, Y., Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach; *JIoT Aug. 1, 2021 12339-12349*
- Wu, L., *see* Liu, Z., *JIoT Sept. 15, 2021 14322-14337*
- Wu, M., *see* Syu, J., *JIoT July 1, 2021 10347-10355*
- Wu, M., Ye, D., Ding, J., Guo, Y., Yu, R., and Pan, M., Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach; *JIoT July 1, 2021 10639-10651*
- Wu, M., *see* Regani, S.D., *JIoT Sept. 1, 2021 13291-13305*
- Wu, M., *see* Zhu, Q., *JIoT Dec. 1, 2021 16734-16748*
- Wu, Q., *see* You, W., *JIoT Jan. 15, 2021 695-707*
- Wu, Q., *see* Sun, M., *JIoT May 15, 2021 8005-8020*
- Wu, Q., *see* Pei, L., *JIoT June 1, 2021 9383-9396*
- Wu, Q., *see* Zhong, Y., *JIoT Oct. 15, 2021 15148-15159*
- Wu, Q., *see* Yang, F., *JIoT Nov. 1, 2021 15892-15905*
- Wu, S., Hung, P., and Swindlehurst, A.L., ECG Biometric Recognition: Unlinkability, Irreversibility, and Security; *JIoT Jan. 1, 2021 487-500*
- Wu, S., *see* Zhang, R., *JIoT Feb. 15, 2021 2517-2539*
- Wu, S., *see* Wu, Y., *JIoT March 15, 2021 4906-4919*
- Wu, S., *see* Fan, Q., *JIoT April 1, 2021 5518-5530*

- Wu, S., Gong, C., Zuo, C., Li, S., Zhang, J., Dai, Z., Yang, K., Zhao, M., Ni, R., Xu, Z., and Zhu, J., Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction ; *JIoT June 15, 2021 10085-10102*
- Wu, S., see Jiao, J., *JIoT Oct. 1, 2021 14773-14786*
- Wu, S., see Zhong, Y., *JIoT Oct. 15, 2021 15148-15159*
- Wu, S., see Jiao, J., *JIoT Dec. 15, 2021 17403-17416*
- Wu, T., see Fu, F., *JIoT Feb. 1, 2021 1308-1321*
- Wu, T., see Hou, L., *JIoT Feb. 15, 2021 2419-2430*
- Wu, T., see Wu, F., *JIoT June 15, 2021 9970-9980*
- Wu, T., see Qin, Z., *JIoT Dec. 15, 2021 17290-17307*
- Wu, W., see Guo, Z., *JIoT Jan. 1, 2021 512-527*
- Wu, W., see Guo, J., *JIoT Feb. 1, 2021 2040-2050*
- Wu, W., see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Wu, W., see Marques, J.A.L., *JIoT Dec. 1, 2021 16814-16824*
- Wu, X., see Fang, F., *JIoT March 15, 2021 3983-4003*
- Wu, X., see Yan, J., *JIoT Oct. 1, 2021 14623-14637*
- Wu, Y., see Liu, D., *JIoT Feb. 15, 2021 2959-2975*
- Wu, Y., see Fang, L., *JIoT Feb. 15, 2021 2603-2614*
- Wu, Y., see Qian, L.P., *JIoT Feb. 15, 2021 2150-2162*
- Wu, Y., Dai, H., and Wang, H., Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0; *JIoT Feb. 15, 2021 2300-2317*
- Wu, Y., Wu, S., and Hu, X., Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments; *JIoT March 15, 2021 4906-4919*
- Wu, Y., see Pei, X., *JIoT April 1, 2021 5240-5249*
- Wu, Y., see Chen, C., *JIoT April 1, 2021 5309-5320*
- Wu, Y., see Liu, Z., *JIoT April 1, 2021 5386-5407*
- Wu, Y., see Liu, L., *JIoT April 15, 2021 6677-6691*
- Wu, Y., see Liu, M., *JIoT June 1, 2021 8990-9004*
- Wu, Y., see Yu, Y., *JIoT June 1, 2021 9359-9372*
- Wu, Y., see Fu, S., *JIoT June 15, 2021 10209-10219*
- Wu, Y., Mendis, G.J., and Wei, J., DDLPF: A Practical Decentralized Deep Learning Paradigm for Internet-of-Things Applications; *JIoT June 15, 2021 9740-9752*
- Wu, Y., Robust Learning-Enabled Intelligence for the Internet of Things: A Survey From the Perspectives of Noisy Data and Adversarial Examples; *JIoT June 15, 2021 9568-9579*
- Wu, Y., see Wang, Y., *JIoT Aug. 1, 2021 12455-12466*
- Wu, Y., Cloud-Edge Orchestration for the Internet of Things: Architecture and AI-Powered Data Processing; *JIoT Aug. 15, 2021 12792-12805*
- Wu, Y., Zhang, K., and Zhang, Y., Digital Twin Networks: A Survey; *JIoT Sept. 15, 2021 13789-13804*
- Wu, Y., Yang, Q., Li, H., Kwak, K.S., and Leung, V.C.M., Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets; *JIoT Oct. 1, 2021 14920-14933*
- Wu, Z., see Yin, R., *JIoT April 15, 2021 6720-6732*
- Wu, Z., see Lin, M., *JIoT June 15, 2021 10187-10197*
- X**
- Xi, L., see Liu, Y., *JIoT May 1, 2021 7450-7465*
- Xi, W., Duan, M., Bai, X., Zhao, K., Mo, L., and Zhao, J., KEEP: Secure and Efficient Communication for Distributed IoT Devices; *JIoT Aug. 15, 2021 12758-12770*
- Xi, X., see Yang, P., *JIoT Sept. 15, 2021 14258-14275*
- Xi, Z., Liu, X., Luo, J., Zhang, S., and Guo, S., Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems; *JIoT Feb. 1, 2021 1651-1661*
- Xi, Z., see Liu, L., *JIoT Oct. 1, 2021 14948-14958*
- Xia, B., see Gu, Y., *JIoT Sept. 15, 2021 14051-14065*
- Xia, B., see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Xia, D., Zheng, L., Chen, L., Liu, W., and Sun, D., DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data; *JIoT July 15, 2021 11666-11677*
- Xia, D., see Wang, C., *JIoT Aug. 1, 2021 11822-11833*
- Xia, H., see Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Xia, M., see Wang, Q., *JIoT Feb. 1, 2021 2011-2026*
- Xia, Q., see Sifah, E.B., *JIoT Sept. 15, 2021 14141-14155*
- Xia, S., see Li, Y., *JIoT March 15, 2021 4514-4525*
- Xia, S., see Pei, L., *JIoT June 1, 2021 9383-9396*
- Xia, T., see Omwenga, M.M., *JIoT July 15, 2021 11594-11606*
- Xia, X., see Liu, Y., *JIoT Feb. 1, 2021 1322-1333*
- Xia, X., see Wang, J., *JIoT March 1, 2021 3462-3475*
- Xia, X., see Wang, C., *JIoT Aug. 15, 2021 13024-13038*
- Xia, X., Hashemi, E., Xiong, L., Khajepour, A., and Xu, N., Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis; *JIoT Oct. 1, 2021 14845-14859*
- Xia, Y., see Qin, X., *JIoT Oct. 1, 2021 14501-14513*
- Xiang, C., see Chen, C., *JIoT May 1, 2021 7531-7545*
- Xiang, C., He, S., Shin, K.G., Qu, Y., and Yang, P., Incentivizing Platform-User Interactions for Crowdsensing; *JIoT May 15, 2021 8314-8327*
- Xiang, T., see Chen, B., *JIoT Oct. 1, 2021 15010-15023*
- Xiang, W., see Madhukumar, N., *JIoT May 1, 2021 7270-7278*
- Xiang, W., see Lei, L., *JIoT May 15, 2021 7938-7953*
- Xiang, W., see Zhou, Y., *JIoT May 15, 2021 8173-8190*
- Xiang, Y., see Wang, M., *JIoT Feb. 1, 2021 1662-1673*
- Xiang, Y., see Saini, A., *JIoT April 1, 2021 5914-5925*
- Xiang, Y., see Karimi, M., *JIoT Sept. 1, 2021 13328-13342*
- Xiang, Z., Han, S., Peng, H., Pei, Y., and Liang, Y., A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol; *JIoT April 1, 2021 5697-5709*
- Xiao, B., see Hu, Q., *JIoT Aug. 15, 2021 12782-12791*
- Xiao, B., Wong, H., Wu, D., and Yeung, K.L., Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications; *JIoT Dec. 15, 2021 17724-17733*
- Xiao, C., Lei, Y., Ma, Y., Zhou, F., and Qin, Z., DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi; *JIoT April 1, 2021 5669-5681*
- Xiao, D., see Wang, M., *JIoT Feb. 1, 2021 1662-1673*
- Xiao, F., see Pei, L., *JIoT June 1, 2021 9383-9396*
- Xiao, G., see Luo, W., *JIoT Aug. 15, 2021 12650-12657*
- Xiao, G., Tu, G., Zheng, L., Zhou, T., Li, X., Ahmed, S.H., and Jiang, D., Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network ; *JIoT Aug. 15, 2021 12748-12757*
- Xiao, H., Zhang, W., Li, W., Chronopoulos, A.T., and Zhang, Z., Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks; *JIoT Sept. 15, 2021 13926-13938*
- Xiao, H., see Cai, H., *JIoT Nov. 1, 2021 15829-15838*
- Xiao, J., see Li, Y., *JIoT April 15, 2021 6337-6347*
- Xiao, J., see Niu, W., *JIoT June 15, 2021 9905-9919*
- Xiao, J., see Jin, H., *JIoT Nov. 1, 2021 15776-15784*
- Xiao, L., see Xiao, Y., *JIoT March 15, 2021 4560-4568*
- Xiao, M., see Yang, L., *JIoT Feb. 15, 2021 2330-2341*
- Xiao, M., see Chen, H., *JIoT April 1, 2021 5360-5373*
- Xiao, M., see Liu, Y., *JIoT Aug. 1, 2021 12231-12241*
- Xiao, P., see Zhen, L., *JIoT April 1, 2021 5114-5128*
- Xiao, P., see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
- Xiao, W., see Zhang, J., *JIoT Jan. 1, 2021 320-331*
- Xiao, W., see Zhang, J., *JIoT March 15, 2021 4749-4761*
- Xiao, W., Liu, C., Wang, H., Zhou, M., Hossain, M.S., Alrashoud, M., and Muhammad, G., Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City ; *JIoT April 15, 2021 6305-6312*
- Xiao, X., see Gao, R., *JIoT Aug. 15, 2021 12955-12967*
- Xiao, Y., Xiao, L., Lu, X., Zhang, H., Yu, S., and Poor, H.V., Deep-Reinforcement-Learning-Based User Profile Perturbation for Privacy-Aware Recommendation; *JIoT March 15, 2021 4560-4568*
- Xiao, Y., see Shi, S., *JIoT April 15, 2021 6498-6518*
- Xiao, Y., see Zhu, C., *JIoT May 1, 2021 7625-7637*
- Xiao, Z., see Liu, Y., *JIoT Feb. 1, 2021 1322-1333*

- Xiao, Z.**, Fang, H., and Wang, X., Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis; *JIoT March 1*, 2021 3812-3821
- Xiao, Z.**, He, D., and Du, J., A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market; *JIoT Aug. 15*, 2021 12658-12668
- Xiao, Z.**, see Chen, J., *JIoT Dec. 15*, 2021 17508-17524
- Xie, C.**, Yu, B., Zeng, Z., Yang, Y., and Liu, Q., Multilayer Internet-of-Things Middleware Based on Knowledge Graph; *JIoT Feb. 15*, 2021 2635-2648
- Xie, G.**, see Tang, X., *JIoT Sept. 1*, 2021 13737-13749
- Xie, H.**, see Yan, Y., *JIoT April 15*, 2021 6789-6799
- Xie, H.**, see Xu, Y., *JIoT Oct. 1*, 2021 14908-14919
- Xie, H.**, see Liu, H., *JIoT Dec. 1*, 2021 17100-17110
- Xie, J.**, see Gu, S., *JIoT Feb. 15*, 2021 2135-2149
- Xie, L.**, see Zhao, Y., *JIoT April 1*, 2021 5619-5631
- Xie, L.**, see Wan, G.C., *JIoT May 1*, 2021 7476-7484
- Xie, L.**, see Chen, X., *JIoT May 1*, 2021 7466-7475
- Xie, L.**, see Wang, D., *JIoT Dec. 15*, 2021 17345-17355
- Xie, R.**, Tang, Q., Liang, C., Yu, F.R., and Huang, T., Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach; *JIoT Jan. 1*, 2021 345-356
- Xie, S.**, see Li, Z., *JIoT Feb. 15*, 2021 2364-2378
- Xie, S.**, see Jin, X., *JIoT April 15*, 2021 6324-6336
- Xie, W.**, Tian, R., Zhang, J., and Zhang, Q., Noncontact Respiration Detection Leveraging Music and Broadcast Signals; *JIoT Feb. 15*, 2021 2931-2942
- Xie, X.**, see Shi, Z., *JIoT March 1*, 2021 3476-3489
- Xie, Y.**, see Xue, Z., *JIoT June 1*, 2021 9122-9138
- Xie, Z.**, see Pang, J., *JIoT March 1*, 2021 3088-3098
- Xin, C.**, see Zhang, Q., *JIoT July 1*, 2021 10412-10429
- Xing, C.**, see Gong, S., *JIoT May 15*, 2021 8585-8602
- Xing, G.**, Chen, Y., Hou, R., Dong, M., Zeng, D., Luo, J., and Ma, M., Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks; *JIoT June 1*, 2021 9005-9013
- Xing, G.**, see Chang, X., *JIoT Aug. 15*, 2021 12892-12901
- Xing, H.**, see Chen, J., *JIoT Dec. 15*, 2021 17508-17524
- Xing, J.**, see Chen, J., *JIoT Oct. 15*, 2021 15191-15204
- Xing, K.**, see Xu, J., *JIoT April 1*, 2021 5762-5777
- Xing, L.**, Cascading Failures in Internet of Things: Review and Perspectives on Reliability and Resilience; *JIoT Jan. 1*, 2021 44-64
- Xing, L.**, see Zhang, Y., *JIoT March 1*, 2021 3786-3800
- Xing, L.**, see Guo, F., *JIoT Oct. 1*, 2021 15024-15036
- Xing, W.**, see Gao, R., *JIoT Aug. 15*, 2021 12955-12967
- Xing, X.**, see Yu, D., *JIoT Oct. 15*, 2021 15160-15169
- Xing, Y.**, see Zhou, X., *JIoT July 15*, 2021 11276-11289
- Xiong, F.**, see Qin, Z., *JIoT Dec. 15*, 2021 17290-17307
- Xiong, H.**, see Wang, Q., *JIoT Feb. 1*, 2021 2011-2026
- Xiong, H.**, see Hou, Y., *JIoT June 1*, 2021 8935-8948
- Xiong, H.**, Zhao, Y., Hou, Y., Huang, X., Jin, C., Wang, L., and Kumari, S., Heterogeneous Signcryption With Equality Test for IIoT Environment; *JIoT Nov. 1*, 2021 16142-16152
- Xiong, H.**, see Wang, K., *JIoT Nov. 15*, 2021 16666-16679
- Xiong, J.**, see Guo, D., *JIoT Aug. 1*, 2021 12137-12149
- Xiong, J.**, see Jiang, J., *JIoT Oct. 15*, 2021 15284-15291
- Xiong, K.**, see Hu, H., *JIoT Jan. 15*, 2021 1211-1223
- Xiong, K.**, see Zheng, H., *JIoT March 15*, 2021 4802-4815
- Xiong, L.**, see Xia, X., *JIoT Oct. 1*, 2021 14845-14859
- Xiong, M.**, Liu, Q., Wang, G., Giannakis, G.B., Zhang, S., Zhu, J., and Huang, C., Resonant Beam Communications With Echo Interference Elimination; *JIoT Feb. 15*, 2021 2875-2885
- Xiong, N.N.**, see Shen, M., *JIoT April 15*, 2021 6437-6453
- Xiong, N.N.**, see Yang, L., *JIoT June 15*, 2021 9717-9729
- Xiong, N.N.**, see Zhang, L., *JIoT Dec. 1*, 2021 17120-17130
- Xiong, X.**, see Chang, Z., *JIoT Sept. 15*, 2021 13849-13875
- Xiong, Z.**, see Sheng, H., *JIoT Feb. 15*, 2021 2193-2207
- Xiong, Z.**, see Sheng, H., *JIoT March 1*, 2021 3189-3200
- Xiong, Z.**, see Liu, R.W., *JIoT April 1*, 2021 5374-5385
- Xiong, Z.**, see Liu, Y., *JIoT April 15*, 2021 6348-6358
- Xiong, Z.**, see Lim, W.Y.B., *JIoT Dec. 1*, 2021 16853-16862
- Xu, B.**, see Guo, F., *JIoT Oct. 1*, 2021 15024-15036
- Xu, C.**, see Yin, X., *JIoT Feb. 1*, 2021 1599-1610
- Xu, C.**, see Zhang, X., *JIoT May 15*, 2021 8234-8245
- Xu, C.**, see Zhao, Y., *JIoT Sept. 1*, 2021 13750-13762
- Xu, C.**, Zhang, T., Kuang, X., Zhou, Z., and Yu, S., Context-Aware Adaptive Route Mutation Scheme: A Reinforcement Learning Approach; *JIoT Sept. 1*, 2021 13528-13541
- Xu, C.**, see Zhan, W., *JIoT Sept. 1*, 2021 13237-13250
- Xu, C.**, see Wu, F., *JIoT Oct. 15*, 2021 15216-15227
- Xu, C.**, see Wang, K., *JIoT Nov. 15*, 2021 16666-16679
- Xu, C.**, Gao, Z., Zhang, D., Zhang, J., Xu, L., and Li, S., Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things; *JIoT Dec. 1*, 2021 16902-16910
- Xu, D.**, Chen, X., Zhang, N., Ding, N., Zhang, J., Fang, D., and Gu, T., Cantor: Improving Goodput in LoRa Concurrent Transmission; *JIoT Feb. 1*, 2021 1519-1532
- Xu, D.**, see Gu, Y., *JIoT Sept. 15*, 2021 14051-14065
- Xu, G.**, see Xu, H., *JIoT March 15*, 2021 4668-4680
- Xu, G.**, see Li, Y., *JIoT April 15*, 2021 6178-6186
- Xu, G.**, see Li, C., *JIoT May 1*, 2021 7192-7202
- Xu, G.**, see Sun, J., *JIoT June 15*, 2021 10034-10046
- Xu, G.**, Zhao, Y., Jiao, L., Feng, M., Ji, Z., Panaousis, E., Chen, S., and Zheng, X., TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems; *JIoT June 15*, 2021 9559-9567
- Xu, G.**, see Luo, H., *JIoT July 1*, 2021 10884-10895
- Xu, H.**, Zhang, L., Onireti, O., Fang, Y., Buchanan, W.J., and Imran, M.A., BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond; *JIoT March 1*, 2021 3915-3929
- Xu, H.**, Liu, X., Hatcher, W.G., Xu, G., Liao, W., and Yu, W., Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things; *JIoT March 15*, 2021 4668-4680
- Xu, H.**, Wu, J., Li, J., and Lin, X., Deep-Reinforcement-Learning-Based Cyber-twin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing; *JIoT Nov. 15*, 2021 16337-16348
- Xu, H.**, Li, Q., Gao, H., Xu, X., and Han, Z., Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT; *JIoT Dec. 15*, 2021 17678-17690
- Xu, J.**, Xing, K., Zhang, C., Zhang, S., Xu, Z., Zhong, C., Zhu, H., Yang, Z., and Liu, Y., Collective Memory for Detecting Nonconcurrent Clones: A Localized Approach for Global Topology and Identity Tracing in IoT Networks; *JIoT April 1*, 2021 5762-5777
- Xu, J.**, see Jiang, H., *JIoT June 1*, 2021 9450-9459
- Xu, J.**, Huang, H., Kan, J., Zhang, Y., and Hong, Y., Topological Optimization of Lung Wireless Nanosensor Network; *JIoT July 15*, 2021 11450-11462
- Xu, J.**, Zhou, Y., Ding, Y., Yang, D., and Xu, L., Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing; *JIoT Oct. 1*, 2021 14971-14984
- Xu, K.**, see Shen, M., *JIoT Feb. 15*, 2021 2265-2275
- Xu, K.**, see Yang, S., *JIoT June 15*, 2021 9580-9593
- Xu, K.**, see Huang, X., *JIoT July 1*, 2021 10911-10921
- Xu, K.**, see Zhao, Y., *JIoT Dec. 1*, 2021 16933-16945
- Xu, L.**, see Guo, W., *JIoT March 1*, 2021 3576-3586
- Xu, L.**, Wang, H., and Gulliver, T.A., Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network; *JIoT March 1*, 2021 3524-3533
- Xu, L.**, Wang, J., Li, X., Cai, F., Tao, Y., and Gulliver, T.A., Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach; *JIoT Sept. 1*, 2021 13355-13366
- Xu, L.**, see Xu, J., *JIoT Oct. 1*, 2021 14971-14984
- Xu, L.**, see Eid, A., *JIoT Oct. 1*, 2021 14719-14730
- Xu, L.**, see Shen, Y., *JIoT Dec. 1*, 2021 16770-16778
- Xu, L.**, see Xu, C., *JIoT Dec. 1*, 2021 16902-16910
- Xu, L.**, see Jiao, J., *JIoT Dec. 15*, 2021 17403-17416
- Xu, L.**, see Chen, J., *JIoT Dec. 15*, 2021 17508-17524
- Xu, L.D.**, see Li, X., *JIoT June 1*, 2021 8657-8666

- Xu, L.D.**, Lu, Y., and Li, L., Embedding Blockchain Technology Into IoT for Security: A Survey; *JIoT July 1, 2021 10452-10473*
- Xu, M.**, see Wu, H., *JIoT Feb. 15, 2021 2163-2176*
- Xu, M.**, see Li, Z., *JIoT Feb. 15, 2021 2364-2378*
- Xu, M.**, see Lin, M., *JIoT June 15, 2021 10187-10197*
- Xu, M.**, see Zhu, R., *JIoT Aug. 1, 2021 12410-12421*
- Xu, M.**, see Yu, D., *JIoT Oct. 15, 2021 15160-15169*
- Xu, M.**, see Li, Y., *JIoT Nov. 15, 2021 16370-16378*
- Xu, N.**, see Xia, X., *JIoT Oct. 1, 2021 14845-14859*
- Xu, P.**, see Wang, K., *JIoT April 1, 2021 5332-5339*
- Xu, P.**, Wang, Y., Chen, G., Pan, G., and Ding, Z., Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT; *JIoT May 15, 2021 8145-8158*
- Xu, Q.**, Su, Z., Zhang, K., and Yu, S., Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things; *JIoT Nov. 15, 2021 16473-16485*
- Xu, R.**, see Bai, W., *JIoT April 15, 2021 6865-6877*
- Xu, R.**, see Zhang, H., *JIoT July 1, 2021 10779-10791*
- Xu, S.**, see Wang, Q., *JIoT June 1, 2021 9436-9449*
- Xu, S.**, see Chen, Q., *JIoT Sept. 15, 2021 14355-14371*
- Xu, S.**, Rao, H., Peng, H., Jiang, X., Guo, Y., Hu, X., and Hu, B., Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition; *JIoT Nov. 1, 2021 15990-16001*
- Xu, T.**, see Dou, F., *JIoT April 15, 2021 6519-6535*
- Xu, T.**, see Wu, F., *JIoT Oct. 15, 2021 15216-15227*
- Xu, T.**, see Zhao, F., *JIoT Dec. 1, 2021 16758-16769*
- Xu, W.**, see Zhang, J., *JIoT Jan. 1, 2021 244-261*
- Xu, W.**, see Guo, Z., *JIoT Jan. 1, 2021 512-527*
- Xu, W.**, see Qin, M., *JIoT Feb. 1, 2021 1896-1907*
- Xu, W.**, see Huang, S., *JIoT Feb. 1, 2021 2051-2065*
- Xu, W.**, see Xu, Y., *JIoT Feb. 15, 2021 2681-2693*
- Xu, W.**, see Zhang, J., *JIoT Feb. 15, 2021 2992-2999*
- Xu, W.**, see Song, C., *JIoT May 1, 2021 7510-7520*
- Xu, W.**, see Shang, J., *JIoT Nov. 15, 2021 16571-16584*
- Xu, X.**, see Wang, B., *JIoT Feb. 1, 2021 1388-1405*
- Xu, X.**, see Wang, B., *JIoT Feb. 1, 2021 1830-1845*
- Xu, X.**, see Hou, L., *JIoT Feb. 15, 2021 2419-2430*
- Xu, X.**, Zhao, H., Yao, H., and Wang, S., A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT; *JIoT Feb. 15, 2021 2431-2443*
- Xu, X.**, see Qian, L.P., *JIoT Feb. 15, 2021 2150-2162*
- Xu, X.**, see Zhang, W., *JIoT April 1, 2021 5926-5937*
- Xu, X.**, see Li, Y., *JIoT April 15, 2021 6337-6347*
- Xu, X.**, Li, J., Yang, Y., and Shen, F., Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder; *JIoT April 15, 2021 6187-6196*
- Xu, X.**, see Gu, Y., *JIoT April 15, 2021 6771-6788*
- Xu, X.**, see Sun, M., *JIoT May 15, 2021 8005-8020*
- Xu, X.**, Wang, X., Li, Z., Yu, H., Sun, G., Maharjan, S., and Zhang, Y., Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications; *JIoT July 1, 2021 10596-10607*
- Xu, X.**, see Zhou, X., *JIoT Aug. 15, 2021 12588-12596*
- Xu, X.**, see Liu, L., *JIoT Oct. 15, 2021 15249-15258*
- Xu, X.**, see Liu, L., *JIoT Dec. 1, 2021 17057-17070*
- Xu, X.**, see Xu, H., *JIoT Dec. 15, 2021 17678-17690*
- Xu, X.**, see Sun, M., *JIoT Dec. 15, 2021 17275-17289*
- Xu, Y.**, see Cheng, Y., *JIoT Jan. 1, 2021 144-155*
- Xu, Y.**, Shmaliy, Y.S., Ahn, C.K., Shen, T., and Zhuang, Y., Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization; *JIoT Feb. 1, 2021 1716-1727*
- Xu, Y.**, Deng, Z., Wang, M., Xu, W., So, A.M., and Cui, S., Voting-Based Multi-agent Reinforcement Learning for Intelligent IoT; *JIoT Feb. 15, 2021 2681-2693*
- Xu, Y.**, Liu, J., Shen, Y., Liu, J., Jiang, X., and Taleb, T., Incentive Jamming-Based Secure Routing in Decentralized Internet of Things; *JIoT Feb. 15, 2021 3000-3013*
- Xu, Y.**, see Gao, Z., *JIoT March 1, 2021 3422-3437*
- Xu, Y.**, Gradient-Free Scheduling of Fog Computation for Marine Data Feedback; *JIoT April 1, 2021 5657-5668*
- Xu, Y.**, see Bai, W., *JIoT April 15, 2021 6865-6877*
- Xu, Y.**, see Bai, W., *JIoT April 15, 2021 6865-6877*
- Xu, Y.**, Zhou, H., Ma, T., Zhao, J., Qian, B., and Shen, X., Leveraging Multi-agent Learning for Automated Vehicles Scheduling at Nonsignalized Intersections; *JIoT July 15, 2021 11427-11439*
- Xu, Y.**, see Chen, L., *JIoT Aug. 15, 2021 12610-12622*
- Xu, Y.**, see Kong, D., *JIoT Aug. 15, 2021 12880-12891*
- Xu, Y.**, Xie, H., Liang, C., and Yu, F.R., Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model; *JIoT Oct. 1, 2021 14908-14919*
- Xu, Y.**, see Zhang, T., *JIoT Oct. 15, 2021 15334-15348*
- Xu, Y.**, see Yu, D., *JIoT Oct. 15, 2021 15160-15169*
- Xu, Y.**, Liu, Z., Huang, C., and Yuen, C., Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks; *JIoT Dec. 1, 2021 17161-17171*
- Xu, Z.**, see Guo, Z., *JIoT Jan. 1, 2021 512-527*
- Xu, Z.**, see Li, S., *JIoT Jan. 15, 2021 989-1000*
- Xu, Z.**, see Xu, J., *JIoT April 1, 2021 5762-5777*
- Xu, Z.**, see Xue, Z., *JIoT June 1, 2021 9122-9138*
- Xu, Z.**, see Wu, S., *JIoT June 15, 2021 10085-10102*
- Xu, Z.**, see Zhou, Q., *JIoT Aug. 1, 2021 11916-11934*
- Xue, G.**, see Wang, Z., *JIoT April 15, 2021 6733-6745*
- Xue, K.**, Zhu, B., Yang, Q., Gai, N., Wei, D.S.L., and Yu, N., InPPTD: A Lightweight Incentive-Based Privacy-Preserving Truth Discovery for Crowdsensing Systems; *JIoT March 15, 2021 4305-4316*
- Xue, L.**, see Liang, J., *JIoT Aug. 15, 2021 12528-12539*
- Xue, L.**, see Liang, J., *JIoT Dec. 1, 2021 17029-17042*
- Xue, X.**, see Li, X., *JIoT Aug. 1, 2021 12176-12188*
- Xue, Z.**, Zhou, P., Xu, Z., Wang, X., Xie, Y., Ding, X., and Wen, S., A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach; *JIoT June 1, 2021 9122-9138*

Y

- Yaacoub, E.**, see Saria Allahham, M., *JIoT April 15, 2021 6454-6468*
- Yaacoub, E.**, see Gouissem, A., *JIoT Dec. 1, 2021 16880-16893*
- Yadav, P.**, Salwala, D., and Curry, E., VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things; *JIoT July 1, 2021 10367-10389*
- Yadav, R.N.**, see Prajapat, R., *JIoT Sept. 1, 2021 13593-13607*
- Yahya, H.**, Al-Dweik, A., and Alsusa, E., Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems; *JIoT Oct. 1, 2021 14896-14907*
- Yahyaoui, K.**, see Serhane, O., *JIoT March 15, 2021 4081-4104*
- Yamada, S.**, see Tao, L., *JIoT July 15, 2021 11548-11560*
- Yamamoto, Y.**, see Qian, K., *JIoT May 15, 2021 8343-8355*
- Yamamoto, Y.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Yan, H.**, see Liu, K., *JIoT April 15, 2021 6815-6827*
- Yan, H.**, see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Yan, H.**, Ashikhmin, A., and Yang, H., A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO; *JIoT Oct. 1, 2021 14705-14718*
- Yan, J.**, Meng, Y., Luo, X., and Guan, X., To Hide Private Position Information in Localization for Internet of Underwater Things; *JIoT Sept. 15, 2021 14338-14354*
- Yan, J.**, see Zhao, H., *JIoT Sept. 15, 2021 14094-14109*
- Yan, J.**, Qi, G., Kang, B., Wu, X., and Liu, H., Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments; *JIoT Oct. 1, 2021 14623-14637*
- Yan, Q.**, see Sangdeh, P.K., *JIoT Sept. 1, 2021 13516-13527*
- Yan, S.**, see Li, D., *JIoT May 1, 2021 7229-7240*
- Yan, S.**, see Shi, W., *JIoT Oct. 1, 2021 14572-14588*

- Yan, S., Ye, Q., and Zhuang, W., Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks ; *JIoT Nov. 15, 2021 16326-16336*
- Yan, W., see Bai, X., *JIoT March 1, 2021 3730-3742*
- Yan, X., Ng, W.W.Y., Zeng, B., Lin, C., Liu, Y., Lu, L., and Gao, Y., Verifiable, Reliable, and Privacy-Preserving Data Aggregation in Fog-Assisted Mobile Crowdsensing; *JIoT Sept. 15, 2021 14127-14140*
- Yan, Y., Zou, Z., Xie, H., Gao, Y., and Zheng, L., An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code; *JIoT April 15, 2021 6789-6799*
- Yan, Y., An, K., Zhang, B., Zhu, W., Ding, G., and Guo, D., Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks; *JIoT May 15, 2021 8159-8172*
- Yan, Y., see Wu, H., *JIoT July 15, 2021 11514-11525*
- Yan, Z., see Ou, Z., *JIoT May 1, 2021 7279-7287*
- Yan, Z., see Zhou, X., *JIoT Aug. 15, 2021 12588-12596*
- Yan, Z., see Zhao, D., *JIoT Aug. 15, 2021 12855-12879*
- Yang, A., Boshoff, D., Hu, Q., Hancke, G.P., Luo, X., Weng, J., Mayes, K., and Markantonakis, K., Privacy-Preserving Group Authentication for RFID Tags Using Bit-Collision Patterns; *JIoT July 15, 2021 11607-11620*
- Yang, B., see Wu, D., *JIoT March 15, 2021 4579-4589*
- Yang, B., see Chen, R., *JIoT March 15, 2021 5062-5074*
- Yang, B., see Gao, C., *JIoT April 15, 2021 6313-6323*
- Yang, B., see Luo, W., *JIoT May 15, 2021 7833-7848*
- Yang, B., Cao, X., Yuen, C., and Qian, L., Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs; *JIoT June 15, 2021 9878-9893*
- Yang, B., see Ma, K., *JIoT Sept. 1, 2021 13343-13354*
- Yang, B., see Cao, X., *JIoT Sept. 15, 2021 14171-14186*
- Yang, B., see Liu, P., *JIoT Nov. 15, 2021 16559-16570*
- Yang, B.X., see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Yang, C., see Kristiani, E., *JIoT Jan. 1, 2021 309-319*
- Yang, C., see Liu, Y., *JIoT Aug. 1, 2021 12266-12278*
- Yang, C., see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Yang, D., see Xu, J., *JIoT Oct. 1, 2021 14971-14984*
- Yang, F., see Wang, T., *JIoT June 1, 2021 9014-9029*
- Yang, F., Shu, L., Yang, Y., Liu, Y., and Gordon, T., Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things ; *JIoT June 15, 2021 10170-10186*
- Yang, F., Shu, L., Yang, Y., Han, G., Pearson, S., and Li, K., Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands; *JIoT Aug. 15, 2021 13095-13114*
- Yang, F., Wu, Q., Hu, X., Ye, J., Yang, Y., Rao, H., Ma, R., and Hu, B., Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications; *JIoT Nov. 1, 2021 15892-15905*
- Yang, F., see Yuan, Q., *JIoT Nov. 15, 2021 16359-16369*
- Yang, G., Hou, L., He, X., He, D., Chan, S., and Guizani, M., Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing; *JIoT Feb. 15, 2021 2483-2493*
- Yang, G., see Wang, Y., *JIoT March 1, 2021 3446-3461*
- Yang, G., see Zhang, H., *JIoT April 1, 2021 5632-5644*
- Yang, G., see Zhou, R., *JIoT April 15, 2021 6425-6436*
- Yang, G., see Li, Y., *JIoT April 15, 2021 6878-6892*
- Yang, G., see Guo, R., *JIoT June 1, 2021 8949-8963*
- Yang, H., see Shi, Z., *JIoT March 1, 2021 3476-3489*
- Yang, H., Sun, Z., Jiang, G., Zhao, F., Lu, X., and Mei, X., Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model; *JIoT April 15, 2021 6940-6948*
- Yang, H., see Yan, H., *JIoT Oct. 1, 2021 14705-14718*
- Yang, H., see Wang, J., *JIoT Oct. 15, 2021 15126-15139*
- Yang, H.H., see Zhang, Q., *JIoT June 15, 2021 10146-10159*
- Yang, J., Guo, B., Wang, Z., and Ma, Y., Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City; *JIoT April 15, 2021 6416-6424*
- Yang, J., see Wang, C., *JIoT June 1, 2021 9317-9329*
- Yang, J., see Jiang, H., *JIoT June 15, 2021 9495-9510*
- Yang, J., Zhao, X., and Li, Z., Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach; *JIoT July 1, 2021 10693-10705*
- Yang, J., see Luo, W., *JIoT Aug. 15, 2021 12650-12657*
- Yang, J., see Ma, K., *JIoT Sept. 1, 2021 13343-13354*
- Yang, J., see Liu, P., *JIoT Nov. 15, 2021 16559-16570*
- Yang, J., see Li, X., *JIoT Nov. 15, 2021 16598-16612*
- Yang, J., see Wang, D., *JIoT Dec. 15, 2021 17345-17355*
- Yang, K., see Hu, J., *JIoT Feb. 15, 2021 2102-2115*
- Yang, K., see Wu, S., *JIoT June 15, 2021 10085-10102*
- Yang, K., see Wang, Y., *JIoT Sept. 1, 2021 13640-13651*
- Yang, L., see Chen, W., *JIoT Jan. 1, 2021 501-511*
- Yang, L., see Mollah, M.B., *JIoT Jan. 1, 2021 18-43*
- Yang, L., see Zhang, W., *JIoT Feb. 1, 2021 2000-2010*
- Yang, L., Li, M., Si, P., Yang, R., Sun, E., and Zhang, Y., Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning; *JIoT Feb. 15, 2021 2318-2329*
- Yang, L., Li, M., Zhang, H., Ji, H., Xiao, M., and Li, X., Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks; *JIoT Feb. 15, 2021 2330-2341*
- Yang, L., see Sahni, Y., *JIoT March 15, 2021 4893-4905*
- Yang, L., see Li, B., *JIoT March 15, 2021 4657-4667*
- Yang, L., see Mukherjee, A., *JIoT April 1, 2021 5194-5201*
- Yang, L., see Hua, M., *JIoT May 1, 2021 7691-7705*
- Yang, L., Guo, S., Yi, L., Wang, Q., and Yang, Y., NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing; *JIoT May 15, 2021 8107-8118*
- Yang, L., see Zhang, L., *JIoT May 15, 2021 8644-8656*
- Yang, L., see Cheng, X., *JIoT June 1, 2021 9109-9121*
- Yang, L., Zhang, H., and He, Y., Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks; *JIoT June 1, 2021 8854-8864*
- Yang, L., Li, Y., Wang, J., and Xiong, N.N., FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IoT Technology; *JIoT June 15, 2021 9717-9729*
- Yang, L., Lu, Y., Cao, J., Huang, J., and Zhang, M., E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI; *JIoT July 15, 2021 11290-11304*
- Yang, L., see Omwenga, M.M., *JIoT July 15, 2021 11594-11606*
- Yang, L., see Chen, X., *JIoT Nov. 1, 2021 15939-15952*
- Yang, L., see Tang, Y., *JIoT Nov. 1, 2021 16023-16034*
- Yang, L.T., see Yi, Y., *JIoT Feb. 15, 2021 2177-2192*
- Yang, L.T., see Yi, L., *JIoT March 1, 2021 3108-3119*
- Yang, L.T., see Dai, C., *JIoT June 15, 2021 9697-9705*
- Yang, L.T., see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Yang, L.T., see Tiwari, M., *JIoT July 1, 2021 10631-10638*
- Yang, L.T., see Yang, W., *JIoT Aug. 15, 2021 12478-12480*
- Yang, L.T., see Meng, W., *JIoT Nov. 1, 2021 16014-16022*
- Yang, L.T., see Feng, J., *JIoT Dec. 1, 2021 16801-16813*
- Yang, M., Liu, N., Zuo, L., Feng, Y., Liu, M., Gong, H., and Liu, M., Dynamic Charging Scheme Problem With Actor-Critic Reinforcement Learning ; *JIoT Jan. 1, 2021 370-380*
- Yang, M., Zhu, H., Wang, H., Koucheryavy, Y., Samouylov, K., and Qian, H., An Online Learning Approach to Computation Offloading in Dynamic Fog Networks; *JIoT Feb. 1, 2021 1572-1584*
- Yang, M., see Gao, P., *JIoT March 1, 2021 3287-3299*
- Yang, M., see Liu, K., *JIoT April 15, 2021 6815-6827*
- Yang, M., see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Yang, M., Zhu, H., Qian, H., Koucheryavy, Y., Samouylov, K., and Wang, H., Peer Offloading With Delayed Feedback in Fog Networks; *JIoT Sept. 1, 2021 13690-13702*
- Yang, N., Chen, K., and Wang, M., SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks; *JIoT Aug. 1, 2021 12119-12136*
- Yang, P., see Cao, X., *JIoT March 15, 2021 4526-4539*
- Yang, P., see Xiang, C., *JIoT May 15, 2021 8314-8327*

- Yang, P.**, Xi, X., Quek, T.Q.S., Chen, J., Cao, X., and Wu, D., RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization; *JIoT Sept. 15, 2021 14258-14275*
- Yang, P.**, see Chen, W., *JIoT Nov. 15, 2021 16510-16521*
- Yang, Q.**, see Qin, M., *JIoT Feb. 1, 2021 1896-1907*
- Yang, Q.**, see Zhang, F., *JIoT March 1, 2021 3075-3087*
- Yang, Q.**, see Xue, K., *JIoT March 15, 2021 4305-4316*
- Yang, Q.**, see Li, Y., *JIoT March 15, 2021 4514-4525*
- Yang, Q.**, see Yao, S., *JIoT April 1, 2021 6062-6076*
- Yang, Q.**, see Guo, J., *JIoT July 15, 2021 11078-11087*
- Yang, Q.**, and Wang, H., Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain ; *JIoT July 15, 2021 11463-11475*
- Yang, Q.**, see Dong, W., *JIoT Sept. 1, 2021 13703-13711*
- Yang, Q.**, see Wu, Y., *JIoT Oct. 1, 2021 14920-14933*
- Yang, R.**, see Yang, L., *JIoT Feb. 15, 2021 2318-2329*
- Yang, S.**, He, N., Li, F., Trajanovski, S., Chen, X., Wang, Y., and Fu, X., Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing; *JIoT Jan. 15, 2021 1095-1108*
- Yang, S.**, see Cui, L., *JIoT Feb. 15, 2021 2395-2408*
- Yang, S.**, see Ren, X., *JIoT Feb. 15, 2021 2775-2791*
- Yang, S.**, see Cao, B., *JIoT March 1, 2021 3099-3107*
- Yang, S.**, see Zhao, W., *JIoT March 15, 2021 4023-4034*
- Yang, S.**, Wen, Y., He, L., and Zhou, M., Sparse Common Feature Representation for Undersampled Face Recognition; *JIoT April 1, 2021 5607-5618*
- Yang, S.**, see Hussain, S., *JIoT June 15, 2021 9484-9494*
- Yang, S.**, Xu, K., Cui, L., Ming, Z., Chen, Z., and Ming, Z., EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence; *JIoT June 15, 2021 9580-9593*
- Yang, S.**, see Wang, Y., *JIoT Aug. 1, 2021 12455-12466*
- Yang, S.**, Liu, J., Gong, X., Huang, G., and Bai, Y., A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning; *JIoT Dec. 1, 2021 17186-17198*
- Yang, S.**, Wen, Y., He, L., Zhou, M., and Abusorrah, A., Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System; *JIoT Dec. 15, 2021 17320-17332*
- Yang, S.X.**, see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Yang, T.**, see Qin, M., *JIoT Feb. 1, 2021 1896-1907*
- Yang, T.**, see Liu, Y., *JIoT Feb. 15, 2021 2627-2634*
- Yang, T.**, see Zhong, X., *JIoT May 15, 2021 8191-8209*
- Yang, T.**, see Feng, J., *JIoT June 1, 2021 9407-9421*
- Yang, T.**, see Huang, H., *JIoT Oct. 15, 2021 15081-15095*
- Yang, T.**, see Zheng, J., *JIoT Oct. 15, 2021 15372-15381*
- Yang, W.**, see Sun, X., *JIoT Jan. 1, 2021 528-540*
- Yang, W.**, Wang, S., and Mu, Y., An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System; *JIoT March 15, 2021 5000-5008*
- Yang, W.**, Guan, Z., Wu, L., Du, X., and Guizani, M., Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach ; *JIoT May 15, 2021 8632-8643*
- Yang, W.**, Yang, L.T., and Chronopoulos, A.T., Guest Editorial Special Issue on Smart IoT System: Opportunities by Linking Cloud, Edge, and AI; *JIoT Aug. 15, 2021 12478-12480*
- Yang, W.**, see Duan, S., *JIoT Dec. 1, 2021 17147-17160*
- Yang, X.**, see Ren, X., *JIoT Feb. 15, 2021 2775-2791*
- Yang, X.**, see Song, Y., *JIoT March 15, 2021 4250-4274*
- Yang, X.**, see Zhao, N., *JIoT March 15, 2021 4711-4722*
- Yang, X.**, Liu, W., Zhang, S., Liu, W., and Tao, D., Targeted Attention Attack on Deep Learning Models in Road Sign Recognition; *JIoT March 15, 2021 4980-4990*
- Yang, X.**, Luo, H., Sun, Y., Zou, J., and Guizani, M., Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks; *JIoT Aug. 15, 2021 12968-12982*
- Yang, X.**, see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Yang, X.**, see Zhang, Y., *JIoT Oct. 15, 2021 15500-15511*
- Yang, Y.**, see Xie, C., *JIoT Feb. 15, 2021 2635-2648*
- Yang, Y.**, Smith, D., Rajasegaran, J., and Seneviratne, S., Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning; *JIoT March 1, 2021 3567-3575*
- Yang, Y.**, see Zuo, X., *JIoT March 15, 2021 4590-4603*
- Yang, Y.**, see Huang, J., *JIoT April 1, 2021 5531-5543*
- Yang, Y.**, see Zhang, Z., *JIoT April 1, 2021 6012-6023*
- Yang, Y.**, see Huang, F., *JIoT April 15, 2021 6197-6204*
- Yang, Y.**, see Liu, T., *JIoT April 15, 2021 6649-6664*
- Yang, Y.**, see Xu, X., *JIoT April 15, 2021 6187-6196*
- Yang, Y.**, see Yang, L., *JIoT May 15, 2021 8107-8118*
- Yang, Y.**, see Zhong, X., *JIoT May 15, 2021 8191-8209*
- Yang, Y.**, see Li, L., *JIoT May 15, 2021 8078-8096*
- Yang, Y.**, see Deng, L., *JIoT June 1, 2021 8897-8909*
- Yang, Y.**, see Yang, F., *JIoT June 15, 2021 10170-10186*
- Yang, Y.**, see Wu, L., *JIoT July 15, 2021 11357-11367*
- Yang, Y.**, see Li, H., *JIoT Aug. 1, 2021 11847-11859*
- Yang, Y.**, see Ma, M., *JIoT Aug. 1, 2021 11877-11890*
- Yang, Y.**, see Wu, L., *JIoT Aug. 1, 2021 12339-12349*
- Yang, Y.**, see Yang, F., *JIoT Aug. 15, 2021 13095-13114*
- Yang, Y.**, Long, C., Wu, J., Peng, S., and Li, B., D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network; *JIoT Aug. 15, 2021 12490-12504*
- Yang, Y.**, see Luo, J., *JIoT Sept. 1, 2021 13126-13144*
- Yang, Y.**, see Zhu, J., *JIoT Sept. 1, 2021 13542-13554*
- Yang, Y.**, and Hanzo, L., Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things; *JIoT Sept. 15, 2021 14276-14286*
- Yang, Y.**, see Gao, X., *JIoT Oct. 1, 2021 14683-14704*
- Yang, Y.**, see Yang, F., *JIoT Nov. 1, 2021 15892-15905*
- Yang, Y.L.**, see Wan, G.C., *JIoT May 1, 2021 7476-7484*
- Yang, Z.**, see Li, Z., *JIoT Jan. 15, 2021 844-859*
- Yang, Z.**, see Lan, H., *JIoT Feb. 15, 2021 2814-2825*
- Yang, Z.**, see Li, P., *JIoT March 1, 2021 3512-3523*
- Yang, Z.**, see Wu, D., *JIoT March 15, 2021 4579-4589*
- Yang, Z.**, see Xu, J., *JIoT April 1, 2021 5762-5777*
- Yang, Z.**, Fang, Y., Han, G., and Huq, K.M.S., Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things; *JIoT April 1, 2021 5149-5163*
- Yang, Z.**, see Gong, S., *JIoT May 15, 2021 8585-8602*
- Yang, Z.**, see Chen, Y., *JIoT Aug. 1, 2021 12360-12374*
- Yang, Z.**, see Hu, Q., *JIoT Aug. 15, 2021 12782-12791*
- Yang, Z.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Yang, Z.**, Liang, B., and Ji, W., An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems; *JIoT Dec. 1, 2021 16779-16786*
- Yanikomeroglu, H.**, see Ren, Q., *JIoT Feb. 1, 2021 1453-1466*
- Yanikomeroglu, H.**, see Jaafar, W., *JIoT July 1, 2021 10573-10582*
- Yanikomeroglu, H.**, see Aydin, Y., *JIoT Sept. 15, 2021 13876-13887*
- Yao, B.**, Gao, H., Chen, Q., and Li, J., Energy-Adaptive and Bottleneck-Aware Many-to-Many Communication Scheduling for Battery-Free WSNs; *JIoT May 15, 2021 8514-8529*
- Yao, D.**, see Luo, Y., *JIoT Feb. 15, 2021 2736-2750*
- Yao, H.**, see Xu, X., *JIoT Feb. 15, 2021 2431-2443*
- Yao, H.**, see He, W., *JIoT April 15, 2021 6293-6304*
- Yao, H.**, see Qiu, C., *JIoT Aug. 15, 2021 12694-12704*
- Yao, J.**, and Ansari, N., Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control; *JIoT March 1, 2021 3438-3445*
- Yao, J.**, and Ansari, N., Caching in Dynamic IoT Networks by Deep Reinforcement Learning; *JIoT March 1, 2021 3268-3275*
- Yao, L.**, see Fan, W., *JIoT Dec. 15, 2021 17691-17704*
- Yao, Q.**, see Dong, X., *JIoT May 15, 2021 8032-8043*
- Yao, S.**, Feng, L., Zhao, Q., Yang, Q., and Liang, Y., ERFR-CTC: Exploiting Residual Frequency Resources in Physical-Level Cross-Technology Communication; *JIoT April 1, 2021 6062-6076*
- Yao, Y.**, see Dong, Y., *JIoT March 1, 2021 3500-3511*
- Yao, Y.**, see Liu, L., *JIoT April 15, 2021 6469-6486*

- Yao, Y.**, see Luo, B., *JIoT June 1, 2021 8734-8746*
- Yao, Y.**, see Lu, S., *JIoT July 1, 2021 10222-10236*
- Yao, Y.**, see Gu, Y., *JIoT Sept. 15, 2021 14051-14065*
- Yao, Z.**, see Huang, G., *JIoT May 15, 2021 8543-8556*
- Yau, D.K.Y.**, see Zhang, Z., *JIoT April 15, 2021 6608-6623*
- Yazdani, N.**, and Lucani, D.E., Online Compression of Multiple IoT Sources Reduces the Age of Information ; *JIoT Oct. 1, 2021 14514-14530*
- Yazdinejad, A.**, Parizi, R.M., Dehghantanha, A., Karimipour, H., Srivastava, G., and Aledhari, M., Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security; *JIoT April 15, 2021 6406-6415*
- Yazidi, A.**, see Hagos, D.H., *JIoT March 1, 2021 3534-3553*
- Ye, D.**, see Wu, M., *JIoT July 1, 2021 10639-10651*
- Ye, H.**, Kang, X., Joung, J., and Liang, Y., Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks; *JIoT Sept. 1, 2021 13397-13413*
- Ye, J.**, see Yang, F., *JIoT Nov. 1, 2021 15892-15905*
- Ye, Q.**, see Li, J., *JIoT July 15, 2021 11219-11232*
- Ye, Q.**, see Yan, S., *JIoT Nov. 15, 2021 16326-16336*
- Ye, Q.**, see Li, J., *JIoT Nov. 15, 2021 16313-16325*
- Ye, T.T.**, see Liu, Y., *JIoT Nov. 15, 2021 16486-16497*
- Ye, W.**, see Zhu, J., *JIoT Aug. 1, 2021 12350-12359*
- Ye, X.**, Ning, H., Backlund, P., and Ding, J., Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture; *JIoT Feb. 1, 2021 1373-1387*
- Ye, X.**, see Jiang, X., *JIoT Nov. 15, 2021 16535-16547*
- Ye, Y.**, see Zhang, L., *JIoT Jan. 1, 2021 156-167*
- Ye, Y.**, see Li, J., *JIoT Jan. 15, 2021 734-749*
- Ye, Y.**, see Guo, W., *JIoT March 1, 2021 3576-3586*
- Ye, Y.**, see Chen, H., *JIoT April 1, 2021 5360-5373*
- Ye, Y.**, see Li, K., *JIoT April 15, 2021 6904-6915*
- Ye, Y.**, see Shi, L., *JIoT July 1, 2021 10731-10744*
- Ye, Z.**, see Jiang, J., *JIoT April 1, 2021 5778-5793*
- Yeoh, P.L.**, see Forouzes, M., *JIoT May 1, 2021 7170-7181*
- Yeung, K.L.**, see Xiao, B., *JIoT Dec. 15, 2021 17724-17733*
- Yi, B.**, see Zhao, Y., *JIoT June 15, 2021 10018-10033*
- Yi, C.**, see Ji, J., *JIoT May 15, 2021 8570-8584*
- Yi, H.**, see Hahm, S., *JIoT March 1, 2021 3705-3716*
- Yi, J.**, see Zhu, L., *JIoT April 15, 2021 6828-6839*
- Yi, L.**, see Yi, Y., *JIoT Feb. 15, 2021 2177-2192*
- Yi, L.**, Deng, X., Yang, L.T., Wu, H., Wang, M., and Situ, Y., Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring; *JIoT March 1, 2021 3108-3119*
- Yi, L.**, see Yang, L., *JIoT May 15, 2021 8107-8118*
- Yi, X.**, see Zhu, F., *JIoT July 15, 2021 11678-11689*
- Yi, Y.**, Zhang, Z., Yang, L.T., Deng, X., Yi, L., and Wang, X., Social Interaction and Information Diffusion in Social Internet of Things: Dynamics, Cloud-Edge, Traceability; *JIoT Feb. 15, 2021 2177-2192*
- Yi, Y.**, see Song, H., *JIoT July 15, 2021 11208-11218*
- Yi, Y.**, see Li, X., *JIoT Nov. 15, 2021 16598-16612*
- Yi, Y.**, see Bai, J., *JIoT Dec. 15, 2021 17417-17428*
- Yildiz, H.**, Cenk, M., and Onur, E., PLGAKD: A PUF-Based Lightweight Group Authentication and Key Distribution Protocol ; *JIoT April 1, 2021 5682-5696*
- Yin, B.**, and Lu, J., A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks; *JIoT Sept. 1, 2021 13567-13581*
- Yin, C.**, see Wang, S., *JIoT Feb. 1, 2021 1358-1372*
- Yin, C.**, see Wang, S., *JIoT Dec. 15, 2021 17460-17475*
- Yin, H.**, see Zhang, W., *JIoT Feb. 1, 2021 2000-2010*
- Yin, L.**, see Liu, J., *JIoT Nov. 1, 2021 15807-15817*
- Yin, R.**, Wu, Z., Liu, S., Wu, C., Yuan, J., and Chen, X., Decentralized Radio Resource Adaptation in D2D-U Networks; *JIoT April 15, 2021 6720-6732*
- Yin, X.**, Chen, Y., Xu, C., Yu, S., and Li, B., Matchmaker: Stable Task Assignment With Bounded Constraints for Crowdsourcing Platforms; *JIoT Feb. 1, 2021 1599-1610*
- Yin, X.**, see Pal, R., *JIoT May 1, 2021 7360-7371*
- Yin, X.**, see Pal, R., *JIoT July 15, 2021 11773-11775*
- Ying, H.**, see Zhang, K., *JIoT Aug. 1, 2021 11935-11959*
- Ying, Z.**, see Ma, J., *JIoT July 1, 2021 10873-10883*
- Yongchareon, S.**, see Chen, D., *JIoT July 15, 2021 11193-11207*
- Yoo, W.**, see Heo, S., *JIoT July 1, 2021 10678-10692*
- Yoshiuchi, K.**, see Qian, K., *JIoT May 15, 2021 8343-8355*
- You, W.**, Dong, C., Cheng, X., Zhu, X., Wu, Q., and Chen, G., Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs; *JIoT Jan. 15, 2021 695-707*
- You, Y.**, Jung, Y., Choi, S., and Hwang, I., Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems; *JIoT Feb. 15, 2021 2900-2909*
- You, Z.**, see Dong, X., *JIoT May 15, 2021 8032-8043*
- Younan, M.**, Elhoseny, M., Ali, A.E.A., and Houssein, E.H., Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications; *JIoT April 1, 2021 5953-5972*
- Yu, B.**, see Xie, C., *JIoT Feb. 15, 2021 2635-2648*
- Yu, B.**, Wang, Y., Niu, K., Zeng, Y., Gu, T., Wang, L., Guan, C., and Zhang, D., WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices; *JIoT Sept. 15, 2021 13900-13913*
- Yu, C.**, see Wang, K., *JIoT Feb. 1, 2021 2080-2081*
- Yu, C.**, see Ren, X., *JIoT Feb. 15, 2021 2775-2791*
- Yu, C.**, Lin, J., and Wang, L., NUPFA: A Novel Nonuniform Power Formation Algorithm for BLE Mesh Networks; *JIoT April 15, 2021 7103-7104*
- Yu, C.**, Ku, M.L., and Wang, L., Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks; *JIoT April 15, 2021 7101-7102*
- Yu, C.**, see Shen, S., *JIoT Nov. 15, 2021 16269-16278*
- Yu, C.**, Quan, W., Gao, D., Zhang, Y., Liu, K., Wu, W., Zhang, H., and Shen, X., Reliable Cyberwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning; *JIoT Nov. 15, 2021 16207-16218*
- Yu, D.**, see Sheng, H., *JIoT Feb. 15, 2021 2193-2207*
- Yu, D.**, see Chen, S., *JIoT March 1, 2021 3276-3286*
- Yu, D.**, see Li, Y., *JIoT April 15, 2021 6178-6186*
- Yu, D.**, Zou, Y., Xu, M., Xu, Y., Zhang, Y., Gong, B., and Xing, X., Competitive Age of Information in Dynamic IoT Networks ; *JIoT Oct. 15, 2021 15160-15169*
- Yu, F.**, Cui, L., Wang, P., Han, C., Huang, R., and Huang, X., EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing; *JIoT Feb. 1, 2021 1259-1271*
- Yu, F.R.**, see Xie, R., *JIoT Jan. 1, 2021 345-356*
- Yu, F.R.**, see Ren, Q., *JIoT Feb. 1, 2021 1453-1466*
- Yu, F.R.**, see Fu, F., *JIoT Feb. 1, 2021 1308-1321*
- Yu, F.R.**, see Leung, V.C.M., *JIoT Feb. 15, 2021 2082-2086*
- Yu, F.R.**, see Zhang, R., *JIoT Feb. 15, 2021 2517-2539*
- Yu, F.R.**, see An, Y., *JIoT March 1, 2021 3554-3566*
- Yu, F.R.**, see Song, Y., *JIoT March 15, 2021 4250-4274*
- Yu, F.R.**, see He, W., *JIoT April 15, 2021 6293-6304*
- Yu, F.R.**, see Du, J., *JIoT May 15, 2021 7849-7862*
- Yu, F.R.**, see Wang, D., *JIoT June 1, 2021 9294-9304*
- Yu, F.R.**, see Luo, P., *JIoT July 15, 2021 11476-11486*
- Yu, F.R.**, see Guo, F., *JIoT Aug. 1, 2021 11891-11915*
- Yu, F.R.**, see Qiu, C., *JIoT Aug. 15, 2021 12694-12704*
- Yu, F.R.**, see Xu, Y., *JIoT Oct. 1, 2021 14908-14919*
- Yu, F.R.**, see Lin, P., *JIoT Nov. 1, 2021 15749-15761*
- Yu, F.R.**, see Liu, L., *JIoT Dec. 1, 2021 17057-17070*
- Yu, H.**, see Sun, G., *JIoT Feb. 1, 2021 1971-1984*
- Yu, H.**, Zhang, H., Yu, X., Du, X., and Guizani, M., PGRide: Privacy-Preserving Group Ridesharing Matching in Online Ride Hailing Services; *JIoT April 1, 2021 5722-5735*
- Yu, H.**, see Pei, X., *JIoT April 1, 2021 5240-5249*
- Yu, H.**, see Sun, G., *JIoT April 15, 2021 6257-6272*
- Yu, H.**, see Jin, X., *JIoT April 15, 2021 6324-6336*
- Yu, H.**, see Xu, X., *JIoT July 1, 2021 10596-10607*
- Yu, H.**, see Chen, Y., *JIoT Aug. 1, 2021 12360-12374*
- Yu, H.**, see Chen, W., *JIoT Aug. 1, 2021 12398-12409*
- Yu, H.**, see Zhang, K., *JIoT Aug. 1, 2021 11935-11959*

- Yu, H.**, Chen, H., Zhao, S., and Shi, Q., Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus; *JIoT Nov. 1, 2021* 16096-16107
- Yu, H.**, see Li, G., *JIoT Nov. 15, 2021* 16440-16451
- Yu, H.**, and Joung, J., Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels; *JIoT Dec. 1, 2021* 17211-17226
- Yu, J.**, see Gao, P., *JIoT March 1, 2021* 3287-3299
- Yu, J.**, see Li, T., *JIoT May 15, 2021* 8387-8398
- Yu, J.**, see Zhou, X., *JIoT July 15, 2021* 11276-11289
- Yu, J.**, see Chen, D., *JIoT July 15, 2021* 11193-11207
- Yu, J.**, see Ge, X., *JIoT Aug. 15, 2021* 12902-12918
- Yu, J.**, see Zhang, H., *JIoT Oct. 15, 2021* 15596-15607
- Yu, J.**, Chen, H., Wu, K., Zhou, T., Cai, Z., and Liu, F., Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage; *JIoT Nov. 15, 2021* 16498-16509
- Yu, J.**, see Wu, H., *JIoT Dec. 1, 2021* 16972-16983
- Yu, K.**, see Huang, X., *JIoT Jan. 1, 2021* 610-625
- Yu, K.**, see Zhang, W., *JIoT Feb. 1, 2021* 1406-1416
- Yu, K.**, see Zhen, L., *JIoT April 1, 2021* 5114-5128
- Yu, K.**, see Guo, Z., *JIoT June 15, 2021* 9549-9558
- Yu, L.**, Qin, S., Zhang, M., Shen, C., Jiang, T., and Guan, X., A Review of Deep Reinforcement Learning for Smart Building Energy Management ; *JIoT Aug. 1, 2021* 12046-12063
- Yu, L.**, see Guo, F., *JIoT Oct. 1, 2021* 15024-15036
- Yu, L.**, see Wang, Q., *JIoT Nov. 1, 2021* 16153-16164
- Yu, M.**, see Liu, Y., *JIoT Nov. 15, 2021* 16486-16497
- Yu, N.**, see Xue, K., *JIoT March 15, 2021* 4305-4316
- Yu, Q.**, see Zhang, W., *JIoT April 1, 2021* 5926-5937
- Yu, Q.**, see Gu, Y., *JIoT April 15, 2021* 6771-6788
- Yu, Q.**, Wang, M., Zhou, H., Ni, J., Chen, J., and Cespedes, S., Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications; *JIoT Nov. 15, 2021* 16191-16194
- Yu, Q.**, see Wang, R., *JIoT Dec. 1, 2021* 16825-16834
- Yu, R.**, see Wang, P., *JIoT May 1, 2021* 7562-7574
- Yu, R.**, see Wu, M., *JIoT July 1, 2021* 10639-10651
- Yu, S.**, see Yin, X., *JIoT Feb. 1, 2021* 1599-1610
- Yu, S.**, Chen, X., Zhou, Z., Gong, X., and Wu, D., When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network; *JIoT Feb. 15, 2021* 2238-2251
- Yu, S.**, see Zhang, J., *JIoT March 1, 2021* 3310-3322
- Yu, S.**, see Tian, Y., *JIoT March 1, 2021* 3300-3309
- Yu, S.**, see Xiao, Y., *JIoT March 15, 2021* 4560-4568
- Yu, S.**, see Wang, F., *JIoT April 1, 2021* 5321-5331
- Yu, S.**, see Zhang, J., *JIoT May 1, 2021* 7610-7624
- Yu, S.**, see Song, C., *JIoT May 1, 2021* 7510-7520
- Yu, S.**, see Liu, J., *JIoT May 1, 2021* 7546-7561
- Yu, S.**, see Tang, X., *JIoT June 15, 2021* 9511-9522
- Yu, S.**, see Zhu, R., *JIoT Aug. 1, 2021* 12410-12421
- Yu, S.**, see Hu, Q., *JIoT Aug. 15, 2021* 12782-12791
- Yu, S.**, see Xu, C., *JIoT Sept. 1, 2021* 13528-13541
- Yu, S.**, see Xu, Q., *JIoT Nov. 15, 2021* 16473-16485
- Yu, S.M.**, see Han, K., *JIoT Oct. 1, 2021* 14589-14606
- Yu, W.**, see Ren, X., *JIoT Feb. 15, 2021* 2775-2791
- Yu, W.**, Zhao, W., Schmeink, A., Song, H., and Dartmann, G., Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things; *JIoT March 1, 2021* 3053-3056
- Yu, W.**, see Xu, H., *JIoT March 15, 2021* 4668-4680
- Yu, W.**, Najafi, A., Huang, Y., and Garcia-Ortiz, A., Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT; *JIoT May 1, 2021* 7638-7648
- Yu, W.**, see Liang, F., *JIoT May 15, 2021* 8210-8222
- Yu, W.**, see Pei, L., *JIoT June 1, 2021* 9383-9396
- Yu, W.**, see Liu, X., *JIoT Aug. 1, 2021* 12163-12175
- Yu, W.**, see Zhou, J., *JIoT Nov. 1, 2021* 15818-15828
- Yu, X.**, see Yu, H., *JIoT April 1, 2021* 5722-5735
- Yu, Y.**, NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks; *JIoT Jan. 15, 2021* 962-975
- Yu, Y.**, Li, H., Cao, J., and Luo, X., Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera; *JIoT Feb. 1, 2021* 1740-1748
- Yu, Y.**, see Fang, L., *JIoT Feb. 15, 2021* 2603-2614
- Yu, Y.**, Chen, R., Chen, L., Zheng, X., Wu, D., Li, W., and Wu, Y., A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors; *JIoT June 1, 2021* 9359-9372
- Yu, Y.**, see Shi, W., *JIoT Oct. 1, 2021* 14572-14588
- Yu, Y.**, see Liu, J., *JIoT Nov. 15, 2021* 16290-16300
- Yu, Z.**, see Guo, X., *JIoT April 15, 2021* 6665-6676
- Yu, Z.**, see Miao, W., *JIoT June 15, 2021* 9934-9944
- Yu, Z.**, Han, L., Chen, C., and Guo, W., Object Tracking by the Least Spatio-temporal Searches; *JIoT Aug. 15, 2021* 12934-12946
- Yu, Z.**, see Yu, Z., *JIoT Aug. 15, 2021* 12934-12946
- Yu, Z.**, see Han, L., *JIoT Sept. 15, 2021* 13914-13925
- Yu, Z.**, see Han, L., *JIoT Sept. 15, 2021* 13914-13925
- Yu, Z.**, see Tai, Y., *JIoT Nov. 1, 2021* 15965-15976
- Yu, Z.**, see Wang, P., *JIoT Nov. 1, 2021* 15863-15874
- Yu, Z.L.**, see Zhang, J., *JIoT Feb. 15, 2021* 3027-3041
- Yuan, C.**, see Huang, H., *JIoT Oct. 15, 2021* 15081-15095
- Yuan, D.**, see Zhang, M., *JIoT July 15, 2021* 11732-11742
- Yuan, D.**, see Li, T., *JIoT Aug. 15, 2021* 13039-13051
- Yuan, H.**, see Li, S., *JIoT Feb. 15, 2021* 2920-2930
- Yuan, H.**, see Bi, J., *JIoT March 1, 2021* 3774-3785
- Yuan, H.**, Tang, G., Li, X., Guo, D., Luo, L., and Luo, X., Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach; *JIoT Oct. 1, 2021* 14985-14998
- Yuan, J.**, see Tian, Y., *JIoT March 1, 2021* 3300-3309
- Yuan, J.**, see Yin, R., *JIoT April 15, 2021* 6720-6732
- Yuan, Q.**, Fu, X., Li, Z., Luo, G., Li, J., and Yang, F., GraphComm: Efficient Graph Convolutional Communication for Multiagent Cooperation; *JIoT Nov. 15, 2021* 16359-16369
- Yuan, T.**, see Chang, T., *JIoT Feb. 1, 2021* 1846-1858
- Yuan, T.**, see Zhang, T., *JIoT Nov. 1, 2021* 16002-16013
- Yuan, X.**, see Chen, X., *JIoT Aug. 1, 2021* 12093-12105
- Yuan, Y.**, Islam, M.S., Wang, S., Baker, T., and Kolbe, L.M., ECRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning; *JIoT Aug. 15, 2021* 12734-12747
- Yuan, Y.**, see Yuan, Y., *JIoT Aug. 15, 2021* 12734-12747
- Yuan, Y.**, and Cai, X., A Human-Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment; *JIoT Oct. 15, 2021* 15292-15302
- Yuan, Z.**, see Ma, Y., *JIoT Oct. 15, 2021* 15382-15395
- Yuce, M.R.**, see Wu, F., *JIoT June 15, 2021* 9970-9980
- Yue, C.**, see Fang, T., *JIoT Sept. 15, 2021* 14418-14430
- Yue, G.**, see Liu, J., *JIoT May 1, 2021* 7546-7561
- Yue, G.**, see Jiang, B., *JIoT July 1, 2021* 10430-10451
- Yue, S.**, see Wang, Z., *JIoT Sept. 15, 2021* 14372-14384
- Yue, Y.**, Zhao, X., and Li, Z., Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique; *JIoT Jan. 15, 2021* 1183-1196
- Yuen, C.**, see Mollah, M.B., *JIoT March 15, 2021* 4157-4185
- Yuen, C.**, see Yang, B., *JIoT June 15, 2021* 9878-9893
- Yuen, C.**, see Lau, B.P.L., *JIoT July 15, 2021* 11503-11513
- Yuen, C.**, see Cao, X., *JIoT Sept. 15, 2021* 14171-14186
- Yuen, C.**, see Xu, Y., *JIoT Dec. 1, 2021* 17161-17171
- Yun, J.**, Goh, Y., and Chung, J., DQN-Based Optimization Framework for Secure Sharded Blockchain Systems; *JIoT Jan. 15, 2021* 708-722
- Yun, J.**, and Woo, J., IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis; *JIoT May 1, 2021* 7380-7393
- Yun, U.**, Kim, H., Ryu, T., Baek, Y., Nam, H., Lee, J., Vo, B., and Pedrycz, W., Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things; *JIoT Dec. 15, 2021* 17333-17344
- Yun, Z.**, see Faulkner, E., *JIoT June 1, 2021* 9206-9218

Yurtman, A., Barshan, B., and Redif, S., Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning; *JIoT May 15, 2021 8328-8342*
Yutaka, M., see Zhang, Y., *JIoT April 15, 2021 6372-6384*

Z

Zaghloul, E., Li, T., and Ren, J., *d*-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting; *JIoT Nov. 15, 2021 16585-16597*
Zahid, N., see Sodhro, A.H., *JIoT June 15, 2021 9664-9671*
Zahid, N.Z., see Sodhro, A.H., *JIoT April 1, 2021 5141-5148*
Zamburg, E., see Veluri, H., *JIoT June 1, 2021 9219-9232*
Zanchettin, C., see Freitas de Araujo-Filho, P., *JIoT April 15, 2021 6247-6256*
Zanella, A., see Michelinakis, F., *JIoT Jan. 15, 2021 1224-1242*
Zang, W., see Sun, F., *JIoT Feb. 1, 2021 1636-1650*
Zeng, B., see Yan, X., *JIoT Sept. 15, 2021 14127-14140*
Zeng, D., see Xing, G., *JIoT June 1, 2021 9005-9013*
Zeng, F., see Chen, Z., *JIoT April 1, 2021 5839-5849*
Zeng, H., see Cai, L., *JIoT Feb. 15, 2021 3014-3026*
Zeng, H., see Pirayesh, H., *JIoT March 15, 2021 4957-4968*
Zeng, H., see Sangdeh, P.K., *JIoT Sept. 1, 2021 13516-13527*
Zeng, K., see Alipour-Fanid, A., *JIoT Sept. 1, 2021 13278-13290*
Zeng, L., see Tang, X., *JIoT June 15, 2021 9511-9522*
Zeng, M., see Chen, Y., *JIoT Jan. 1, 2021 85-111*
Zeng, M., see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
Zeng, P., see Song, C., *JIoT May 1, 2021 7510-7520*
Zeng, P., Zhang, Z., Lu, R., and Choo, K.R., Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things; *JIoT July 1, 2021 10963-10972*
Zeng, X., Zhang, F., Wang, B., and Liu, K.J.R., Massive MIMO for High-Accuracy Target Localization and Tracking; *JIoT June 15, 2021 10131-10145*
Zeng, X., see Wang, F., *JIoT Nov. 15, 2021 16623-16636*
Zeng, Y., see Fan, S., *JIoT Feb. 15, 2021 2252-2264*
Zeng, Y., see Yu, B., *JIoT Sept. 15, 2021 13900-13913*
Zeng, Z., see Xie, C., *JIoT Feb. 15, 2021 2635-2648*
Zeng, Z., see Zhou, X., *JIoT Aug. 15, 2021 12588-12596*
Zha, S., see Lin, M., *JIoT June 15, 2021 10187-10197*
Zha, Y., see Chen, D., *JIoT July 15, 2021 11415-11426*
Zhai, D., see Du, J., *JIoT May 15, 2021 7849-7862*
Zhai, D., see Guo, X., *JIoT Dec. 15, 2021 17802-17816*
Zhai, G., see Sharif, A., *JIoT Jan. 15, 2021 889-900*
Zhai, G., see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
Zhai, G., see Sharif, A., *JIoT Dec. 15, 2021 17495-17507*
Zhai, Y., see Chen, B., *JIoT July 1, 2021 10248-10263*
Zhaikhan, A., Kishk, M.A., ElSawy, H., and Alouini, M., Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach; *JIoT April 1, 2021 6039-6052*
Zhan, C., Hu, H., Liu, Z., Wang, Z., and Mao, S., Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications; *JIoT Oct. 15, 2021 15553-15567*
Zhan, C., Zheng, Y., Zhang, H., and Wen, Q., Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic; *JIoT Nov. 1, 2021 15906-15918*
Zhan, W., Xu, C., Sun, X., and Zou, J., Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System; *JIoT Sept. 1, 2021 13237-13250*
Zhan, Y., Wang, B., and Lu, R., Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks; *JIoT April 1, 2021 5973-5984*
Zhang, A., Zhang, P., Wang, H., and Lin, X., Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management; *JIoT May 15, 2021 7874-7888*
Zhang, A., see Zhu, K., *JIoT Aug. 1, 2021 12064-12078*
Zhang, B., see Wang, J., *JIoT Jan. 15, 2021 927-940*
Zhang, B., see Shen, M., *JIoT Feb. 15, 2021 2265-2275*
Zhang, B., see Zhang, X., *JIoT April 15, 2021 7009-7023*
Zhang, B., see Zhong, X., *JIoT May 15, 2021 8191-8209*

Zhang, B., see Yan, Y., *JIoT May 15, 2021 8159-8172*
Zhang, B., see Huang, G., *JIoT May 15, 2021 8543-8556*
Zhang, B., Liu, W., Li, Q., Li, Y., Zhao, X., Zhang, C., and Wang, C., Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks; *JIoT Oct. 15, 2021 15140-15147*
Zhang, C., Li, W., Luo, Y., and Hu, Y., AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology; *JIoT March 1, 2021 3157-3169*
Zhang, C., see Xu, J., *JIoT April 1, 2021 5762-5777*
Zhang, C., see Zhu, F., *JIoT April 1, 2021 5211-5218*
Zhang, C., Guo, Y., Jia, X., Wang, C., and Du, H., Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain; *JIoT April 15, 2021 6624-6636*
Zhang, C., see Gao, Y., *JIoT July 15, 2021 11100-11111*
Zhang, C., see Gu, Y., *JIoT Sept. 15, 2021 14051-14065*
Zhang, C., see Li, X., *JIoT Oct. 1, 2021 14959-14970*
Zhang, C., see Zhang, B., *JIoT Oct. 15, 2021 15140-15147*
Zhang, C., see Liu, Q., *JIoT Dec. 1, 2021 16835-16844*
Zhang, D., see Chen, Y., *JIoT Feb. 15, 2021 2762-2774*
Zhang, D., see Guo, L., *JIoT March 1, 2021 3851-3863*
Zhang, D., Hu, Y., and Chen, Y., MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals ; *JIoT March 1, 2021 3904-3914*
Zhang, D., see Guo, Z., *JIoT June 15, 2021 9549-9558*
Zhang, D., see Liu, Y., *JIoT Aug. 1, 2021 12231-12241*
Zhang, D., see Yu, B., *JIoT Sept. 15, 2021 13900-13913*
Zhang, D., see Xu, C., *JIoT Dec. 1, 2021 16902-16910*
Zhang, F., and Wang, M.M., Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing; *JIoT Jan. 15, 2021 778-790*
Zhang, F., see Wang, F., *JIoT Feb. 1, 2021 1294-1307*
Zhang, F., Yang, Q., and An, D., CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control; *JIoT March 1, 2021 3075-3087*
Zhang, F., see Zhang, J., *JIoT March 1, 2021 3323-3330*
Zhang, F., Wang, M.M., and Deng, R., On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X; *JIoT April 1, 2021 6101-6113*
Zhang, F., Wu, C., Wang, B., and Liu, K.J.R., mmEye: Super-Resolution Millimeter Wave Imaging; *JIoT April 15, 2021 6995-7008*
Zhang, F., see Zeng, X., *JIoT June 15, 2021 10131-10145*
Zhang, F., see Luo, H., *JIoT July 1, 2021 10884-10895*
Zhang, F., Han, G., Liu, L., Martinez-Garcia, M., and Peng, Y., Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks ; *JIoT Sept. 15, 2021 14156-14170*
Zhang, F., Wang, M.M., Bao, X., and Liu, W., Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X; *JIoT Nov. 15, 2021 16522-16534*
Zhang, G., Lu, D., and Liu, H., IoT-Based Positive Emotional Contagion for Crowd Evacuation; *JIoT Jan. 15, 2021 1057-1070*
Zhang, G., see Duan, W., *JIoT April 15, 2021 6154-6166*
Zhang, H., see Cai, Y., *JIoT Jan. 1, 2021 647-656*
Zhang, H., see Jiang, X., *JIoT Jan. 15, 2021 901-915*
Zhang, H., see Guo, W., *JIoT Feb. 1, 2021 1921-1933*
Zhang, H., see Fan, S., *JIoT Feb. 15, 2021 2252-2264*
Zhang, H., see Yang, L., *JIoT Feb. 15, 2021 2330-2341*
Zhang, H., see Gao, P., *JIoT March 1, 2021 3287-3299*
Zhang, H., see Liu, W., *JIoT March 15, 2021 4681-4696*
Zhang, H., see Xiao, Y., *JIoT March 15, 2021 4560-4568*
Zhang, H., see Yu, H., *JIoT April 1, 2021 5722-5735*
Zhang, H., Feng, J., Shi, Z., Ma, S., and Yang, G., Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems; *JIoT April 1, 2021 5632-5644*
Zhang, H., see Jin, X., *JIoT April 15, 2021 6324-6336*
Zhang, H., see Chatterjee, B., *JIoT April 15, 2021 6800-6814*
Zhang, H., see Liu, G., *JIoT April 15, 2021 6578-6590*
Zhang, H., see Kang, Y., *JIoT May 15, 2021 8488-8503*
Zhang, H., see Yang, L., *JIoT June 1, 2021 8854-8864*

- Zhang, H.**, see Debbah, M., *JIoT June 15, 2021 9774-9775*
- Zhang, H.**, Hu, Y., Wang, R., Li, Z., Zhang, P., and Xu, R., Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks; *JIoT July 1, 2021 10779-10791*
- Zhang, H.**, see Zhang, M., *JIoT July 15, 2021 11732-11742*
- Zhang, H.**, see Guo, F., *JIoT Aug. 1, 2021 11891-11915*
- Zhang, H.**, see Li, T., *JIoT Aug. 15, 2021 13039-13051*
- Zhang, H.**, see Cao, X., *JIoT Sept. 15, 2021 14171-14186*
- Zhang, H.**, Tong, L., Yu, J., and Lin, J., Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices; *JIoT Oct. 15, 2021 15596-15607*
- Zhang, H.**, see Qiu, Y., *JIoT Nov. 1, 2021 15875-15883*
- Zhang, H.**, see Zhan, C., *JIoT Nov. 1, 2021 15906-15918*
- Zhang, H.**, see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Zhang, H.**, see Shen, Y., *JIoT Dec. 1, 2021 16770-16778*
- Zhang, J.**, Xu, W., Gao, H., Pan, M., Han, Z., and Zhang, P., Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks; *JIoT Jan. 1, 2021 244-261*
- Zhang, J.**, see Li, G., *JIoT Jan. 1, 2021 357-369*
- Zhang, J.**, Xiao, W., and Li, Y., Data and Knowledge Twin Driven Integration for Large-Scale Device-Free Localization; *JIoT Jan. 1, 2021 320-331*
- Zhang, J.**, see Shi, H., *JIoT Jan. 1, 2021 381-392*
- Zhang, J.**, see Sharif, A., *JIoT Jan. 15, 2021 889-900*
- Zhang, J.**, Zhang, Y., Lu, K., Wang, J., Wu, K., Jia, X., and Liu, B., Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems; *JIoT Jan. 15, 2021 1140-1153*
- Zhang, J.**, see Xu, D., *JIoT Feb. 1, 2021 1519-1532*
- Zhang, J.**, Wang, Z., Ji, X., Xu, W., Qu, G., and Zhao, M., Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting; *JIoT Feb. 15, 2021 2992-2999*
- Zhang, J.**, Li, Y., Yu, Z.L., Gu, Z., Cheng, Y., and Gong, H., Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing; *JIoT Feb. 15, 2021 3027-3041*
- Zhang, J.**, see Xie, W., *JIoT Feb. 15, 2021 2931-2942*
- Zhang, J.**, Chen, B., Cheng, X., Binh, H.T.T., and Yu, S., PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems; *JIoT March 1, 2021 3310-3322*
- Zhang, J.**, Liu, P., Zhang, F., Iwabuchi, H., de Moura, A.A.d.H.e.A., and de Albuquerque, V.H.C., Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things; *JIoT March 1, 2021 3323-3330*
- Zhang, J.**, Li, Y., and Xiao, W., Integrated Multiple Kernel Learning for Device-Free Localization in Cluttered Environments Using Spatiotemporal Information; *JIoT March 15, 2021 4749-4761*
- Zhang, J.**, Wu, F., Wei, B., Zhang, Q., Huang, H., Shah, S.W., and Cheng, J., Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal; *JIoT March 15, 2021 4628-4641*
- Zhang, J.**, see Wei, J., *JIoT March 15, 2021 4353-4372*
- Zhang, J.**, Sha, J., Han, G., Liu, J., and Qian, Y., A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things; *JIoT March 15, 2021 4403-4416*
- Zhang, J.**, Wang, Y., Li, S., and Shi, S., An Architecture for IoT-Enabled Smart Transportation Security System: A Geospatial Approach; *JIoT April 15, 2021 6205-6213*
- Zhang, J.**, Wei, B., Wu, F., Dong, L., Hu, W., Kanhere, S.S., Luo, C., Yu, S., and Cheng, J., Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home; *JIoT May 1, 2021 7610-7624*
- Zhang, J.**, see Qian, Y., *JIoT May 1, 2021 7676-7690*
- Zhang, J.**, see Cui, J., *JIoT May 15, 2021 7925-7937*
- Zhang, J.**, see Zhang, X., *JIoT May 15, 2021 8234-8245*
- Zhang, J.**, and Tao, D., Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things; *JIoT May 15, 2021 7789-7817*
- Zhang, J.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Zhang, J.**, see Wu, S., *JIoT June 15, 2021 10085-10102*
- Zhang, J.**, see Huang, X., *JIoT July 1, 2021 10911-10921*
- Zhang, J.**, see Zhu, L., *JIoT Aug. 1, 2021 12106-12118*
- Zhang, J.**, see Guo, K., *JIoT Aug. 15, 2021 12623-12637*
- Zhang, J.**, see Li, M., *JIoT Sept. 15, 2021 13991-14002*
- Zhang, J.**, see Mo, Y., *JIoT Sept. 15, 2021 14039-14050*
- Zhang, J.**, see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Zhang, J.**, see Li, B., *JIoT Oct. 15, 2021 15303-15316*
- Zhang, J.**, see Liu, S., *JIoT Oct. 15, 2021 15170-15179*
- Zhang, J.**, see Cai, H., *JIoT Nov. 1, 2021 15829-15838*
- Zhang, J.**, see Wang, K., *JIoT Nov. 15, 2021 16666-16679*
- Zhang, J.**, see Wu, H., *JIoT Dec. 1, 2021 16972-16983*
- Zhang, J.**, see Xu, C., *JIoT Dec. 1, 2021 16902-16910*
- Zhang, J.**, see Zhong, H., *JIoT Dec. 15, 2021 17734-17746*
- Zhang, J.**, see Peng, H., *JIoT Dec. 15, 2021 17356-17371*
- Zhang, K.**, Peng, M., and Sun, Y., Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks; *JIoT Feb. 1, 2021 1347-1357*
- Zhang, K.**, see Lu, Y., *JIoT Feb. 15, 2021 2276-2288*
- Zhang, K.**, Gui, X., Ren, D., and Li, D., Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System; *JIoT April 15, 2021 6709-6719*
- Zhang, K.**, see Jiang, Y., *JIoT July 15, 2021 11163-11176*
- Zhang, K.**, Ying, H., Dai, H., Li, L., Peng, Y., Guo, K., and Yu, H., Compacting Deep Neural Networks for Internet of Things: Methods and Applications; *JIoT Aug. 1, 2021 11935-11959*
- Zhang, K.**, see Wu, Y., *JIoT Sept. 15, 2021 13789-13804*
- Zhang, K.**, see Su, Y., *JIoT Oct. 15, 2021 15639-15648*
- Zhang, K.**, see Shen, S., *JIoT Nov. 15, 2021 16269-16278*
- Zhang, K.**, see Xu, Q., *JIoT Nov. 15, 2021 16473-16485*
- Zhang, L.**, Ye, Y., and Mu, Y., Multiauthority Access Control With Anonymous Authentication for Personal Health Record; *JIoT Jan. 1, 2021 156-167*
- Zhang, L.**, see Gao, J., *JIoT Jan. 15, 2021 951-961*
- Zhang, L.**, see Wang, J., *JIoT Jan. 15, 2021 927-940*
- Zhang, L.**, see Xu, H., *JIoT March 1, 2021 3915-3929*
- Zhang, L.**, see Qu, Y., *JIoT May 1, 2021 7394-7406*
- Zhang, L.**, Lin, H., Wu, K., Lin, Y., and Tseng, Y., FusionTalk: An IoT-Based Reconfigurable Object Identification System; *JIoT May 1, 2021 7333-7345*
- Zhang, L.**, see Zhang, Y., *JIoT May 15, 2021 8223-8233*
- Zhang, L.**, Zhang, Y., Wang, B., Zheng, X., and Yang, L., WiCrowd: Counting the Directional Crowd With a Single Wireless Link; *JIoT May 15, 2021 8644-8656*
- Zhang, L.**, see Chen, T., *JIoT July 1, 2021 10766-10778*
- Zhang, L.**, see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Zhang, L.**, Wang, J., and Mu, Y., Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things; *JIoT Oct. 1, 2021 14731-14745*
- Zhang, L.**, Zhu, Y., Ren, W., Wang, Y., Choo, K.R., and Xiong, N.N., An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments; *JIoT Dec. 1, 2021 17120-17130*
- Zhang, L.**, see Rezaeibagha, F., *JIoT Dec. 15, 2021 17669-17677*
- Zhang, M.**, see Dai, C., *JIoT March 15, 2021 4855-4867*
- Zhang, M.**, Chen, Y., and Lin, J., A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment; *JIoT July 1, 2021 10830-10842*
- Zhang, M.**, see Yang, L., *JIoT July 15, 2021 11290-11304*
- Zhang, M.**, Zhang, H., and Yuan, D., Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks; *JIoT July 15, 2021 11732-11742*
- Zhang, M.**, see Zhang, M., *JIoT July 15, 2021 11732-11742*
- Zhang, M.**, see Yu, L., *JIoT Aug. 1, 2021 12046-12063*
- Zhang, M.**, Jia, J., Chen, J., Deng, Y., Wang, X., and Aghvami, A.H., Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks; *JIoT Sept. 1, 2021 13608-13623*
- Zhang, M.**, and Wang, W., Weighted Adaptive Partition for Heterogeneous IoT Data Stream; *JIoT Oct. 15, 2021 15240-15248*
- Zhang, M.**, see Li, T., *JIoT Dec. 1, 2021 16723-16733*
- Zhang, N.**, see Xu, D., *JIoT Feb. 1, 2021 1519-1532*
- Zhang, N.**, see Wang, Z., *JIoT Feb. 1, 2021 1585-1598*
- Zhang, N.**, see Ding, Y., *JIoT Feb. 1, 2021 1504-1518*
- Zhang, N.**, see He, W., *JIoT April 15, 2021 6293-6304*

- Zhang, N., see Wang, D., *JIoT June 1*, 2021 9330-9343
- Zhang, N., see Fu, S., *JIoT June 15*, 2021 10209-10219
- Zhang, N., see Sun, J., *JIoT June 15*, 2021 10034-10046
- Zhang, N., see Li, J., *JIoT July 15*, 2021 11219-11232
- Zhang, N., see Li, Y., *JIoT Nov. 15*, 2021 16370-16378
- Zhang, P., see Zhang, J., *JIoT Jan. 1*, 2021 244-261
- Zhang, P., Jiang, C., Pang, X., and Qian, Y., STEC-IoT: A Security Tactic by Virtualizing Edge Computing on IoT; *JIoT Feb. 15*, 2021 2459-2467
- Zhang, P., see Wu, D., *JIoT March 15*, 2021 4579-4589
- Zhang, P., see Sun, M., *JIoT May 15*, 2021 8005-8020
- Zhang, P., see Zhang, A., *JIoT May 15*, 2021 7874-7888
- Zhang, P., see Zhang, H., *JIoT July 1*, 2021 10779-10791
- Zhang, P., see Mercuri, M., *JIoT July 15*, 2021 11065-11077
- Zhang, P., see Chen, X., *JIoT Aug. 1*, 2021 12093-12105
- Zhang, P., see Zhao, D., *JIoT Aug. 15*, 2021 12855-12879
- Zhang, P., see Qin, X., *JIoT Oct. 1*, 2021 14501-14513
- Zhang, P., see Liu, L., *JIoT Dec. 1*, 2021 17057-17070
- Zhang, P., see Sun, M., *JIoT Dec. 15*, 2021 17275-17289
- Zhang, Q., Zhong, H., Cui, J., Ren, L., and Shi, W., AC4AV: A Flexible and Dynamic Access Control Framework for Connected and Autonomous Vehicles; *JIoT Feb. 1*, 2021 1946-1958
- Zhang, Q., see Xie, W., *JIoT Feb. 15*, 2021 2931-2942
- Zhang, Q., see Zhang, J., *JIoT March 15*, 2021 4628-4641
- Zhang, Q., see Huang, C., *JIoT March 15*, 2021 4291-4304
- Zhang, Q., see Lin, K., *JIoT April 1*, 2021 5264-5273
- Zhang, Q., see Liu, L., *JIoT April 15*, 2021 6469-6486
- Zhang, Q., see Cui, J., *JIoT May 15*, 2021 7925-7937
- Zhang, Q., Yang, H.H., Quek, T.Q.S., and Jin, S., Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints; *JIoT June 15*, 2021 10146-10159
- Zhang, Q., Wang, H., Feng, Z., and Han, Z., Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs; *JIoT June 15*, 2021 9995-10009
- Zhang, Q., Ma, W., Feng, Z., and Han, Z., Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things; *JIoT June 15*, 2021 10071-10084
- Zhang, Q., see Dai, C., *JIoT June 15*, 2021 9697-9705
- Zhang, Q., Xin, C., and Wu, H., Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey; *JIoT July 1*, 2021 10412-10429
- Zhang, Q., see Kang, H., *JIoT Sept. 1*, 2021 13503-13515
- Zhang, Q., see Fang, Z., *JIoT Oct. 1*, 2021 14559-14571
- Zhang, Q., see Jiao, J., *JIoT Oct. 1*, 2021 14773-14786
- Zhang, Q., see Wang, P., *JIoT Nov. 1*, 2021 15863-15874
- Zhang, Q., see Jiao, J., *JIoT Dec. 15*, 2021 17403-17416
- Zhang, Q., see Zhong, H., *JIoT Dec. 15*, 2021 17734-17746
- Zhang, Q., see Vestergaard, R., *JIoT Dec. 15*, 2021 17568-17583
- Zhang, R., see Chen, W., *JIoT Jan. 1*, 2021 501-511
- Zhang, R., see Liu, Y., *JIoT Jan. 1*, 2021 112-128
- Zhang, R., Jing, X., Wu, S., Jiang, C., Mu, J., and Yu, F.R., Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective; *JIoT Feb. 15*, 2021 2517-2539
- Zhang, R., see Li, B., *JIoT March 15*, 2021 4657-4667
- Zhang, R., see Wei, F., *JIoT April 1*, 2021 5599-5606
- Zhang, R., see Chen, T., *JIoT July 1*, 2021 10766-10778
- Zhang, R., see Wang, H., *JIoT Oct. 15*, 2021 15422-15440
- Zhang, R., see Chen, Z., *JIoT Nov. 15*, 2021 16279-16289
- Zhang, R., see Guo, X., *JIoT Dec. 15*, 2021 17802-17816
- Zhang, S., see Ding, X., *JIoT Jan. 15*, 2021 802-812
- Zhang, S., see Xi, Z., *JIoT Feb. 1*, 2021 1651-1661
- Zhang, S., see Xiong, M., *JIoT Feb. 15*, 2021 2875-2885
- Zhang, S., see Wang, J., *JIoT March 1*, 2021 3462-3475
- Zhang, S., see Yang, X., *JIoT March 15*, 2021 4980-4990
- Zhang, S., see Xu, J., *JIoT April 1*, 2021 5762-5777
- Zhang, S., see Zhang, Y., *JIoT May 15*, 2021 8223-8233
- Zhang, S., see Zuo, Y., *JIoT June 1*, 2021 9084-9098
- Zhang, S., Ray, S., Lu, R., Zheng, Y., and Shao, J., Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing; *JIoT June 1*, 2021 9139-9150
- Zhang, S., see Zhu, X., *JIoT June 15*, 2021 9763-9773
- Zhang, S., see Qiu, T., *JIoT June 15*, 2021 9473-9483
- Zhang, S., see Shi, W., *JIoT Oct. 1*, 2021 14572-14588
- Zhang, S., see Guan, Y., *JIoT Nov. 15*, 2021 16243-16255
- Zhang, S., see Li, J., *JIoT Nov. 15*, 2021 16313-16325
- Zhang, T., Shen, Z., Jin, J., Zheng, X., Tagami, A., and Cao, X., Achieving Democracy in Edge Intelligence: A Fog-Based Collaborative Learning Scheme; *JIoT Feb. 15*, 2021 2751-2761
- Zhang, T., see Qiu, H., *JIoT March 1*, 2021 3180-3188
- Zhang, T., see Wang, W., *JIoT April 1*, 2021 5274-5284
- Zhang, T., see He, Z., *JIoT June 15*, 2021 9706-9716
- Zhang, T., see Qiu, H., *JIoT July 1*, 2021 10327-10335
- Zhang, T., see Xu, C., *JIoT Sept. 1*, 2021 13528-13541
- Zhang, T., Xu, Y., Wang, S., Wen, M., and Wang, R., On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback; *JIoT Oct. 15*, 2021 15334-15348
- Zhang, T., Liu, M., Yuan, T., and Al-Nabhan, N., Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic; *JIoT Nov. 1*, 2021 16002-16013
- Zhang, W., see Huang, D., *JIoT Jan. 1*, 2021 585-595
- Zhang, W., Hong, Z., and Chen, W., Hierarchical Pricing Mechanism With Financial Stability for Decentralized Crowdsourcing: A Smart Contract Approach; *JIoT Jan. 15*, 2021 750-765
- Zhang, W., Yu, K., Wang, W., and Li, X., A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning; *JIoT Feb. 1*, 2021 1406-1416
- Zhang, W., Zhou, S., Peng, D., Yang, L., Li, F., and Yin, H., Understanding and Modeling of WiFi Signal-Based Indoor Privacy Protection; *JIoT Feb. 1*, 2021 2000-2010
- Zhang, W., Wang, J., Han, G., Huang, S., Feng, Y., and Shu, L., A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain; *JIoT Feb. 15*, 2021 2354-2363
- Zhang, W., see Chen, R., *JIoT March 15*, 2021 5062-5074
- Zhang, W., see Li, Y., *JIoT March 15*, 2021 4514-4525
- Zhang, W., see Huang, J., *JIoT April 1*, 2021 5531-5543
- Zhang, W., Lu, Q., Yu, Q., Li, Z., Liu, Y., Lo, S.K., Chen, S., Xu, X., and Zhu, L., Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT; *JIoT April 1*, 2021 5926-5937
- Zhang, W., see Zhong, X., *JIoT May 15*, 2021 8191-8209
- Zhang, W., Wen, Y., Tseng, K.J., and Jin, G., Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach; *JIoT May 15*, 2021 8021-8031
- Zhang, W., Elgendy, I.A., Hammad, M., Iliyasu, A.M., Du, X., Guizani, M., and El-Latif, A.A.A., Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems; *JIoT May 15*, 2021 8119-8132
- Zhang, W., see Chang, H., *JIoT June 15*, 2021 9865-9877
- Zhang, W., see Li, J., *JIoT July 15*, 2021 11150-11162
- Zhang, W., see Ding, Y., *JIoT Aug. 15*, 2021 12505-12517
- Zhang, W., see Cui, Z., *JIoT Aug. 15*, 2021 12540-12549
- Zhang, W., see Xiao, H., *JIoT Sept. 15*, 2021 13926-13938
- Zhang, W., see Guo, F., *JIoT Oct. 1*, 2021 15024-15036
- Zhang, W., see Wang, H., *JIoT Oct. 15*, 2021 15422-15440
- Zhang, W., Zhou, T., Lu, Q., Wang, X., Zhu, C., Sun, H., Wang, Z., Lo, S.K., and Wang, F., Dynamic-Fusion-Based Federated Learning for COVID-19 Detection; *JIoT Nov. 1*, 2021 15884-15891
- Zhang, W., see Hou, W., *JIoT Nov. 15*, 2021 16256-16268
- Zhang, W., see Liang, H., *JIoT Nov. 15*, 2021 16349-16358
- Zhang, X., see Mollah, M.B., *JIoT Jan. 1*, 2021 18-43
- Zhang, X., see Zhao, S., *JIoT Jan. 15*, 2021 1082-1094
- Zhang, X., see Wang, D., *JIoT Feb. 15*, 2021 2976-2991
- Zhang, X., see Gu, B., *JIoT March 1*, 2021 3066-3074
- Zhang, X., see Liu, J., *JIoT March 15*, 2021 4389-4402
- Zhang, X., see Zhou, R., *JIoT April 15*, 2021 6425-6436

- Zhang, X., Guo, D., An, K., Zheng, G., Chatzinotas, S., and Zhang, B., Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks; *JIoT April 15, 2021 7009-7023*
- Zhang, X., see Nguyen, S., *JIoT April 15, 2021 6928-6939*
- Zhang, X., see Zhao, H., *JIoT May 15, 2021 8064-8077*
- Zhang, X., Huang, C., Xu, C., Zhang, Y., Zhang, J., and Wang, H., Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids; *JIoT May 15, 2021 8234-8245*
- Zhang, X., see Zhao, S., *JIoT June 1, 2021 9030-9044*
- Zhang, X., see Zhao, S., *JIoT June 1, 2021 8883-8896*
- Zhang, X., see Niu, W., *JIoT June 15, 2021 9905-9919*
- Zhang, X., see Niu, W., *JIoT June 15, 2021 9905-9919*
- Zhang, X., Zhu, X., Bao, W., Yang, L.T., Wang, J., Yan, H., and Chen, H., Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things; *JIoT July 1, 2021 10264-10279*
- Zhang, X., Li, H., and Chung, H.S., Setup-Independent UHF RFID Sensing Technique Using Multidimensional Differential Measurement; *JIoT July 1, 2021 10509-10517*
- Zhang, X., Lu, R., Shao, J., Zhu, H., and Ghorbani, A.A., Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing; *JIoT July 15, 2021 11758-11772*
- Zhang, X., see Srivastava, G., *JIoT Aug. 15, 2021 12669-12678*
- Zhang, X., see Chen, D., *JIoT Sept. 1, 2021 13367-13383*
- Zhang, X., see Jia, R., *JIoT Sept. 15, 2021 14299-14307*
- Zhang, X., see Wang, Y., *JIoT Oct. 1, 2021 14999-15009*
- Zhang, X., see Wang, H., *JIoT Oct. 15, 2021 15422-15440*
- Zhang, X., Qi, H., and Han, L., Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things; *JIoT Oct. 15, 2021 15107-15116*
- Zhang, X., see Zhang, X., *JIoT Oct. 15, 2021 15107-15116*
- Zhang, X., see Zhao, B., *JIoT Dec. 15, 2021 17584-17595*
- Zhang, Y., see Zhang, J., *JIoT Jan. 15, 2021 1140-1153*
- Zhang, Y., Simsek, M., and Kantarci, B., Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms; *JIoT Feb. 1, 2021 1334-1346*
- Zhang, Y., see Lu, Y., *JIoT Feb. 15, 2021 2276-2288*
- Zhang, Y., see Yang, L., *JIoT Feb. 15, 2021 2318-2329*
- Zhang, Y., see Sheng, H., *JIoT Feb. 15, 2021 2193-2207*
- Zhang, Y., Mou, Z., Gao, F., Xing, L., Jiang, J., and Han, Z., Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs; *JIoT March 1, 2021 3786-3800*
- Zhang, Y., see Lin, J.C., *JIoT April 1, 2021 5340-5349*
- Zhang, Y., see Liu, R.W., *JIoT April 1, 2021 5374-5385*
- Zhang, Y., see Saini, A., *JIoT April 1, 2021 5914-5925*
- Zhang, Y., see Chen, Z., *JIoT April 1, 2021 5839-5849*
- Zhang, Y., see Shen, S., *JIoT April 1, 2021 5850-5865*
- Zhang, Y., see Chen, C., *JIoT April 1, 2021 5309-5320*
- Zhang, Y., see Liu, Y., *JIoT April 15, 2021 6348-6358*
- Zhang, Y., Yutaka, M., Sasabe, M., and Kasahara, S., Attribute-Based Access Control for Smart Cities: A Smart-Contract-Driven Framework; *JIoT April 15, 2021 6372-6384*
- Zhang, Y., see Liu, K., *JIoT April 15, 2021 6815-6827*
- Zhang, Y., see Liu, T., *JIoT April 15, 2021 6649-6664*
- Zhang, Y., see Liu, Y., *JIoT May 1, 2021 7450-7465*
- Zhang, Y., see Zhou, B., *JIoT May 1, 2021 7203-7213*
- Zhang, Y., see Madhukumar, N., *JIoT May 1, 2021 7270-7278*
- Zhang, Y., Tao, Y., Zhang, S., Zhang, L., and Long, H., Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship; *JIoT May 15, 2021 8223-8233*
- Zhang, Y., see Zhang, X., *JIoT May 15, 2021 8234-8245*
- Zhang, Y., see Zhang, L., *JIoT May 15, 2021 8644-8656*
- Zhang, Y., see Wang, L., *JIoT May 15, 2021 8097-8106*
- Zhang, Y., see Zuo, Y., *JIoT June 1, 2021 9084-9098*
- Zhang, Y., see Guo, R., *JIoT June 1, 2021 8949-8963*
- Zhang, Y., see Hu, H., *JIoT June 15, 2021 9539-9548*
- Zhang, Y., see Liao, Z., *JIoT June 15, 2021 9730-9739*
- Zhang, Y., see Zhou, P., *JIoT July 1, 2021 10237-10247*
- Zhang, Y., see Xu, X., *JIoT July 1, 2021 10596-10607*
- Zhang, Y., see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Zhang, Y., see Chen, D., *JIoT July 15, 2021 11415-11426*
- Zhang, Y., see Xu, J., *JIoT July 15, 2021 11450-11462*
- Zhang, Y., see Wang, Y., *JIoT Sept. 1, 2021 13640-13651*
- Zhang, Y., Li, B., Liu, B., Hu, Y., and Zheng, H., A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain; *JIoT Sept. 15, 2021 13958-13974*
- Zhang, Y., see Wu, Y., *JIoT Sept. 15, 2021 13789-13804*
- Zhang, Y., see Khan, F., *JIoT Oct. 1, 2021 14835-14844*
- Zhang, Y., see Yu, D., *JIoT Oct. 15, 2021 15160-15169*
- Zhang, Y., Chen, J., Guo, S., Yang, X., and Cui, G., Building Layout Tomographic Reconstruction via Commercial WiFi Signals; *JIoT Oct. 15, 2021 15500-15511*
- Zhang, Y., see Cai, H., *JIoT Nov. 1, 2021 15829-15838*
- Zhang, Y., see Jin, H., *JIoT Nov. 1, 2021 15776-15784*
- Zhang, Y., see Lu, Y., *JIoT Nov. 15, 2021 16219-16230*
- Zhang, Y., see Yu, C., *JIoT Nov. 15, 2021 16207-16218*
- Zhang, Y., see Liu, Y., *JIoT Dec. 1, 2021 17071-17089*
- Zhang, Y., see Duan, S., *JIoT Dec. 1, 2021 17147-17160*
- Zhang, Y., Sun, Y., Jin, R., Lin, K., and Liu, W., High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments; *JIoT Dec. 1, 2021 16872-16879*
- Zhang, Y., see Han, G., *JIoT Dec. 15, 2021 17747-17761*
- Zhang, Y.A., see Zheng, Y., *JIoT May 15, 2021 8399-8410*
- Zhang, Z., see Zhao, Y., *JIoT Jan. 1, 2021 393-406*
- Zhang, Z., see Li, G., *JIoT Jan. 1, 2021 357-369*
- Zhang, Z., see Chu, J., *JIoT Feb. 1, 2021 1959-1970*
- Zhang, Z., see Fu, F., *JIoT Feb. 1, 2021 1308-1321*
- Zhang, Z., see Yi, Y., *JIoT Feb. 15, 2021 2177-2192*
- Zhang, Z., see Zhao, N., *JIoT March 15, 2021 4711-4722*
- Zhang, Z., Yang, Y., Lv, Z., Gan, C., and Zhu, Q., LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy; *JIoT April 1, 2021 6012-6023*
- Zhang, Z., Deng, R., Yau, D.K.Y., and Cheng, P., Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid; *JIoT April 15, 2021 6608-6623*
- Zhang, Z., see Zhao, Y., *JIoT June 1, 2021 8865-8882*
- Zhang, Z., see Ning, H., *JIoT June 1, 2021 8680-8692*
- Zhang, Z., see Zeng, P., *JIoT July 1, 2021 10963-10972*
- Zhang, Z., see Chang, X., *JIoT Aug. 15, 2021 12892-12901*
- Zhang, Z., see Xiao, H., *JIoT Sept. 15, 2021 13926-13938*
- Zhang, Z., see Wang, Z., *JIoT Sept. 15, 2021 14003-14012*
- Zhang, Z., and Wang, S., Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things; *JIoT Oct. 15, 2021 15259-15266*
- Zhang, Z., see He, T., *JIoT Oct. 15, 2021 15486-15499*
- Zhang, Z., see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Zhang, Z., see Shang, J., *JIoT Nov. 15, 2021 16571-16584*
- Zhao, B., Liu, X., Chen, W., Liang, W., Zhang, X., and Deng, R.H., PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing; *JIoT Dec. 15, 2021 17584-17595*
- Zhao, C., Cai, L., and Cheng, P., Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses; *JIoT Jan. 1, 2021 262-277*
- Zhao, C., see Li, B., *JIoT Oct. 15, 2021 15303-15316*
- Zhao, C., see Liang, J., *JIoT Oct. 15, 2021 15276-15283*
- Zhao, C., see Tao, Y., *JIoT Oct. 15, 2021 15407-15421*
- Zhao, D., see Liu, Y., *JIoT May 1, 2021 7450-7465*
- Zhao, D., see Ding, L., *JIoT Aug. 1, 2021 12150-12162*
- Zhao, D., Yan, Z., Wang, M., Zhang, P., and Song, B., Is 5G Handover Secure and Private? A Survey; *JIoT Aug. 15, 2021 12855-12879*
- Zhao, D., see Liu, Y., *JIoT Dec. 1, 2021 17071-17089*
- Zhao, F., see Wang, Q., *JIoT Feb. 1, 2021 2011-2026*
- Zhao, F., see Zhu, Y., *JIoT Feb. 1, 2021 1544-1556*
- Zhao, F., see Yang, H., *JIoT April 15, 2021 6940-6948*
- Zhao, F., see Nie, X., *JIoT Oct. 15, 2021 15317-15333*

- Zhao, F.**, Xu, T., Jin, L., and Jin, H., Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion; *JIoT Dec. 1, 2021 16758-16769*
- Zhao, G.**, see Fan, Y., *JIoT June 1, 2021 9268-9277*
- Zhao, H.**, see Wang, S., *JIoT Jan. 1, 2021 572-584*
- Zhao, H.**, see Xu, X., *JIoT Feb. 15, 2021 2431-2443*
- Zhao, H.**, see Li, D., *JIoT May 15, 2021 8603-8615*
- Zhao, H.**, Zhang, X., Hu, J., Chen, Z.D., and Liang, Y., A Hybrid-Equivalent Surface-Edge Current Model for Simulation of V2X Communication Antennas With Arbitrarily Shaped Contour; *JIoT May 15, 2021 8064-8077*
- Zhao, H.**, see Ma, C., *JIoT June 1, 2021 9344-9358*
- Zhao, H.**, see Guo, D., *JIoT Aug. 1, 2021 12137-12149*
- Zhao, H.**, Yan, J., Luo, X., and Guan, X., Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution; *JIoT Sept. 15, 2021 14094-14109*
- Zhao, J.**, see Mollah, M.B., *JIoT Jan. 1, 2021 18-43*
- Zhao, J.**, see Zhao, Y., *JIoT Feb. 1, 2021 1817-1829*
- Zhao, J.**, see Ren, X., *JIoT Feb. 15, 2021 2775-2791*
- Zhao, J.**, see Cao, B., *JIoT March 1, 2021 3099-3107*
- Zhao, J.**, see Zhao, N., *JIoT March 15, 2021 4711-4722*
- Zhao, J.**, see Mollah, M.B., *JIoT March 15, 2021 4157-4185*
- Zhao, J.**, see Dai, C., *JIoT March 15, 2021 4855-4867*
- Zhao, J.**, see Zhao, Y., *JIoT June 1, 2021 8865-8882*
- Zhao, J.**, see Zhao, Y., *JIoT June 1, 2021 8836-8853*
- Zhao, J.**, see Wang, Q., *JIoT June 1, 2021 9436-9449*
- Zhao, J.**, see Chen, K., *JIoT June 15, 2021 10103-10116*
- Zhao, J.**, see Chen, B., *JIoT July 1, 2021 10248-10263*
- Zhao, J.**, see Xu, Y., *JIoT July 15, 2021 11427-11439*
- Zhao, J.**, see Xi, W., *JIoT Aug. 15, 2021 12758-12770*
- Zhao, K.**, see Xi, W., *JIoT Aug. 15, 2021 12758-12770*
- Zhao, L.**, see Bi, X., *JIoT Feb. 1, 2021 1282-1293*
- Zhao, L.**, Liu, Y., Al-Dubai, A.Y., Zomaya, A.Y., Min, G., and Hawbani, A., A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks; *JIoT Feb. 1, 2021 2066-2077*
- Zhao, L.**, see Shah, H.A., *JIoT March 1, 2021 3410-3421*
- Zhao, L.**, Huang, H., Su, C., Ding, S., Huang, H., Tan, Z., and Li, Z., Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment; *JIoT March 1, 2021 3211-3223*
- Zhao, L.**, Pop, P., Gong, Z., and Fang, B., Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets; *JIoT April 1, 2021 5574-5584*
- Zhao, L.**, Li, F., and Valero, M., Hybrid Decentralized Data Analytics in Edge-Computing-Empowered IoT Networks; *JIoT May 1, 2021 7706-7716*
- Zhao, L.**, see Gamaleldin, M., *JIoT June 1, 2021 9373-9382*
- Zhao, L.**, see Hawbani, A., *JIoT June 1, 2021 8976-8989*
- Zhao, L.**, see Peng, S., *JIoT July 1, 2021 10815-10829*
- Zhao, L.**, see Lin, N., *JIoT Sept. 15, 2021 14080-14093*
- Zhao, M.**, see Zhang, J., *JIoT Feb. 15, 2021 2992-2999*
- Zhao, M.**, see Wu, S., *JIoT June 15, 2021 10085-10102*
- Zhao, N.**, Zhang, Z., Yang, X., Ren, A., Zhao, J., and Rehman, M.U., Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization; *JIoT March 15, 2021 4711-4722*
- Zhao, N.**, see Wang, D., *JIoT June 1, 2021 9294-9304*
- Zhao, N.**, see Liu, H., *JIoT Oct. 1, 2021 14458-14470*
- Zhao, N.**, see Lu, W., *JIoT Oct. 15, 2021 15070-15080*
- Zhao, P.**, see Cui, Z., *JIoT Aug. 15, 2021 12540-12549*
- Zhao, Q.**, see Yao, S., *JIoT April 1, 2021 6062-6076*
- Zhao, Q.**, see Lin, N., *JIoT Sept. 15, 2021 14080-14093*
- Zhao, S.**, see Chen, W., *JIoT Jan. 1, 2021 501-511*
- Zhao, S.**, Zhang, X., Cui, X., and Lu, M., A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems; *JIoT Jan. 15, 2021 1082-1094*
- Zhao, S.**, see Li, B., *JIoT March 15, 2021 4657-4667*
- Zhao, S.**, Zhang, X., Cui, X., and Lu, M., A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network; *JIoT June 1, 2021 9030-9044*
- Zhao, S.**, Zhang, X., Cui, X., and Lu, M., Optimal Localization With Sequential Pseudorange Measurements for Moving Users in a Time-Division Broadcast Positioning System; *JIoT June 1, 2021 8883-8896*
- Zhao, S.**, see Wen, P., *JIoT June 1, 2021 9045-9058*
- Zhao, S.**, see Long, Y., *JIoT July 1, 2021 10896-10910*
- Zhao, S.**, see Hu, D., *JIoT July 15, 2021 11487-11502*
- Zhao, S.**, see Yu, H., *JIoT Nov. 1, 2021 16096-16107*
- Zhao, W.**, see Yu, W., *JIoT March 1, 2021 3053-3056*
- Zhao, W.**, Jiang, C., Gao, H., Yang, S., and Luo, X., Blockchain-Enabled Cyber-Physical Systems: A Review; *JIoT March 15, 2021 4023-4034*
- Zhao, W.**, see Liu, K., *JIoT April 15, 2021 6815-6827*
- Zhao, X.**, see Yue, Y., *JIoT Jan. 15, 2021 1183-1196*
- Zhao, X.**, and Zhu, Q., Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks; *JIoT April 1, 2021 6024-6038*
- Zhao, X.**, see Liao, H., *JIoT April 1, 2021 5250-5263*
- Zhao, X.**, see Yang, J., *JIoT July 1, 2021 10693-10705*
- Zhao, X.**, see Zhang, B., *JIoT Oct. 15, 2021 15140-15147*
- Zhao, Y.**, Zhang, Z., Feng, T., Wong, W., and Garg, H.K., GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data; *JIoT Jan. 1, 2021 393-406*
- Zhao, Y.**, Zhao, J., Jiang, L., Tan, R., Niyato, D., Li, Z., Lyu, L., and Liu, Y., Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices; *JIoT Feb. 1, 2021 1817-1829*
- Zhao, Y.**, see Wu, H., *JIoT Feb. 15, 2021 2163-2176*
- Zhao, Y.**, see Zhu, Z., *JIoT March 1, 2021 3831-3850*
- Zhao, Y.**, Li, Z., Cheng, N., Hao, B., and Shen, X., Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network; *JIoT March 15, 2021 4841-4854*
- Zhao, Y.**, Gao, R., Liu, S., Xie, L., Wu, J., Tu, H., and Chen, B., Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment; *JIoT April 1, 2021 5619-5631*
- Zhao, Y.**, Zhao, J., Kang, J., Zhang, Z., Niyato, D., Shi, S., and Lam, K., A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost; *JIoT June 1, 2021 8865-8882*
- Zhao, Y.**, Zhao, J., Yang, M., Wang, T., Wang, N., Lyu, L., Niyato, D., and Lam, K., Local Differential Privacy-Based Federated Learning for Internet of Things; *JIoT June 1, 2021 8836-8853*
- Zhao, Y.**, see Hu, H., *JIoT June 15, 2021 9539-9548*
- Zhao, Y.**, Wang, X., He, Q., Yi, B., Huang, M., and Cheng, W., Power-Efficient Software-Defined Data Center Network; *JIoT June 15, 2021 10018-10033*
- Zhao, Y.**, see Xu, G., *JIoT June 15, 2021 9559-9567*
- Zhao, Y.**, Li, X., Wu, H., and Xu, C., Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network; *JIoT Sept. 1, 2021 13750-13762*
- Zhao, Y.**, see Xiong, H., *JIoT Nov. 1, 2021 16142-16152*
- Zhao, Y.**, Xu, K., Wang, H., Li, B., Qiao, M., and Shi, H., MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities; *JIoT Dec. 1, 2021 16933-16945*
- Zhao, Z.**, see Zhu, Z., *JIoT March 1, 2021 3831-3850*
- Zhao, Z.**, see Wang, H., *JIoT April 1, 2021 5230-5239*
- Zhaofeng, M.**, Jialin, M., Jihui, W., and Zhiguang, S., Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment; *JIoT Feb. 15, 2021 2116-2123*
- Zhen, L.**, Bashir, A.K., Yu, K., Al-Otaibi, Y.D., Foh, C.H., and Xiao, P., Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things; *JIoT April 1, 2021 5114-5128*
- Zhen, Y.**, see Wang, R., *JIoT June 1, 2021 8964-8975*
- Zheng, D.**, Gu, H., Wei, W., Peng, C., and Cao, X., Network Service Chaining and Embedding With Provable Bounds; *JIoT May 1, 2021 7140-7151*
- Zheng, D.**, see Guo, R., *JIoT June 1, 2021 8949-8963*
- Zheng, D.**, see Lai, C., *JIoT July 1, 2021 10619-10630*
- Zheng, G.**, see Zhang, X., *JIoT April 15, 2021 7009-7023*
- Zheng, H.**, Xiong, K., Fan, P., Zhong, Z., Ding, Z., and Letaief, K.B., Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers; *JIoT March 15, 2021 4802-4815*
- Zheng, H.**, see Hu, D., *JIoT July 15, 2021 11487-11502*

- Zheng, H.**, see Zhang, Y., *JIoT Sept. 15, 2021 13958-13974*
- Zheng, H.**, see Qian, K., *JIoT Nov. 1, 2021 16035-16046*
- Zheng, J.**, Chen, R., Yang, T., Liu, X., Liu, H., Su, T., and Wan, L., An Efficient Strategy for Accurate Detection and Localization of UAV Swarms ; *JIoT Oct. 15, 2021 15372-15381*
- Zheng, K.**, see Hou, L., *JIoT Feb. 15, 2021 2419-2430*
- Zheng, K.**, see Lei, L., *JIoT May 15, 2021 7938-7953*
- Zheng, L.**, see Yan, Y., *JIoT April 15, 2021 6789-6799*
- Zheng, L.**, see Xia, D., *JIoT July 15, 2021 11666-11677*
- Zheng, L.**, see Xiao, G., *JIoT Aug. 15, 2021 12748-12757*
- Zheng, M.**, see Shi, H., *JIoT Jan. 1, 2021 381-392*
- Zheng, N.**, see Cheng, X., *JIoT June 1, 2021 9109-9121*
- Zheng, Q.**, see Qiu, H., *JIoT March 1, 2021 3180-3188*
- Zheng, R.**, see Jin, R., *JIoT July 1, 2021 10755-10765*
- Zheng, S.**, see Ma, Y., *JIoT April 1, 2021 5822-5838*
- Zheng, T.**, see Zhou, B., *JIoT May 1, 2021 7203-7213*
- Zheng, T.**, see Wang, C., *JIoT Aug. 15, 2021 13024-13038*
- Zheng, X.**, see Zhang, T., *JIoT Feb. 15, 2021 2751-2761*
- Zheng, X.**, see Li, Y., *JIoT April 15, 2021 6178-6186*
- Zheng, X.**, see Guo, X., *JIoT April 15, 2021 6665-6676*
- Zheng, X.**, see Zhang, L., *JIoT May 15, 2021 8644-8656*
- Zheng, X.**, see Yu, Y., *JIoT June 1, 2021 9359-9372*
- Zheng, X.**, see Xu, G., *JIoT June 15, 2021 9559-9567*
- Zheng, X.**, see Gao, Y., *JIoT July 15, 2021 11100-11111*
- Zheng, Y.**, Bi, S., Zhang, Y.A., Lin, X., and Wang, H., Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs; *JIoT May 15, 2021 8399-8410*
- Zheng, Y.**, see Jiang, T., *JIoT June 1, 2021 8799-8815*
- Zheng, Y.**, see Zhang, S., *JIoT June 1, 2021 9139-9150*
- Zheng, Y.**, see Zhou, W., *JIoT July 15, 2021 11621-11639*
- Zheng, Y.**, see Wang, Y., *JIoT Sept. 1, 2021 13664-13676*
- Zheng, Y.**, see Guan, Y., *JIoT Sept. 15, 2021 14219-14231*
- Zheng, Y.**, see Zhan, C., *JIoT Nov. 1, 2021 15906-15918*
- Zheng, Y.**, see Guan, Y., *JIoT Nov. 15, 2021 16243-16255*
- Zheng, Z.**, see Jia, R., *JIoT March 15, 2021 4697-4710*
- Zheng, Z.**, see Zhu, F., *JIoT April 1, 2021 5211-5218*
- Zheng, Z.**, see Huang, F., *JIoT April 15, 2021 6197-6204*
- Zheng, Z.**, see Jia, R., *JIoT Sept. 15, 2021 14299-14307*
- Zhi, X.**, see Wang, W., *JIoT April 1, 2021 5274-5284*
- Zhiguang, S.**, see Zhaofeng, M., *JIoT Feb. 15, 2021 2116-2123*
- Zhong, C.**, see Chu, J., *JIoT Feb. 1, 2021 1959-1970*
- Zhong, C.**, see Xu, J., *JIoT April 1, 2021 5762-5777*
- Zhong, H.**, see Cheng, Y., *JIoT Jan. 1, 2021 144-155*
- Zhong, H.**, see Zhang, Q., *JIoT Feb. 1, 2021 1946-1958*
- Zhong, H.**, see Cui, J., *JIoT May 15, 2021 7925-7937*
- Zhong, H.**, Cao, W., Zhang, Q., Zhang, J., and Cui, J., Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV; *JIoT Dec. 15, 2021 17734-17746*
- Zhong, R.**, see Liu, L., *JIoT April 15, 2021 6469-6486*
- Zhong, S.**, and Wang, X., Transmission Scheduling for Hybrid Backscatter-HTTP Nodes ; *JIoT Feb. 1, 2021 1769-1782*
- Zhong, X.**, Wang, X., Li, L., Yang, Y., Qin, Y., Yang, T., Zhang, B., and Zhang, W., CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC; *JIoT May 15, 2021 8191-8209*
- Zhong, Y.**, Wang, J., Wu, S., Jiang, T., Huang, Y., and Wu, Q., Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach; *JIoT Oct. 15, 2021 15148-15159*
- Zhong, Z.**, see Zheng, H., *JIoT March 15, 2021 4802-4815*
- Zhong, Z.**, Lin, C., Kanai-Pak, M., Maeda, J., Kitajima, Y., Nakamura, M., Kuwahara, N., Ogata, T., and Ota, J., Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network; *JIoT Dec. 1, 2021 17000-17013*
- Zhou, A.**, see Ma, X., *JIoT Aug. 15, 2021 13115-13125*
- Zhou, A.**, see Li, Y., *JIoT Nov. 15, 2021 16370-16378*
- Zhou, B.**, see Li, S., *JIoT Feb. 15, 2021 2920-2930*
- Zhou, B.**, see Mamvong, J.N., *JIoT April 1, 2021 5498-5509*
- Zhou, B.**, Zheng, T., Huang, J., Zhang, Y., Tu, W., Li, Q., and Deng, M., A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories; *JIoT May 1, 2021 7203-7213*
- Zhou, B.**, see Park, T., *JIoT May 15, 2021 8437-8455*
- Zhou, B.**, see Smerdov, A., *JIoT Nov. 15, 2021 16680-16691*
- Zhou, C.**, and Wang, B., Online Collaborative Localization; *JIoT Feb. 15, 2021 2712-2721*
- Zhou, C.**, see Shi, W., *JIoT June 15, 2021 9800-9813*
- Zhou, D.**, see Zhu, Y., *JIoT May 1, 2021 7126-7139*
- Zhou, F.**, see Xiao, C., *JIoT April 1, 2021 5669-5681*
- Zhou, H.**, see Huang, X., *JIoT Jan. 1, 2021 610-625*
- Zhou, H.**, see Wang, Z., *JIoT Feb. 1, 2021 1585-1598*
- Zhou, H.**, see Lai, C., *JIoT July 1, 2021 10619-10630*
- Zhou, H.**, see Xu, Y., *JIoT July 15, 2021 11427-11439*
- Zhou, H.**, see Yu, Q., *JIoT Nov. 15, 2021 16191-16194*
- Zhou, J.**, see Li, Z., *JIoT Jan. 15, 2021 844-859*
- Zhou, J.**, see Chen, L., *JIoT May 15, 2021 7863-7873*
- Zhou, J.**, Tian, D., Sheng, Z., Duan, X., and Shen, X., Distributed Task Offloading Optimization With Queueing Dynamics in Multiagent Mobile-Edge Computing Networks; *JIoT Aug. 1, 2021 12311-12328*
- Zhou, J.**, Jiang, X., Yu, W., Zhu, H., Lo, O., Gouskova, N.A., Travison, T., Lipsitz, L.A., Pascual-Leone, A., and Manor, B., A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond; *JIoT Nov. 1, 2021 15818-15828*
- Zhou, L.**, see Song, Y., *JIoT March 15, 2021 4250-4274*
- Zhou, L.**, see Ma, L., *JIoT April 15, 2021 6757-6770*
- Zhou, L.**, see Wu, D., *JIoT May 1, 2021 7346-7359*
- Zhou, L.**, see Jiang, Y., *JIoT July 15, 2021 11163-11176*
- Zhou, L.**, see Ge, C., *JIoT Aug. 15, 2021 12481-12489*
- Zhou, L.**, see Chen, X., *JIoT Oct. 15, 2021 15180-15190*
- Zhou, M.**, see Han, H., *JIoT Feb. 15, 2021 3042-3052*
- Zhou, M.**, see Bi, J., *JIoT March 1, 2021 3774-3785*
- Zhou, M.**, see Yang, S., *JIoT April 1, 2021 5607-5618*
- Zhou, M.**, see Xiao, W., *JIoT April 15, 2021 6305-6312*
- Zhou, M.**, see Cheng, J., *JIoT May 1, 2021 7521-7530*
- Zhou, M.**, see Zhu, X., *JIoT Oct. 15, 2021 15582-15595*
- Zhou, M.**, Li, X., Wang, Y., Li, S., Ding, Y., and Nie, W., 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation; *JIoT Oct. 15, 2021 15117-15125*
- Zhou, M.**, see Yang, S., *JIoT Dec. 15, 2021 17320-17332*
- Zhou, P.**, see Wang, Q., *JIoT April 15, 2021 6853-6864*
- Zhou, P.**, see Xue, Z., *JIoT June 1, 2021 9122-9138*
- Zhou, P.**, Shen, K., Kumar, N., Zhang, Y., Hassan, M.M., and Hwang, K., Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks ; *JIoT July 1, 2021 10237-10247*
- Zhou, Q.**, see Liu, M., *JIoT April 1, 2021 5585-5598*
- Zhou, Q.**, Qu, Z., Guo, S., Luo, B., Guo, J., Xu, Z., and Akerkar, R., On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective; *JIoT Aug. 1, 2021 11916-11934*
- Zhou, R.**, Zhang, X., Wang, X., Yang, G., Guizani, N., and Du, X., Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities; *JIoT April 15, 2021 6425-6436*
- Zhou, S.**, see Zhang, W., *JIoT Feb. 1, 2021 2000-2010*
- Zhou, S.**, see Faulkner, E., *JIoT June 1, 2021 9206-9218*
- Zhou, S.**, Jiang, Z., Pappas, N., Ephremides, A., and DaSilva, L.A., Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT; *JIoT Oct. 1, 2021 14431-14434*
- Zhou, S.**, see Jiang, H., *JIoT Oct. 1, 2021 14658-14671*
- Zhou, T.**, see Xiao, G., *JIoT Aug. 15, 2021 12748-12757*
- Zhou, T.**, see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Zhou, T.**, see Yu, J., *JIoT Nov. 15, 2021 16498-16509*
- Zhou, T.**, see Wu, H., *JIoT Dec. 1, 2021 16972-16983*
- Zhou, W.**, Cao, C., Huo, D., Cheng, K., Zhang, L., Guan, L., Liu, T., Jia, Y., Zheng, Y., Zhang, Y., Sun, L., Wang, Y., and Liu, P., Reviewing IoT Security via Logic Bugs in IoT Platforms and Systems; *JIoT July 15, 2021 11621-11639*

- Zhou, X., see Bi, X., *JIoT Feb. 1, 2021 1282-1293*
- Zhou, X., see Fan, Q., *JIoT April 1, 2021 5518-5530*
- Zhou, X., Hu, A., Li, G., Peng, L., Xing, Y., and Yu, J., A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition; *JIoT July 15, 2021 11276-11289*
- Zhou, X., Xu, X., Liang, W., Zeng, Z., and Yan, Z., Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT; *JIoT Aug. 15, 2021 12588-12596*
- Zhou, X., see Li, T., *JIoT Aug. 15, 2021 13039-13051*
- Zhou, X., see Luo, W., *JIoT Aug. 15, 2021 12650-12657*
- Zhou, X., see Ding, Y., *JIoT Aug. 15, 2021 12505-12517*
- Zhou, Y., see Cai, Z., *JIoT Jan. 1, 2021 418-427*
- Zhou, Y., see Wang, Z., *JIoT Feb. 1, 2021 1585-1598*
- Zhou, Y., see Cui, L., *JIoT Feb. 15, 2021 2395-2408*
- Zhou, Y., see Li, Y., *JIoT April 15, 2021 6178-6186*
- Zhou, Y., Cao, T., and Xiang, W., Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks; *JIoT May 15, 2021 8173-8190*
- Zhou, Y., see Xu, J., *JIoT Oct. 1, 2021 14971-14984*
- Zhou, Y., see Li, B., *JIoT Oct. 1, 2021 14485-14500*
- Zhou, Y., see Qi, Y., *JIoT Dec. 15, 2021 17762-17777*
- Zhou, Z., see Yu, S., *JIoT Feb. 15, 2021 2238-2251*
- Zhou, Z., see Jin, H., *JIoT Feb. 15, 2021 2444-2458*
- Zhou, Z., see Liao, H., *JIoT April 1, 2021 5250-5263*
- Zhou, Z., see Li, X., *JIoT Aug. 1, 2021 12176-12188*
- Zhou, Z., see Xu, C., *JIoT Sept. 1, 2021 13528-13541*
- Zhou, Z., see Li, R., *JIoT Oct. 1, 2021 14471-14484*
- Zhou, Z., see Cao, Y., *JIoT Dec. 15, 2021 17449-17459*
- Zhu, A., see Ma, M., *JIoT Aug. 1, 2021 11877-11890*
- Zhu, B., see Xue, K., *JIoT March 15, 2021 4305-4316*
- Zhu, B., Bedeer, E., Nguyen, H.H., Barton, R., and Henry, J., Improved Soft- k -Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks; *JIoT March 15, 2021 4868-4881*
- Zhu, C., Chiang, Y., Xiao, Y., and Ji, Y., FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network; *JIoT May 1, 2021 7625-7637*
- Zhu, C., see Fan, Y., *JIoT June 1, 2021 9268-9277*
- Zhu, C., see Tai, Y., *JIoT Nov. 1, 2021 15965-15976*
- Zhu, C., see Zhang, W., *JIoT Nov. 1, 2021 15884-15891*
- Zhu, C., see Cao, Y., *JIoT Dec. 15, 2021 17449-17459*
- Zhu, D., Sun, Y., Du, H., Cao, N., Baker, T., and Srivastava, G., HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT; *JIoT March 1, 2021 3201-3210*
- Zhu, D., see Wang, X., *JIoT Dec. 15, 2021 17639-17654*
- Zhu, F., see Huang, S., *JIoT Feb. 1, 2021 2051-2065*
- Zhu, F., Zhang, C., Zheng, Z., and Farouk, A., Practical Network Coding Technologies and Softwarization in Wireless Networks; *JIoT April 1, 2021 5211-5218*
- Zhu, F., Yi, X., Abuadba, A., Khalil, I., Nepal, S., and Huang, X., Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT; *JIoT July 15, 2021 11678-11689*
- Zhu, H., see Yang, M., *JIoT Feb. 1, 2021 1572-1584*
- Zhu, H., see Xu, J., *JIoT April 1, 2021 5762-5777*
- Zhu, H., see Ma, L., *JIoT April 15, 2021 6757-6770*
- Zhu, H., see Qu, Y., *JIoT May 1, 2021 7394-7406*
- Zhu, H., see Zhang, X., *JIoT July 15, 2021 11758-11772*
- Zhu, H., see Yang, M., *JIoT Sept. 1, 2021 13690-13702*
- Zhu, H., see Zhou, J., *JIoT Nov. 1, 2021 15818-15828*
- Zhu, H., see Hu, H., *JIoT Dec. 15, 2021 17541-17556*
- Zhu, J., see Xiong, M., *JIoT Feb. 15, 2021 2875-2885*
- Zhu, J., see Cai, L., *JIoT Feb. 15, 2021 3014-3026*
- Zhu, J., see Ma, C., *JIoT June 1, 2021 9344-9358*
- Zhu, J., see Wu, S., *JIoT June 15, 2021 10085-10102*
- Zhu, J., Lou, X., and Ye, W., Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition; *JIoT Aug. 1, 2021 12350-12359*
- Zhu, J., Huang, X., Gao, X., Shao, Z., and Yang, Y., Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling; *JIoT Sept. 1, 2021 13542-13554*
- Zhu, J., see Eid, A., *JIoT Oct. 1, 2021 14719-14730*
- Zhu, K., see Ji, J., *JIoT Feb. 1, 2021 1557-1571*
- Zhu, K., see Huang, Z., *JIoT April 15, 2021 6385-6392*
- Zhu, K., see Ji, J., *JIoT May 15, 2021 8570-8584*
- Zhu, K., Zhang, A., and Niyato, D., Cost-Effective Active Sparse Urban Sensing: Adversarial Autoencoder Approach; *JIoT Aug. 1, 2021 12064-12078*
- Zhu, K., see Chang, X., *JIoT Aug. 15, 2021 52892-12901*
- Zhu, L., and Hill, D.J., Cost-Effective Bad Synchrophasor Data Detection Based on Unsupervised Time-Series Data Analytic; *JIoT Feb. 1, 2021 2027-2039*
- Zhu, L., see Liu, Y., *JIoT Feb. 1, 2021 1322-1333*
- Zhu, L., see Shen, M., *JIoT Feb. 15, 2021 2265-2275*
- Zhu, L., see Jiang, P., *JIoT March 15, 2021 5031-5044*
- Zhu, L., see Zhang, W., *JIoT April 1, 2021 5926-5937*
- Zhu, L., Gu, W., Yi, J., Luan, T.H., and Li, C., On Mobility-Aware and Channel-Randomness-Adaptive Optimal Neighbor Discovery for Vehicular Networks; *JIoT April 15, 2021 6828-6839*
- Zhu, L., and Lin, J., Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid; *JIoT May 1, 2021 7589-7599*
- Zhu, L., Tang, X., Shen, M., Gao, F., Zhang, J., and Du, X., Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios; *JIoT Aug. 1, 2021 12106-12118*
- Zhu, M., see Pu, Z., *JIoT Jan. 1, 2021 474-486*
- Zhu, M., see Wang, F., *JIoT April 1, 2021 5321-5331*
- Zhu, Q., see Zhao, X., *JIoT April 1, 2021 6024-6038*
- Zhu, Q., see Zhang, Z., *JIoT April 1, 2021 6012-6023*
- Zhu, Q., see Saini, A., *JIoT April 1, 2021 5914-5925*
- Zhu, Q., see Choi, H., *JIoT April 15, 2021 6692-6708*
- Zhu, Q., Tian, X., Wong, C., and Wu, M., Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG; *JIoT Dec. 1, 2021 16734-16748*
- Zhu, R., Li, S., Wang, P., Xu, M., and Yu, S., Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing; *JIoT Aug. 1, 2021 12410-12421*
- Zhu, S., see Wang, X., *JIoT May 15, 2021 8464-8473*
- Zhu, S., see Lyu, L., *JIoT May 15, 2021 7889-7901*
- Zhu, S., see Gao, R., *JIoT Aug. 15, 2021 12955-12967*
- Zhu, W., see Yan, Y., *JIoT May 15, 2021 8159-8172*
- Zhu, W., see Lin, Z., *JIoT July 15, 2021 11123-11134*
- Zhu, X., see Sharif, A., *JIoT Jan. 15, 2021 889-900*
- Zhu, X., see You, W., *JIoT Jan. 15, 2021 695-707*
- Zhu, X., see Wang, T., *JIoT March 1, 2021 3369-3383*
- Zhu, X., Luo, Y., Liu, A., Bhuiyan, M.Z.A., and Zhang, S., Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT; *JIoT June 15, 2021 9763-9773*
- Zhu, X., see Zhang, X., *JIoT July 1, 2021 10264-10279*
- Zhu, X., and Zhou, M., Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing ; *JIoT Oct. 15, 2021 15582-15595*
- Zhu, Y., Luo, H., Zhao, F., and Chen, R., Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM; *JIoT Feb. 1, 2021 1544-1556*
- Zhu, Y., Gong, S., Chi, K., Li, Y., and Fang, Y., Optimizing Superframe and Data Buffer to Achieve Maximum Throughput for 802.15.4-Based Energy Harvesting Wireless Sensor Networks; *JIoT March 1, 2021 3689-3704*
- Zhu, Y., see Liu, T., *JIoT April 15, 2021 6649-6664*
- Zhu, Y., Bai, W., Sheng, M., Li, J., Zhou, D., and Han, Z., Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization; *JIoT May 1, 2021 7126-7139*
- Zhu, Y., see Chen, D., *JIoT Nov. 15, 2021 16301-16312*
- Zhu, Y., see Zhang, L., *JIoT Dec. 1, 2021 17120-17130*
- Zhu, Z., Wang, N., Hao, W., Wang, Z., and Lee, I., Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model; *JIoT Feb. 1, 2021 1702-1715*

- Zhu, Z.**, Chen, B., Liu, W., Zhao, Y., Liu, Z., and Zhao, Z., A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs; *JIoT March 1, 2021 3831-3850*
- Zhu, Z.**, see Hua, M., *JIoT May 1, 2021 7691-7705*
- Zhu, Z.**, see Hao, W., *JIoT Aug. 15, 2021 13052-13064*
- Zhuang, W.**, see Cai, Z., *JIoT Jan. 1, 2021 418-427*
- Zhuang, W.**, see Gao, J., *JIoT June 15, 2021 9958-9969*
- Zhuang, W.**, see Gao, J., *JIoT June 15, 2021 9945-9957*
- Zhuang, W.**, see Li, J., *JIoT July 15, 2021 11219-11232*
- Zhuang, W.**, see Yan, S., *JIoT Nov. 15, 2021 16326-16336*
- Zhuang, W.**, see Li, J., *JIoT Nov. 15, 2021 16313-16325*
- Zhuang, Y.**, see Xu, Y., *JIoT Feb. 1, 2021 1716-1727*
- Zhuang, Y.**, see Huang, C., *JIoT March 1, 2021 3331-3345*
- Zhuang, Y.**, see Li, Y., *JIoT March 15, 2021 4035-4062*
- Zhuang, Z.**, see Chen, D., *JIoT Jan. 15, 2021 813-828*
- Zhuang, Z.**, Wang, J., Qi, Q., Liao, J., and Han, Z., Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains; *JIoT Feb. 15, 2021 2208-2225*
- Zhuo, B.**, see Duan, W., *JIoT April 15, 2021 6154-6166*
- Zhuo, X.**, see Liu, M., *JIoT June 1, 2021 8990-9004*
- Zielonka, A.**, see Wozniak, M., *JIoT April 1, 2021 5442-5452*
- Zolanvari, M.**, see Ghubaish, A., *JIoT June 1, 2021 8707-8718*
- Zomaya, A.Y.**, see Zhao, L., *JIoT Feb. 1, 2021 2066-2077*
- Zomaya, A.Y.**, see Sooriyaarachchi, J., *JIoT May 15, 2021 8304-8313*
- Zomaya, A.Y.**, see Peng, S., *JIoT July 1, 2021 10815-10829*
- Zomaya, A.Y.**, see Dong, W., *JIoT Sept. 1, 2021 13703-13711*
- Zong, X.**, see Wang, R., *JIoT Dec. 1, 2021 16825-16834*
- Zou, J.**, see Yang, X., *JIoT Aug. 15, 2021 12968-12982*
- Zou, J.**, see Zhan, W., *JIoT Sept. 1, 2021 13237-13250*
- Zou, J.**, see Min, R., *JIoT Oct. 15, 2021 15396-15406*
- Zou, X.**, see Ma, C., *JIoT June 1, 2021 9344-9358*
- Zou, Y.**, see Yu, D., *JIoT Oct. 15, 2021 15160-15169*
- Zou, Z.**, see Yan, Y., *JIoT April 15, 2021 6789-6799*
- Zuo, C.**, see Wu, S., *JIoT June 15, 2021 10085-10102*
- Zuo, L.**, see Yang, M., *JIoT Jan. 1, 2021 370-380*
- Zuo, X.**, Li, L., Luo, S., Peng, H., Yang, Y., and Gong, L., Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks; *JIoT March 15, 2021 4590-4603*
- Zuo, Y.**, Jin, S., Zhang, S., and Zhang, Y., Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing; *JIoT June 1, 2021 9084-9098*
- 5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J.*, +, *JIoT Aug. 1, 2021 12467-12475*
- A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B.*, +, *JIoT July 1, 2021 10248-10263*
- A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O.*, +, *JIoT March 15, 2021 4081-4104*
- A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*
- An Architecture for IoT-Enabled Smart Transportation Security System: A Geospatial Approach. *Zhang, J.*, +, *JIoT April 15, 2021 6205-6213*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*
- An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D.*, +, *JIoT March 15, 2021 4816-4829*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*
- Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks. *Zhou, P.*, +, *JIoT July 1, 2021 10237-10247*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*
- Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services. *Wang, L.*, +, *JIoT May 15, 2021 8097-8106*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X.*, +, *JIoT July 1, 2021 10264-10279*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*
- Group Handover for Drone Base Stations. *Aydin, Y.*, +, *JIoT Sept. 15, 2021 13876-13887*
- Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M.*, +, *JIoT Dec. 1, 2021 16718-16722*
- HARQ-Based Grant-Free NOMA for mMTC Uplink. *Jabbarvaziri, F.*, +, *JIoT May 15, 2021 8372-8386*
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q-Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. *Li, C.*, +, *JIoT Oct. 1, 2021 14543-14558*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L.*, +, *JIoT May 15, 2021 8107-8118*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Including Eavesdroppers. *Farhat, J.*, +, *JIoT Oct. 1, 2021 14672-14682*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Subject Index

Numeric

3G mobile communication

- Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelakis, F.*, +, *JIoT Jan. 15, 2021 1224-1242*
- Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H.*, +, *JIoT May 1, 2021 7437-7449*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*
- Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L.*, +, *JIoT May 1, 2021 7241-7251*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*

4G mobile communication

- Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*

5G mobile communication

- 3GPP Standardized 5G Channel Model for IIoT Scenarios: A Survey. *Jiang, T.*, +, *JIoT June 1, 2021 8799-8815*
- 5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X.*, +, *JIoT Sept. 15, 2021 14399-14417*

- Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S., +, JIoT Jan. 15, 2021 1095-1108*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M., +, JIoT Sept. 15, 2021 14187-14201*
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W., +, JIoT Sept. 1, 2021 13237-13250*
- Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y., +, JIoT Nov. 1, 2021 15965-15976*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A., +, JIoT March 15, 2021 4618-4627*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*
- 6G mobile communication**
- 5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X., +, JIoT Sept. 15, 2021 14399-14417*
- 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*
- A Combinatorial Auction Resource Trading Mechanism for Cybertwin-Based 6G Network. *Liang, H., +, JIoT Nov. 15, 2021 16349-16358*
- A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J., +, JIoT Oct. 15, 2021 15276-15283*
- Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S., +, JIoT Nov. 15, 2021 16269-16278*
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y., +, JIoT Nov. 15, 2021 16219-16230*
- AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K., +, JIoT April 1, 2021 5264-5273*
- Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IoT. *Han, G., +, JIoT April 1, 2021 5219-5229*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q., +, JIoT June 15, 2021 10071-10084*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H., +, JIoT April 1, 2021 5230-5239*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z., +, JIoT April 1, 2021 5350-5359*
- Blockchain-Envisioned UAV Communication Using 6G Networks: Open Issues, Use Cases, and Future Directions. *Aggarwal, S., +, JIoT April 1, 2021 5416-5441*
- BTMP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z., +, JIoT April 1, 2021 5386-5407*
- Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*
- Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X., +, JIoT Aug. 1, 2021 12093-12105*
- Competitive Age of Information in Dynamic IoT Networks. *Yu, D., +, JIoT Oct. 15, 2021 15160-15169*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W., +, JIoT April 1, 2021 5374-5385*
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*
- Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IoT: An Integrated Design of Control, Communication, and Computing. *Xu, H., +, JIoT Nov. 15, 2021 16337-16348*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z., +, JIoT April 1, 2021 5298-5308*
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q., +, JIoT Nov. 15, 2021 16195-16206*
- Enabling Massive IoT Toward 6G: A Comprehensive Survey. *Guo, F., +, JIoT Aug. 1, 2021 11891-11915*
- End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L., +, JIoT April 1, 2021 5114-5128*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H., +, JIoT Oct. 15, 2021 15081-15095*
- Guest Editorial Special Issue on 6G-Enabled Internet of Things. *Liang, Q., +, JIoT Oct. 15, 2021 15037-15040*
- Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications. *Yu, Q., +, JIoT Nov. 15, 2021 16191-16194*
- Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M., +, JIoT Dec. 1, 2021 16718-16722*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S., +, JIoT April 1, 2021 5111-5113*
- Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S., +, JIoT April 1, 2021 5172-5184*
- Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J., +, JIoT Oct. 1, 2021 14773-14786*
- Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*
- Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L., +, JIoT April 1, 2021 5129-5140*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z., +, JIoT June 15, 2021 9814-9826*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J., +, JIoT Oct. 15, 2021 15126-15139*
- Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. *Lopez, O.L.A., +, JIoT June 1, 2021 8816-8835*
- Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y., +, JIoT Oct. 15, 2021 15148-15159*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J., +, JIoT Oct. 15, 2021 15191-15204*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K., +, JIoT April 1, 2021 5332-5339*
- Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y., +, JIoT Oct. 15, 2021 15382-15395*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T., +, JIoT Oct. 15, 2021 15334-15348*
- Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J., +, JIoT Nov. 15, 2021 16290-16300*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C., +, JIoT April 1, 2021 5340-5349*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S., +, JIoT Oct. 15, 2021 15349-15360*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z., +, JIoT April 1, 2021 5149-5163*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A., +, JIoT April 1, 2021 5185-5193*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*

Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H.*, +, *JIoT April 1, 2021 5141-5148*

Toward 6G Internet of Things and the Convergence With RoF System. *Chen, N.*, +, *JIoT June 1, 2021 8719-8733*

Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S.*, +, *JIoT April 1, 2021 5408-5415*

Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y.*, +, *JIoT Nov. 15, 2021 16243-16255*

UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*

Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X.*, +, *JIoT Oct. 15, 2021 15049-15058*

Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things. *Zhang, Z.*, +, *JIoT Oct. 15, 2021 15259-15266*

Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*

A

Acceleration

A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J.*, +, *JIoT Nov. 1, 2021 15818-15828*

Accelerometers

Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*

Access control

A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D.*, +, *JIoT April 1, 2021 5510-5517*

Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S.*, +, *JIoT Aug. 15, 2021 12947-12954*

Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J.*, +, *JIoT Dec. 15, 2021 17417-17428*

Access protocols

A Joint Optimization Scheme for Hybrid MAC Layer in LEO Satellite Supported IoT. *Wang, C.*, +, *JIoT Aug. 1, 2021 11822-11833*

A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S.*, +, *JIoT May 15, 2021 8411-8422*

A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*

A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N.*, +, *JIoT Jan. 15, 2021 1123-1139*

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A.*, +, *JIoT Oct. 1, 2021 14607-14622*

Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*

Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y.*, +, *JIoT Oct. 1, 2021 14920-14933*

Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*

Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*

Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*

Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *Shi, Z.*, +, *JIoT March 1, 2021 3476-3489*

ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices. *Safaei, B.*, +, *JIoT Jan. 15, 2021 1169-1182*

Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*

Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R.*, +, *JIoT Sept. 1, 2021 13593-13607*

FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X.*, +, *JIoT Jan. 1, 2021 610-625*

Interleaved Chirp Spreading LoRa as a Parallel Network to Enhance LoRa Capacity. *Edward, P.*, +, *JIoT March 1, 2021 3864-3874*

Large-Scale LoRa Networks: A Mode Adaptive Protocol. *Fernandes, R.*, +, *JIoT Sept. 1, 2021 13487-13502*

LoRaWAN Scheduling: From Concept to Implementation. *Garrido-Hidalgo, C.*, +, *JIoT Aug. 15, 2021 12919-12933*

MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis. *Gao, J.*, +, *JIoT June 15, 2021 9945-9957*

MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J.*, +, *JIoT June 15, 2021 9958-9969*

Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W.*, +, *JIoT Aug. 1, 2021 12398-12409*

Modeling and Online Adaptation of ALOHA for Low-Power Wide-Area Networks (LPWANs). *Seo, J.*, +, *JIoT Oct. 15, 2021 15608-15619*

MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J.*, +, *JIoT Dec. 15, 2021 17403-17416*

Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L.*, +, *JIoT May 1, 2021 7241-7251*

Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y.*, +, *JIoT Oct. 15, 2021 15382-15395*

OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H.*, +, *JIoT March 15, 2021 4329-4338*

On Fast Retrial for Two-Step Random Access in MTC. *Choi, J.*, *JIoT Feb. 1, 2021 1428-1436*

On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. *Zhang, F.*, +, *JIoT April 1, 2021 6101-6113*

On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O.*, +, *JIoT July 15, 2021 11581-11593*

Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. *Liu, M.*, +, *JIoT June 1, 2021 8990-9004*

Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X.*, +, *JIoT Sept. 15, 2021 14171-14186*

Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*

Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*

Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L.*, +, *JIoT May 15, 2021 7912-7924*

The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*

Throughput Enhancement of Full-Duplex CSMA Networks Using Multiplayer Bandits. *Tong, J.*, +, *JIoT Aug. 1, 2021 11807-11821*

Accident prevention

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*

Acoustic signal processing

Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H.*, +, *JIoT Oct. 1, 2021 14658-14671*

Activity recognition

Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D.*, +, *JIoT Dec. 15, 2021 17345-17355*

Actuators

Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A.*, +, *JIoT Nov. 1, 2021 16108-16120*

Ad hoc networks

Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*

Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*

Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*

Adaptation models

A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*

Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S.*, +, *JIoT Nov. 15, 2021 16269-16278*

Adaptive codes

On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J.*, +, *JIoT Feb. 1, 2021 1492-1503*

Adaptive control

H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*

Adaptive Kalman filters

A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y.*, +, *JIoT June 1, 2021 9359-9372*

Aerosols

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

Aerospace communication

Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*

Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W.*, +, *JIoT June 15, 2021 9934-9944*

UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*

Aerospace computing

Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*

The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Use Case. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*

Aerospace control

Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J.*, +, *JIoT Oct. 15, 2021 15441-15455*

Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*

Aerospace safety

Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P.*, +, *JIoT May 15, 2021 7745-7767*

Aerospace simulation

Secure Communication for Multirotor Networks Using Ethereum Blockchain. *Abichandani, P.*, +, *JIoT Feb. 1, 2021 1783-1796*

Aggregates

Corrections to *Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT July 15, 2021 11773-11775*

Agriculture

A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J.*, +, *JIoT June 15, 2021 9683-9696*

An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z.*, +, *JIoT Jan. 15, 2021 1109-1122*

Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A.*, +, *JIoT Nov. 15, 2021 16692-16704*

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*

Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F.*, +, *JIoT June 15, 2021 10170-10186*

Internet of Things for Agricultural Applications: The State of the Art. *Ojha, T.*, +, *JIoT July 15, 2021 10973-10997*

ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G.*, +, *JIoT March 1, 2021 3120-3129*

Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F.*, +, *JIoT Aug. 15, 2021 13095-13114*

Air conditioning

Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A.*, +, *JIoT April 15, 2021 7089-7100*

Air pollution

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J.*, +, *JIoT Jan. 1, 2021 428-442*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*

Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*

Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*

Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis. *Yun, J.*, +, *JIoT May 1, 2021 7380-7393*

Air pollution measurement

Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC. *Shakil Sejan, M.A.*, +, *JIoT May 1, 2021 7214-7228*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14372-14384*

Air quality

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J.*, +, *JIoT Jan. 1, 2021 428-442*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*

Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*

Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

Air traffic

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S.*, +, *JIoT Jan. 1, 2021 572-584*

Aircraft

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S.*, +, *JIoT Jan. 1, 2021 572-584*

Aircraft communication

A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H.*, +, *JIoT June 15, 2021 9865-9877*

Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A.*, +, *JIoT April 15, 2021 6406-6415*

FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X.*, +, *JIoT Jan. 1, 2021 610-625*

LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*

- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I., +, JIoT March 1, 2021 3605-3618*
- Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L., +, JIoT June 1, 2021 8854-8864*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L., +, JIoT March 1, 2021 3743-3757*
- UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z., +, JIoT Aug. 1, 2021 12289-12310*
- Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P., +, JIoT May 15, 2021 7745-7767*
- Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M., +, JIoT Aug. 1, 2021 11834-11846*
- Aircraft control**
- Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J., +, JIoT Oct. 15, 2021 15096-15106*
- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W., +, JIoT July 1, 2021 10573-10582*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C., +, JIoT June 1, 2021 9151-9163*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z., +, JIoT June 15, 2021 9814-9826*
- Aircraft navigation**
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y., +, JIoT Feb. 15, 2021 2627-2634*
- Airports**
- Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S., +, JIoT Jan. 1, 2021 572-584*
- Alarm systems**
- Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L., +, JIoT July 15, 2021 11548-11560*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H., +, JIoT Feb. 1, 2021 1871-1882*
- Algebra**
- Building Layout Tomographic Reconstruction via Commercial WiFi Signals. *Zhang, Y., +, JIoT Oct. 15, 2021 15500-15511*
- Aluminum compounds**
- Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*
- Amplify and forward communication**
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*
- Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L., +, JIoT March 1, 2021 3524-3533*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*
- Amplitude shift keying**
- Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC. *Shakil Sejan, M.A., +, JIoT May 1, 2021 7214-7228*
- Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*
- Analog-digital conversion**
- A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G., +, JIoT June 1, 2021 9244-9256*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W., +, JIoT April 1, 2021 5374-5385*
- Analytic hierarchy process**
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q -Learning Method. *Ma, M., +, JIoT Aug. 1, 2021 11877-11890*
- Analytical models**
- End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*
- Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G., +, JIoT Dec. 1, 2021 17199-17210*
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X., +, JIoT Nov. 15, 2021 16598-16612*
- Anechoic chambers (electromagnetic)**
- A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C., +, JIoT March 1, 2021 3331-3345*
- Angular velocity**
- A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J., +, JIoT Nov. 1, 2021 15818-15828*
- Ant colony optimization**
- A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S., +, JIoT Oct. 15, 2021 15620-15627*
- Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. *Han, P., +, JIoT July 1, 2021 10557-10572*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C., +, JIoT April 1, 2021 5340-5349*
- Antenna arrays**
- A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M., +, JIoT March 15, 2021 4373-4388*
- A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C., +, JIoT March 1, 2021 3331-3345*
- Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P., +, JIoT April 1, 2021 6114-6126*
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C., +, JIoT March 1, 2021 3972-3982*
- Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B., +, JIoT Oct. 15, 2021 15140-15147*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S., +, JIoT June 15, 2021 9920-9933*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M., JIoT May 1, 2021 7252-7269*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z., +, JIoT Sept. 15, 2021 14232-14247*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H., +, JIoT Oct. 1, 2021 14458-14470*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y., +, JIoT May 15, 2021 8399-8410*
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. *Forouzes, M., +, JIoT May 1, 2021 7170-7181*
- Massive MIMO for Underwater Industrial Internet of Things Networks. *Lee, B.M., JIoT Oct. 15, 2021 15542-15552*
- Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A., +, JIoT April 1, 2021 5866-5880*
- mmEye: Super-Resolution Millimeter Wave Imaging. *Zhang, F., +, JIoT April 15, 2021 6995-7008*
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*
- On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer. *Lopez, O.L.A., +, JIoT Jan. 1, 2021 278-296*

- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*
- Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Antenna feeds

- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Antenna phased arrays

- Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. *Shi, W.*, +, *JIoT Oct. 1, 2021 14572-14588*

Antenna radiation patterns

- A Hybrid-Equivalent Surface-Edge Current Model for Simulation of V2X Communication Antennas With Arbitrarily Shaped Contour. *Zhao, H.*, +, *JIoT May 15, 2021 8064-8077*
- Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B.*, +, *JIoT Dec. 15, 2021 17724-17733*
- Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S.*, +, *JIoT April 1, 2021 5850-5865*
- MetaSense: Boosting RF Sensing Accuracy Using Dynamic Metasurface Antenna. *Lan, G.*, +, *JIoT Sept. 15, 2021 14110-14126*
- Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F.*, +, *JIoT Nov. 15, 2021 16653-16665*
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*
- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Antennas

- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*
- Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B.*, +, *JIoT Dec. 15, 2021 17724-17733*
- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y.*, +, *JIoT Nov. 15, 2021 16486-16497*
- Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F.*, +, *JIoT Nov. 15, 2021 16653-16665*

Aperture antennas

- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Application program interfaces

- AC4AV: A Flexible and Dynamic Access Control Framework for Connected and Autonomous Vehicles. *Zhang, Q.*, +, *JIoT Feb. 1, 2021 1946-1958*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaomar, A.*, +, *JIoT July 15, 2021 11088-11099*

Application specific integrated circuits

- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S.*, +, *JIoT July 1, 2021 10706-10713*
- MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT. *Gupta, N.*, +, *JIoT May 1, 2021 7182-7191*
- Shadow: A Lightweight Block Cipher for IoT Nodes. *Guo, Y.*, +, *JIoT Aug. 15, 2021 13014-13023*

Approximation algorithms

- Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z.*, +, *JIoT Dec. 15, 2021 17290-17307*

Approximation theory

- Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J.*, +, *JIoT Oct. 1, 2021 14971-14984*
- Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F.*, +, *JIoT Feb. 1, 2021 1259-1271*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*
- Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B.*, +, *JIoT Oct. 15, 2021 15303-15316*
- Incentivizing Platform-User Interactions for Crowdsensing. *Xiang, C.*, +, *JIoT May 15, 2021 8314-8327*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. *Forouzes, M.*, +, *JIoT May 1, 2021 7170-7181*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D.*, +, *JIoT July 15, 2021 11487-11502*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*
- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*

Aquaculture

- Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. *Ouyang, B.*, +, *JIoT Sept. 15, 2021 14013-14027*

Array signal processing

- A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*
- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*
- Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*
- An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J.*, +, *JIoT Oct. 15, 2021 15372-15381*
- Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*

- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021* 3972-3982
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021* 9920-9933
- Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021* 13750-13762
- Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A.*, +, *JIoT Oct. 1, 2021* 14719-14730
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021* 8399-8410
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021* 13039-13051
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. *Forouzes, M.*, +, *JIoT May 1, 2021* 7170-7181
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W.*, +, *JIoT June 15, 2021* 9934-9944
- Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. *Lopez, O.L.A.*, +, *JIoT June 1, 2021* 8816-8835
- Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021* 5866-5880
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021* 3904-3914
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021* 112-128
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021* 8159-8172
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021* 9838-9854
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021* 1702-1715
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021* 13052-13064
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021* 1959-1970
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021* 14908-14919
- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H.*, +, *JIoT Dec. 1, 2021* 17211-17226
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021* 528-540
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y.*, +, *JIoT Feb. 15, 2021* 2762-2774
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021* 14959-14970
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021* 10543-10556
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021* 4618-4627
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021* 1585-1598
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021* 9099-9108
- Artificial bee colony algorithm**
- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021* 14080-14093
- Artificial intelligence**
- ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D.*, +, *JIoT Nov. 1, 2021* 15977-15989
- A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021* 12540-12549
- A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. *Hassija, V.*, +, *JIoT April 15, 2021* 6222-6246
- Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S.*, +, *JIoT Nov. 15, 2021* 16269-16278
- Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W.*, +, *JIoT April 15, 2021* 6305-6312
- Cloud-Edge Orchestration for the Internet of Things: Architecture and AI-Powered Data Processing. *Wu, Y.*, *JIoT Aug. 15, 2021* 12792-12805
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021* 6940-6948
- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L.*, +, *JIoT Sept. 15, 2021* 13805-13824
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V.*, +, *JIoT May 15, 2021* 8133-8144
- Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms. *Zhang, Y.*, +, *JIoT Feb. 1, 2021* 1334-1346
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J.*, +, *JIoT May 15, 2021* 7789-7817
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021* 5194-5201
- Guest Editorial Special Issue on Smart IoT System: Opportunities by Linking Cloud, Edge, and AI. *Yang, W.*, +, *JIoT Aug. 15, 2021* 12478-12480
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X.*, +, *JIoT June 15, 2021* 9511-9522
- LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M.*, +, *JIoT Dec. 1, 2021* 16863-16871
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E.*, +, *JIoT Jan. 1, 2021* 309-319
- Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021* 9549-9558
- Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IoT. *Qiu, M.*, +, *JIoT June 15, 2021* 9460-9462
- Toward 6G Internet of Things and the Convergence With RoF System. *Chen, N.*, +, *JIoT June 1, 2021* 8719-8733
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H.*, +, *JIoT June 15, 2021* 9664-9671
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H.*, +, *JIoT March 1, 2021* 3180-3188
- Artificial satellites**
- Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. *Kak, A.*, +, *JIoT Feb. 1, 2021* 1749-1768
- Assisted living**
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021* 10953-10962
- Asymptotic stability**
- A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021* 5822-5838
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A.*, +, *JIoT Sept. 1, 2021* 13278-13290
- Atmospheric measurements**
- A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J.*, +, *JIoT Nov. 1, 2021* 15818-15828
- Audio recording**
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E.*, +, *JIoT Sept. 15, 2021* 14308-14321

Audio signal processing

Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E., +, JIoT Sept. 15, 2021 14308-14321*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Augmented reality

Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*

Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S., +, JIoT April 1, 2021 5172-5184*

MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J., +, JIoT May 15, 2021 8304-8313*

Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M., +, JIoT Feb. 1, 2021 1896-1907*

Authentication

A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M., +, JIoT Nov. 1, 2021 15694-15703*

An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L., +, JIoT Dec. 1, 2021 17120-17130*

Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J., +, JIoT May 1, 2021 7727-7744*

Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A., +, JIoT Nov. 1, 2021 15652-15662*

Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J., +, JIoT Nov. 1, 2021 15663-15671*

Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J., +, JIoT Nov. 15, 2021 16290-16300*

Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A., +, JIoT Nov. 15, 2021 16613-16622*

Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F., +, JIoT Dec. 15, 2021 17669-17677*

Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H., +, JIoT Dec. 15, 2021 17734-17746*

Authorization

A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S., +, JIoT May 15, 2021 8411-8422*

A Nonintrusive Elderly Home Monitoring System. *Fang, L., +, JIoT Feb. 15, 2021 2603-2614*

A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N., +, JIoT Jan. 15, 2021 1123-1139*

A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K., +, JIoT April 15, 2021 6840-6852*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B., +, JIoT July 1, 2021 10248-10263*

A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A., +, JIoT April 1, 2021 5914-5925*

A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D., +, JIoT April 1, 2021 5510-5517*

AC4AV: A Flexible and Dynamic Access Control Framework for Connected and Autonomous Vehicles. *Zhang, Q., +, JIoT Feb. 1, 2021 1946-1958*

An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y., +, JIoT Aug. 1, 2021 12231-12241*

Attribute-Based Access Control for Smart Cities: A Smart-Contract-Driven Framework. *Zhang, Y., +, JIoT April 15, 2021 6372-6384*

Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S., +, JIoT Aug. 15, 2021 12947-12954*

Automatic Permission Optimization Framework for Privacy Enhancement of Mobile Applications. *Qu, Y., +, JIoT May 1, 2021 7394-7406*

Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M., +, JIoT Feb. 15, 2021 2116-2123*

Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T., +, JIoT July 1, 2021 10766-10778*

Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things. *Li, Z., +, JIoT Jan. 15, 2021 844-859*

CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B., +, JIoT Oct. 1, 2021 15010-15023*

ComFlex: Composable and Flexible Resource Management for the IoT. *Lee, G., +, JIoT Nov. 15, 2021 16406-16417*

Comparative Performance Analysis of Lightweight Cryptography Algorithms for IoT Sensor Nodes. *Fotovvat, A., +, JIoT May 15, 2021 8279-8290*

Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*

Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*

Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbar, G., +, JIoT Feb. 1, 2021 1908-1920*

Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S., +, JIoT Feb. 15, 2021 2886-2899*

Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P., +, JIoT July 1, 2021 10963-10972*

Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A., +, JIoT April 15, 2021 6406-6415*

Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*

Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S., +, JIoT July 15, 2021 11717-11731*

G2F: A Secure User Authentication for Rapid Smart Home IoT Management. *Luo, H., +, JIoT July 1, 2021 10884-10895*

Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J., +, JIoT April 1, 2021 5794-5805*

Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z., +, JIoT Jan. 1, 2021 474-486*

Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L., +, JIoT Jan. 1, 2021 156-167*

O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R., +, JIoT June 1, 2021 8949-8963*

On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N., +, JIoT March 1, 2021 3255-3267*

Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T., +, JIoT May 15, 2021 8387-8398*

PLGAKD: A PUF-Based Lightweight Group Authentication and Key Distribution Protocol. *Yildiz, H., +, JIoT April 1, 2021 5682-5696*

Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L., +, JIoT Oct. 1, 2021 14731-14745*

Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM. *Reising, D., +, JIoT May 15, 2021 8356-8371*

Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F., +, JIoT May 15, 2021 8056-8063*

Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W., +, JIoT May 15, 2021 8632-8643*

Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R., +, JIoT March 1, 2021 3801-3811*

Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D., +, JIoT Feb. 15, 2021 2976-2991*

- Selective Sharing of Outsourced Encrypted Data in Cloud Environments. *Sifah, E.B., +, JIoT Sept. 15, 2021 14141-14155*
- Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey. *Abuhamad, M., +, JIoT Jan. 1, 2021 65-84*
- SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things. *Kayas, G., +, JIoT July 15, 2021 11561-11580*
- Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J., +, JIoT May 15, 2021 7925-7937*
- Automatic guided vehicles**
- Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. *Shi, H., +, JIoT Jan. 1, 2021 381-392*
- Automatic repeat request**
- A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things. *Khan, F., +, JIoT Oct. 1, 2021 14835-14844*
- HARQ-Based Grant-Free NOMA for mMTC Uplink. *Jabbarvaziri, F., +, JIoT May 15, 2021 8372-8386*
- Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F., +, JIoT Dec. 15, 2021 17596-17610*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. *Farhat, J., +, JIoT Oct. 1, 2021 14672-14682*
- Performance Analysis and Optimization of NOMA With HARQ for Short Packet Communications in Massive IoT. *Ghanami, F., +, JIoT March 15, 2021 4736-4748*
- Automobiles**
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S., +, JIoT June 15, 2021 9484-9494*
- Societal Intelligence for Safer and Smarter Transportation. *Cheng, X., +, JIoT June 1, 2021 9109-9121*
- Automotive engineering**
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S., +, JIoT June 15, 2021 9484-9494*
- Autonomous aerial vehicles**
- A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X., +, JIoT Feb. 15, 2021 2431-2443*
- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IoT. *Song, C., +, JIoT May 1, 2021 7510-7520*
- A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H., +, JIoT June 15, 2021 9865-9877*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C., +, JIoT Aug. 15, 2021 12481-12489*
- Age of Information and Performance Analysis for UAV-Aided IoT Systems. *Han, R., +, JIoT Oct. 1, 2021 14447-14457*
- An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J., +, JIoT Oct. 15, 2021 15372-15381*
- An Ontology-Based System to Collect WSN-UAS Data Effectively. *Martin-Lammerding, D., +, JIoT March 1, 2021 3636-3652*
- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*
- AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J., +, JIoT Jan. 1, 2021 428-442*
- ATTDC: An Active and Traceable Trust Data Collection Scheme for Industrial Security in Smart Cities. *Shen, M., +, JIoT April 15, 2021 6437-6453*
- Blockchain-Envisioned UAV Communication Using 6G Networks: Open Issues, Use Cases, and Future Directions. *Aggarwal, S., +, JIoT April 1, 2021 5416-5441*
- Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J., +, JIoT Jan. 1, 2021 244-261*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M., +, JIoT Aug. 1, 2021 12203-12218*
- Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J., +, JIoT Oct. 15, 2021 15096-15106*
- Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y., +, JIoT March 15, 2021 4906-4919*
- DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P., +, JIoT March 15, 2021 4448-4460*
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*
- Distributed and Collaborative Localization for Swarming UAVs. *Chen, R., +, JIoT March 15, 2021 5062-5074*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T., +, JIoT Feb. 1, 2021 1623-1635*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S., +, JIoT June 15, 2021 9920-9933*
- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W., +, JIoT July 1, 2021 10573-10582*
- Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A., +, JIoT April 15, 2021 6406-6415*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J., +, JIoT May 15, 2021 8570-8584*
- Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K., +, JIoT April 15, 2021 6709-6719*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S., +, JIoT June 15, 2021 10209-10219*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P., +, JIoT Oct. 15, 2021 15456-15467*
- Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y., +, JIoT June 15, 2021 9827-9837*
- FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X., +, JIoT Jan. 1, 2021 610-625*
- Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B., +, JIoT March 15, 2021 4657-4667*
- Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. *Debbah, M., +, JIoT June 15, 2021 9774-9775*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y., +, JIoT March 1, 2021 3786-3800*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z., +, JIoT July 1, 2021 10940-10952*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W., +, JIoT May 15, 2021 7833-7848*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K., +, JIoT June 15, 2021 9787-9799*
- Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. *You, W., +, JIoT Jan. 15, 2021 695-707*
- Joint Optimization of UAV 3-D Placement and Path-Loss Factor for Energy-Efficient Maximal Coverage. *Shakoor, S., +, JIoT June 15, 2021 9776-9786*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y., +, JIoT May 15, 2021 8488-8503*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J., +, JIoT Feb. 1, 2021 1557-1571*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y., +, JIoT May 1, 2021 7126-7139*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y., +, JIoT March 15, 2021 4841-4854*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*

- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space–Air–Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W.*, +, *JIoT June 15, 2021 9934-9944*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q.*, +, *JIoT June 15, 2021 9995-10009*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D.*, +, *JIoT Jan. 15, 2021 813-828*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valulahi, I.*, +, *JIoT March 1, 2021 3605-3618*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*
- Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M.*, +, *JIoT July 1, 2021 10745-10754*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B.*, +, *JIoT June 15, 2021 9878-9893*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*
- Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*
- Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications. *Liu, Y.*, +, *JIoT Feb. 1, 2021 1322-1333*
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*
- Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. *Abichandani, P.*, +, *JIoT Feb. 1, 2021 1783-1796*
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021 528-540*
- Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L.*, +, *JIoT June 1, 2021 8854-8864*
- The Covering-Assignment Problem for Swarm-Powered Ad Hoc Clouds: A Distributed 3-D Mapping Use Case. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaïd, L.*, +, *JIoT March 1, 2021 3743-3757*
- The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. *Hammouti, H.E.*, +, *JIoT Sept. 15, 2021 14066-14079*
- Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrafilian, O.*, +, *JIoT June 15, 2021 9894-9904*
- UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z.*, +, *JIoT Aug. 1, 2021 12289-12310*
- UAV-Aided Cellular Operation by User Offloading. *Ali, M.A.*, +, *JIoT June 15, 2021 9855-9864*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Autonomous underwater vehicles**
- A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J.*, +, *JIoT March 15, 2021 4403-4416*
- Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*
- Aol-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z.*, +, *JIoT Oct. 1, 2021 14559-14571*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- Strengthening the Achilles' Heel: An AUV-Aided Message Ferry Approach Against Dissemination Vulnerability in UASNs. *Liu, L.*, +, *JIoT Oct. 1, 2021 14948-14958*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- Autonomous vehicles**
- GraphComm: Efficient Graph Convolutional Communication for Multiagent Cooperation. *Yuan, Q.*, +, *JIoT Nov. 15, 2021 16359-16369*
- Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z.*, +, *JIoT Dec. 15, 2021 17290-17307*
- Autoregressive moving average processes**
- IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis. *Yun, J.*, +, *JIoT May 1, 2021 7380-7393*
- Autoregressive processes**
- Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT. *Han, G.*, +, *JIoT April 1, 2021 5219-5229*
- Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*
- Avionics**
- Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P.*, +, *JIoT May 15, 2021 7745-7767*
- Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M.*, +, *JIoT Aug. 1, 2021 11834-11846*
- AWGN channels**
- On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afsiadi, O.*, +, *JIoT July 15, 2021 11581-11593*
- Axles**
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*
- B**
- Backpropagation**
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q.*, +, *JIoT Aug. 1, 2021 11916-11934*
- RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X.*, +, *JIoT Aug. 15, 2021 12892-12901*
- Backscatter**
- A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol. *Xiang, Z.*, +, *JIoT April 1, 2021 5697-5709*
- Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12266-12278*

Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L., +, JIoT July 1, 2021 10518-10530*

Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X., +, JIoT Sept. 1, 2021 13737-13749*

Toward a Low-Cost Software-Defined UHF RFID System for Distributed Parallel Sensing. *Wang, Y., +, JIoT Sept. 1, 2021 13664-13676*

Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S., +, JIoT Feb. 1, 2021 1769-1782*

Band-pass filters

A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y., +, JIoT Dec. 15, 2021 17449-17459*

Bandwidth allocation

Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L., +, JIoT Jan. 1, 2021 626-635*

GraphComm: Efficient Graph Convolutional Communication for Multi-agent Cooperation. *Yuan, Q., +, JIoT Nov. 15, 2021 16359-16369*

Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*

Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q., +, JIoT June 15, 2021 9995-10009*

Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W., +, JIoT April 15, 2021 6154-6166*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K., +, JIoT June 15, 2021 10103-10116*

Bar codes

An Accurate and Efficient 1-D Barcode Detector for Medium of Deployment in IoT Systems. *Sharif, A., +, JIoT Jan. 15, 2021 889-900*

Base stations

Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F., +, JIoT Nov. 15, 2021 16522-16534*

Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A., +, JIoT Nov. 15, 2021 16692-16704*

Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A., +, JIoT Nov. 15, 2021 16395-16405*

Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*

Batteries

Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G., +, JIoT Dec. 15, 2021 17747-17761*

Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F., +, JIoT Nov. 1, 2021 15892-15905*

Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L., +, JIoT Dec. 1, 2021 17057-17070*

The Impact of Covid-19 on Smartphone Usage. *Li, T., +, JIoT Dec. 1, 2021 16723-16733*

The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M., +, JIoT Dec. 1, 2021 16984-16999*

Battery chargers

Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. *Lee, C., +, JIoT May 15, 2021 8291-8303*

Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H., +, JIoT Feb. 15, 2021 2379-2394*

Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J., +, JIoT Feb. 15, 2021 2992-2999*

Battery powered vehicles

CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*

CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*

Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. *Moschella, M., +, JIoT July 15, 2021 11112-11122*

Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things. *Liao, Z., +, JIoT May 1, 2021 7575-7588*

PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L., +, JIoT May 15, 2021 7863-7873*

Battery storage plants

A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G., +, JIoT Jan. 15, 2021 684-694*

CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*

Battery testers

Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *Evans, J.W., +, JIoT June 15, 2021 10047-10051*

Bayes methods

Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*

Count Estimation With a Low-Accuracy Machine Learning Model. *Sei, Y., +, JIoT April 15, 2021 7079-7088*

Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W., +, JIoT April 15, 2021 6293-6304*

Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T., +, JIoT March 1, 2021 3224-3241*

Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M., +, JIoT Jan. 1, 2021 407-417*

Modeling and Online Adaptation of ALOHA for Low-Power Wide-Area Networks (LPWANs). *Seo, J., +, JIoT Oct. 15, 2021 15608-15619*

Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y., +, JIoT April 15, 2021 6878-6892*

Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy. *Liang, S.D., JIoT Oct. 15, 2021 15267-15275*

Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A., +, JIoT Dec. 15, 2021 17429-17435*

Behavioral sciences computing

ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q., +, JIoT Sept. 15, 2021 14355-14371*

IoT-Praetor: Undesired Behaviors Detection for IoT Devices. *Wang, J., +, JIoT Jan. 15, 2021 927-940*

Belief networks

DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P., +, JIoT Aug. 15, 2021 12569-12577*

Deep-Learning-Enabled Security Issues in the Internet of Things. *Lv, Z., +, JIoT June 15, 2021 9531-9538*

Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T., +, JIoT March 1, 2021 3224-3241*

Bending

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P., +, JIoT March 15, 2021 5093-5100*

Bicycles

Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City. *Yang, J., +, JIoT April 15, 2021 6416-6424*

Big Data

ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D., +, JIoT Nov. 1, 2021 15977-15989*

6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F., +, JIoT April 1, 2021 5321-5331*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B., +, JIoT July 1, 2021 10248-10263*

A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z., +, JIoT Aug. 15, 2021 12658-12668*

Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C., +, JIoT Dec. 1, 2021 16902-16910*

Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z., +, JIoT April 1, 2021 5350-5359*

Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L., +, JIoT Aug. 15, 2021 12578-12587*

- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J.*, +, *JIoT Dec. 1, 2021 16801-16813*
- Deep Q -Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*
- Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*
- Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J.*, +, *JIoT May 1, 2021 7727-7744*
- Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y.*, +, *JIoT June 15, 2021 9594-9602*
- Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S.*, +, *JIoT April 1, 2021 5111-5113*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*
- IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L.*, +, *JIoT April 1, 2021 5164-5171*
- Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*
- Binary codes**
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- Bioelectric potentials**
- BED: A New Data Set for EEG-Based Biometrics. *Arнау-Gonzalez, P.*, +, *JIoT Aug. 1, 2021 12219-12230*
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*
- Biological system modeling**
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C.*, +, *JIoT Dec. 15, 2021 17308-17319*
- Biology computing**
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- Biomedical communication**
- Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M.*, +, *JIoT Sept. 15, 2021 13939-13949*
- BEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C.*, +, *JIoT July 15, 2021 11743-11757*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y.*, +, *JIoT April 1, 2021 5973-5984*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A.*, +, *JIoT March 15, 2021 4485-4497*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M.*, +, *JIoT April 15, 2021 6454-6468*
- PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*
- Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N.*, +, *JIoT March 15, 2021 4711-4722*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H.*, +, *JIoT June 15, 2021 9664-9671*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M.*, +, *JIoT May 1, 2021 7600-7609*
- Biomedical electrodes**
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*
- Biomedical equipment**
- Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*
- Biomedical imaging**
- Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y.*, +, *JIoT Nov. 1, 2021 15965-15976*
- Biomedical monitoring**
- An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A.*, +, *JIoT Nov. 1, 2021 15847-15854*
- HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N.*, +, *JIoT Dec. 1, 2021 16845-16852*
- Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F.*, +, *JIoT Nov. 1, 2021 15892-15905*
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L.*, +, *JIoT Dec. 1, 2021 16814-16824*
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q.*, +, *JIoT Dec. 1, 2021 16734-16748*
- LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M.*, +, *JIoT Dec. 1, 2021 16863-16871*
- Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*
- Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P.*, +, *JIoT Dec. 15, 2021 17557-17567*
- Biomedical telemetry**
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W.*, +, *JIoT Feb. 15, 2021 2931-2942*
- WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B.*, +, *JIoT Sept. 15, 2021 13900-13913*
- Biometrics (access control)**
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*
- BED: A New Data Set for EEG-Based Biometrics. *Arнау-Gonzalez, P.*, +, *JIoT Aug. 1, 2021 12219-12230*
- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S.*, +, *JIoT Jan. 1, 2021 487-500*
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X.*, +, *JIoT Nov. 15, 2021 16535-16547*
- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S.*, +, *JIoT July 1, 2021 10706-10713*
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y.*, +, *JIoT March 1, 2021 3500-3511*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*
- Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey. *Abuhamad, M.*, +, *JIoT Jan. 1, 2021 65-84*
- Biothermics**
- Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*
- Bit error rate**
- Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y.*, +, *JIoT Nov. 1, 2021 16023-16034*
- Block codes**
- Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*

Blockchains

- d*-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E.*, +, *JIoT Nov. 15, 2021 16585-16597*
- A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V.*, +, *JIoT Feb. 15, 2021 2409-2418*
- Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y.*, +, *JIoT Nov. 1, 2021 15785-15795*
- A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost. *Zhao, Y.*, +, *JIoT June 1, 2021 8865-8882*
- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L.*, +, *JIoT Feb. 15, 2021 2395-2408*
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X.*, +, *JIoT Feb. 15, 2021 2431-2443*
- A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain. *Zhang, W.*, +, *JIoT Feb. 15, 2021 2354-2363*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y.*, +, *JIoT Sept. 15, 2021 13958-13974*
- A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F.*, +, *JIoT Feb. 15, 2021 2468-2482*
- A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D.*, +, *JIoT April 1, 2021 5510-5517*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*
- Addressing Security and Privacy Issues of IoT Using Blockchain Technology. *Mohanta, B.K.*, +, *JIoT Jan. 15, 2021 881-888*
- AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C.*, +, *JIoT March 1, 2021 3157-3169*
- Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log. *Figueroa-Lorenzo, S.*, +, *JIoT Sept. 1, 2021 13306-13315*
- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A.*, +, *JIoT May 15, 2021 7874-7888*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. *Ma, J.*, +, *JIoT July 1, 2021 10873-10883*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S.*, +, *JIoT Aug. 15, 2021 12947-12954*
- BEdeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C.*, +, *JIoT July 15, 2021 11743-11757*
- BioTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P.*, +, *JIoT July 1, 2021 10857-10872*
- Blockchain for Diamond Industry: Opportunities and Challenges. *Thakker, U.*, +, *JIoT June 1, 2021 8747-8773*
- Blockchain for Future Smart Grid: A Comprehensive Survey. *Mollah, M.B.*, +, *JIoT Jan. 1, 2021 18-43*
- Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B.*, +, *JIoT March 15, 2021 4157-4185*
- Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices. *Zhang, H.*, +, *JIoT Oct. 15, 2021 15596-15607*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T.*, +, *JIoT July 1, 2021 10766-10778*
- Blockchain-Enabled Cyber-Physical Systems: A Review. *Zhao, W.*, +, *JIoT March 15, 2021 4023-4034*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- Blockchain-Envisioned UAV Communication Using 6G Networks: Open Issues, Use Cases, and Future Directions. *Aggarwal, S.*, +, *JIoT April 1, 2021 5416-5441*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). *Li, J.*, +, *JIoT June 15, 2021 10052-10070*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y.*, +, *JIoT Feb. 15, 2021 2300-2317*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H.*, +, *JIoT Nov. 1, 2021 15776-15784*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B.*, +, *JIoT April 1, 2021 5744-5761*
- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P.*, +, *JIoT Feb. 15, 2021 2150-2162*
- Embedding Blockchain Technology Into IoT for Security: A Survey. *Xu, L.D.*, +, *JIoT July 1, 2021 10452-10473*
- Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A.*, +, *JIoT April 15, 2021 6406-6415*
- Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain. *Zhang, C.*, +, *JIoT April 15, 2021 6624-6636*
- Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing. *Shen, M.*, +, *JIoT Feb. 15, 2021 2265-2275*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C.*, +, *JIoT Aug. 15, 2021 12806-12825*
- Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S.*, +, *JIoT July 15, 2021 11717-11731*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*
- Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing. *Fan, S.*, +, *JIoT Feb. 15, 2021 2252-2264*
- Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S.*, +, *JIoT April 1, 2021 5172-5184*
- Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H.*, +, *JIoT Feb. 15, 2021 2379-2394*
- Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks. *Xiao, H.*, +, *JIoT Sept. 15, 2021 13926-13938*
- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T.*, +, *JIoT Sept. 15, 2021 14418-14430*
- MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A.*, +, *JIoT Nov. 1, 2021 15762-15775*
- Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. *Nguyen, L.D.*, +, *JIoT April 15, 2021 6487-6497*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H.*, +, *JIoT Feb. 15, 2021 2193-2207*
- Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. *Qiu, C.*, +, *JIoT Aug. 15, 2021 12694-12704*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z.*, +, *JIoT Feb. 15, 2021 2364-2378*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H.*, +, *JIoT June 15, 2021 10117-10130*

- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T., +, JIoT May 15, 2021 8387-8398*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*
- RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C., +, JIoT March 15, 2021 4291-4304*
- SBBS: A Secure Blockchain-Based Scheme for IoT Data Credibility in Fog Environment. *Fan, Y., +, JIoT June 1, 2021 9268-9277*
- Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles. *Qi, H., +, JIoT March 15, 2021 4472-4484*
- Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S., +, JIoT July 1, 2021 10815-10829*
- Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D., +, JIoT Feb. 15, 2021 2976-2991*
- Security Challenges and Opportunities for Smart Contracts in Internet of Things: A Survey. *Peng, K., +, JIoT Aug. 1, 2021 12004-12020*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A., +, JIoT July 1, 2021 10792-10806*
- Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing. *Miao, Y., +, JIoT Feb. 15, 2021 2289-2299*
- SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K., JIoT May 1, 2021 7407-7422*
- Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P., +, JIoT Nov. 1, 2021 15749-15761*
- The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A., +, JIoT Dec. 15, 2021 17236-17260*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A., +, JIoT Oct. 1, 2021 14874-14895*
- Voting-Based Decentralized Consensus Design for Improving the Efficiency and Security of Consortium Blockchain. *Sun, G., +, JIoT April 15, 2021 6257-6272*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*
- Blogs**
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R., +, JIoT Dec. 1, 2021 16825-16834*
- Blood**
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y., +, JIoT Dec. 1, 2021 16921-16932*
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q., +, JIoT Dec. 1, 2021 16734-16748*
- Blood vessels**
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q., +, JIoT Dec. 1, 2021 16734-16748*
- Bluetooth**
- A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*
- A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y., +, JIoT June 1, 2021 9359-9372*
- A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C., +, JIoT March 1, 2021 3331-3345*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R., +, JIoT March 15, 2021 4417-4432*
- BMADS: BLE Mesh Asynchronous Dynamic Scanning. *Perez-Diaz-de-Cerio, D., +, JIoT Feb. 15, 2021 2558-2573*
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A., +, JIoT Aug. 1, 2021 11860-11876*
- Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*
- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P., +, JIoT March 15, 2021 4830-4840*
- Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. *Yu, C., +, JIoT April 15, 2021 7101-7102*
- LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. *Guo, X., +, JIoT April 15, 2021 6665-6676*
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z., +, JIoT Jan. 1, 2021 474-486*
- NUPFA: A Novel Nonuniform Power Formation Algorithm for BLE Mesh Networks. *Yu, C., +, JIoT April 15, 2021 7103-7104*
- Performance Analysis Models of BLE Neighbor Discovery: A Survey. *Luo, B., +, JIoT June 1, 2021 8734-8746*
- QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H., +, JIoT March 15, 2021 4957-4968*
- Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P., +, JIoT May 15, 2021 7745-7767*
- Body area networks**
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T., +, JIoT March 1, 2021 3369-3383*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z., +, JIoT Sept. 15, 2021 13975-13990*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y., +, JIoT March 1, 2021 3567-3575*
- Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N., +, JIoT March 15, 2021 4711-4722*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M., +, JIoT May 1, 2021 7600-7609*
- Body sensor networks**
- Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks. *Guo, L., +, JIoT March 1, 2021 3851-3863*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices. *Wang, Y., +, JIoT Aug. 1, 2021 12455-12466*
- Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X., +, JIoT Feb. 1, 2021 1373-1387*
- Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z., +, JIoT Dec. 1, 2021 17000-17013*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H., +, JIoT June 15, 2021 10117-10130*
- Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning. *Yurtman, A., +, JIoT May 15, 2021 8328-8342*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F., +, JIoT May 15, 2021 8056-8063*
- Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J., +, JIoT July 15, 2021 11450-11462*
- Boltzmann machines**
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M., +, JIoT Oct. 15, 2021 15240-15248*
- Brain modeling**
- Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L., +, JIoT Dec. 1, 2021 16787-16800*
- Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A., +, JIoT Nov. 15, 2021 16680-16691*

Braking

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y., +, JIoT April 1, 2021 5822-5838*

Bridges (structures)

Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L., +, JIoT March 1, 2021 3108-3119*

Broadband networks

5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X., +, JIoT Sept. 15, 2021 14399-14417*

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A., +, JIoT Oct. 1, 2021 14607-14622*

Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. *Wei, T., +, JIoT June 1, 2021 8910-8934*

Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L., +, JIoT Sept. 1, 2021 13355-13366*

Broadcast channels

Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y., +, JIoT July 1, 2021 10896-10910*

Broadcast communication

Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems. *Seo, H., +, JIoT Jan. 1, 2021 129-143*

Building information modeling

Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. *Altaf, A., +, JIoT May 1, 2021 7497-7509*

Building management systems

A Quantitative Study of DDoS and E-DDoS Attacks on WiFi Smart Home Devices. *Tushir, B., +, JIoT April 15, 2021 6282-6292*

A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L., +, JIoT Aug. 1, 2021 12046-12063*

Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *Zhang, W., +, JIoT May 15, 2021 8021-8031*

Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M., +, JIoT Feb. 15, 2021 2615-2626*

Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*

Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. *Altaf, A., +, JIoT May 1, 2021 7497-7509*

Buildings (structures)

A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S., +, JIoT Dec. 1, 2021 17186-17198*

Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *Zhang, W., +, JIoT May 15, 2021 8021-8031*

FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*

Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*

Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H., +, JIoT Dec. 1, 2021 17100-17110*

C**Cache storage**

A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O., +, JIoT March 15, 2021 4081-4104*

Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H., +, JIoT Feb. 15, 2021 2444-2458*

Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J., +, JIoT March 1, 2021 3268-3275*

CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X., +, JIoT May 15, 2021 8191-8209*

Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X., +, JIoT July 1, 2021 10911-10921*

Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W., +, JIoT Jan. 15, 2021 1016-1029*

Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C., +, JIoT Aug. 15, 2021 12806-12825*

History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control. *Gao, X., +, JIoT Oct. 1, 2021 14683-14704*

Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S., +, JIoT April 1, 2021 5172-5184*

IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L., +, JIoT April 1, 2021 5164-5171*

Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F., +, JIoT Sept. 15, 2021 14156-14170*

Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X., +, JIoT April 1, 2021 6024-6038*

Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *Abkenar, F.S., +, JIoT March 1, 2021 3875-3884*

When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multiscale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*

Calibration

A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V., +, JIoT July 15, 2021 11320-11328*

Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices. *Choi, J., +, JIoT Jan. 1, 2021 541-554*

CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y., +, JIoT April 15, 2021 6893-6903*

Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P., +, JIoT Sept. 1, 2021 13652-13663*

GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. *Zhao, Y., +, JIoT Jan. 1, 2021 393-406*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J., +, JIoT Aug. 1, 2021 11983-12003*

Online Collaborative Localization. *Zhou, C., +, JIoT Feb. 15, 2021 2712-2721*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q., +, JIoT Feb. 1, 2021 2011-2026*

QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*

Vulnerability of WiFi's Noise Floor Calibration. *Kim, S., +, JIoT May 15, 2021 8504-8513*

Cameras

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S., +, JIoT Jan. 15, 2021 1154-1168*

A Nonintrusive Elderly Home Monitoring System. *Fang, L., +, JIoT Feb. 15, 2021 2603-2614*

An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A., +, JIoT Nov. 1, 2021 15847-15854*

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J., +, JIoT Jan. 1, 2021 428-442*

Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J., +, JIoT Nov. 15, 2021 16498-16509*

- CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*
- Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R., +, JIoT Feb. 15, 2021 2517-2539*
- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A., +, JIoT Dec. 15, 2021 17495-17507*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M., +, JIoT Oct. 15, 2021 15059-15069*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C., +, JIoT May 1, 2021 7625-7637*
- FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L., +, JIoT May 1, 2021 7333-7345*
- I-ViSE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y., +, JIoT Nov. 1, 2021 16181-16190*
- Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*
- Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y., +, JIoT Oct. 1, 2021 14999-15009*
- Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y., +, JIoT Feb. 1, 2021 1740-1748*
- Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras. *Lu, C., +, JIoT March 15, 2021 4931-4943*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y., +, JIoT Dec. 15, 2021 17762-17777*
- Cancer**
- An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*
- Capacitors**
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C., +, JIoT Feb. 15, 2021 2694-2711*
- Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M., +, JIoT Aug. 1, 2021 11834-11846*
- Cardiology**
- 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*
- Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*
- ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*
- Carrier sense multiple access**
- A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol. *Xiang, Z., +, JIoT April 1, 2021 5697-5709*
- FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X., +, JIoT Jan. 1, 2021 610-625*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H., +, JIoT March 15, 2021 4668-4680*
- Throughput Enhancement of Full-Duplex CSMA Networks Using Multiplayer Bandits. *Tong, J., +, JIoT Aug. 1, 2021 11807-11821*
- Cascading style sheets**
- Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M., +, JIoT Dec. 15, 2021 17611-17621*
- Casting**
- d-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E., +, JIoT Nov. 15, 2021 16585-16597*
- Cellular networks**
- Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. *Debbah, M., +, JIoT June 15, 2021 9774-9775*
- Cellular radio**
- An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A., +, JIoT Oct. 1, 2021 14607-14622*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S., +, JIoT April 1, 2021 5285-5297*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M., +, JIoT Sept. 1, 2021 13414-13424*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z., +, JIoT Oct. 1, 2021 14756-14772*
- An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D., +, JIoT March 15, 2021 4816-4829*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q., +, JIoT June 15, 2021 10071-10084*
- Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X., +, JIoT June 1, 2021 9233-9243*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H., +, JIoT April 1, 2021 5230-5239*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z., +, JIoT April 1, 2021 5350-5359*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M., +, JIoT Aug. 1, 2021 12203-12218*
- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y., +, JIoT Feb. 15, 2021 2900-2909*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q., +, JIoT June 1, 2021 9164-9176*
- D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y., +, JIoT Aug. 15, 2021 12490-12504*
- Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B., +, JIoT March 1, 2021 3066-3074*
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*
- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I., +, JIoT March 1, 2021 3143-3156*
- Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X., +, JIoT July 1, 2021 10911-10921*
- DM-COM: Combining Device-to-Device and MU-MIMO Communications for Cellular Networks. *Sangdeh, P.K., +, JIoT Sept. 1, 2021 13516-13527*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W., +, JIoT June 15, 2021 9800-9813*
- Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning. *Gu, X., +, JIoT Sept. 1, 2021 13209-13221*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J., +, JIoT Oct. 15, 2021 15361-15371*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S., +, JIoT June 15, 2021 9920-9933*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V., +, JIoT March 1, 2021 3394-3409*
- Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H., +, JIoT May 1, 2021 7437-7449*
- Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G., +, JIoT Sept. 1, 2021 13774-13788*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z., +, JIoT Sept. 15, 2021 14232-14247*

- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*
- Group Handover for Drone Base Stations. *Aydin, Y., +, JIoT Sept. 15, 2021 13876-13887*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K., +, JIoT July 1, 2021 10308-10317*
- Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J., +, JIoT April 1, 2021 5794-5805*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z., +, JIoT July 1, 2021 10940-10952*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D., +, JIoT Aug. 15, 2021 12855-12879*
- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T., +, JIoT Sept. 15, 2021 14418-14430*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J., +, JIoT Feb. 1, 2021 1557-1571*
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W., +, JIoT June 15, 2021 9934-9944*
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y., +, JIoT March 1, 2021 3490-3499*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J., +, JIoT Feb. 1, 2021 1883-1895*
- Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L., +, JIoT May 1, 2021 7241-7251*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L., +, JIoT May 15, 2021 8107-8118*
- On Fast Retrial for Two-Step Random Access in MTC. *Choi, J., JIoT Feb. 1, 2021 1428-1436*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M., +, JIoT July 1, 2021 10531-10542*
- Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D., +, JIoT Sept. 1, 2021 13196-13208*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T., +, JIoT July 15, 2021 11655-11665*
- Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications. *Nie, X., +, JIoT Oct. 15, 2021 15317-15333*
- Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M., +, JIoT March 15, 2021 5101-5110*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G., +, JIoT May 15, 2021 8543-8556*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A., +, JIoT Feb. 1, 2021 1674-1686*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S., +, JIoT Oct. 15, 2021 15349-15360*
- Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks. *Jang, H.S., +, JIoT July 15, 2021 11640-11654*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J., +, JIoT June 1, 2021 9407-9421*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M., +, JIoT Feb. 1, 2021 1896-1907*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X., +, JIoT April 1, 2021 5240-5249*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T., +, JIoT June 15, 2021 10160-10169*
- Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L., +, JIoT May 15, 2021 7912-7924*
- UAV-Aided Cellular Operation by User Offloading. *Ali, M.A., +, JIoT June 15, 2021 9855-9864*
- Channel allocation**
- A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H., +, JIoT July 15, 2021 11208-11218*
- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R., +, JIoT Feb. 15, 2021 2670-2680*
- A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T., +, JIoT Oct. 15, 2021 15486-15499*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S., +, JIoT April 1, 2021 5285-5297*
- Analysis and Implementation for Traffic-Aware Channel Assignment and Contention Scheme in LoRa-Based IoT Networks. *Shen, L., +, JIoT July 15, 2021 11368-11383*
- AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L., +, JIoT May 15, 2021 7889-7901*
- Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y., +, JIoT May 1, 2021 7676-7690*
- Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X., +, JIoT Aug. 15, 2021 13115-13125*
- Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. *Zhu, J., +, JIoT Sept. 1, 2021 13542-13554*
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M., +, JIoT Feb. 1, 2021 1477-1491*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J., +, JIoT June 1, 2021 9407-9421*
- Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X., +, JIoT Oct. 15, 2021 15049-15058*
- Channel capacity**
- Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y., +, JIoT July 1, 2021 10896-10910*
- Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *Mishra, S., +, JIoT July 15, 2021 11305-11319*
- Resonant Beam Communications With Echo Interference Elimination. *Xiong, M., +, JIoT Feb. 15, 2021 2875-2885*
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W., +, JIoT Aug. 15, 2021 13052-13064*
- Channel coding**
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M., +, JIoT July 15, 2021 11135-11149*
- MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J., +, JIoT Oct. 15, 2021 15512-15521*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W., +, JIoT Jan. 15, 2021 723-733*
- Rateless TLRCM for IoT Uplink Transmission. *Rao, W., +, JIoT July 1, 2021 10608-10618*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z., +, JIoT April 1, 2021 5149-5163*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T., +, JIoT June 15, 2021 10160-10169*
- Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R., +, JIoT Dec. 15, 2021 17568-17583*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K., +, JIoT June 15, 2021 10103-10116*
- Channel estimation**
- A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H., +, JIoT Oct. 1, 2021 14705-14718*
- Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*

- Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*
- Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X.*, +, *JIoT Aug. 1, 2021 12093-12105*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *Mishra, S.*, +, *JIoT July 15, 2021 11305-11319*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H.*, +, *JIoT Oct. 1, 2021 14458-14470*
- Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial–Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B.*, +, *JIoT July 15, 2021 11705-11716*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S.*, +, *JIoT Oct. 1, 2021 14860-14873*
- Channel models**
- A 3-D Nonstationary Wideband V2V GBSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L.*, +, *JIoT Dec. 15, 2021 17622-17638*
- Channel state estimation**
- A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y.*, +, *JIoT Dec. 15, 2021 17449-17459*
- Channel state information**
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D.*, +, *JIoT Dec. 15, 2021 17345-17355*
- Chaos**
- IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G.*, +, *JIoT Jan. 15, 2021 1057-1070*
- Chaotic communication**
- Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*
- Chebyshev approximation**
- An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L.*, +, *JIoT Dec. 1, 2021 17120-17130*
- Chirp modulation**
- Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M.*, +, *JIoT Dec. 15, 2021 17611-17621*
- Interleaved Chirp Spreading LoRa as a Parallel Network to Enhance LoRa Capacity. *Edward, P.*, +, *JIoT March 1, 2021 3864-3874*
- mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Nov. 15, 2021 16623-16636*
- Slope-Shift Keying LoRa-Based Modulation. *Hanif, M.*, +, *JIoT Jan. 1, 2021 211-221*
- Circuit complexity**
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H.*, +, *JIoT March 15, 2021 4329-4338*
- Classification**
- Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S.*, +, *JIoT Dec. 15, 2021 17320-17332*
- Client-server systems**
- Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C.*, +, *JIoT Oct. 15, 2021 15531-15541*
- Clocks**
- Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems. *Jia, P.*, +, *JIoT March 15, 2021 4548-4559*
- Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems. *Jia, P.*, +, *JIoT Sept. 15, 2021 14028-14038*
- Closed circuit television**
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- Closed loop systems**
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A.*, +, *JIoT Aug. 1, 2021 11860-11876*
- False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D.*, +, *JIoT Jan. 1, 2021 585-595*
- Cloud computing**
- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*
- Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*
- Federated Sensing: Edge-Cloud Elastic Collaborative Learning for Intelligent Sensing. *Gao, Y.*, +, *JIoT July 15, 2021 11100-11111*
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C.*, +, *JIoT May 1, 2021 7510-7520*
- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H.*, +, *JIoT Nov. 15, 2021 16349-16358*
- A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A.*, +, *JIoT March 1, 2021 3885-3903*
- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O.*, +, *JIoT June 15, 2021 9463-9472*
- A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y.*, +, *JIoT Dec. 1, 2021 17071-17089*
- A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R.*, +, *JIoT March 15, 2021 4339-4352*
- A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. *Cai, X.*, +, *JIoT June 15, 2021 9645-9653*
- A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*
- A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*
- A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J.*, +, *JIoT Nov. 1, 2021 15807-15817*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*
- A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J.*, +, *JIoT June 15, 2021 10034-10046*
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y.*, +, *JIoT Sept. 15, 2021 13958-13974*
- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M.*, +, *JIoT July 1, 2021 10830-10842*
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*

- A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A.*, +, *JIoT April 1, 2021 5914-5925*
- A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*
- A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. *Alwarafy, A.*, +, *JIoT March 15, 2021 4004-4022*
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *Ali, B.*, +, *JIoT March 1, 2021 3822-3830*
- A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z.*, +, *JIoT Sept. 15, 2021 14322-14337*
- Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A.*, +, *JIoT Nov. 15, 2021 16548-16558*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*
- An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J.*, +, *JIoT Jan. 1, 2021 458-473*
- An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L.*, +, *JIoT July 15, 2021 11357-11367*
- An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T.*, +, *JIoT March 1, 2021 3170-3179*
- An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z.*, +, *JIoT Dec. 1, 2021 16779-16786*
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C.*, +, *JIoT Dec. 1, 2021 16911-16920*
- Application Domains, Evaluation Data Sets, and Research Challenges of IoT: A Systematic Review. *Lohiya, R.*, +, *JIoT June 1, 2021 8774-8798*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. *Ma, J.*, +, *JIoT July 1, 2021 10873-10883*
- Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. *Zuo, Y.*, +, *JIoT June 1, 2021 9084-9098*
- Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices. *Zhang, H.*, +, *JIoT Oct. 15, 2021 15596-15607*
- Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y.*, +, *JIoT Feb. 15, 2021 2226-2237*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T.*, +, *JIoT July 1, 2021 10766-10778*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z.*, +, *JIoT April 15, 2021 6733-6745*
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*
- Cascading Failures in Internet of Things: Review and Perspectives on Reliability and Resilience. *Xing, L.*, *JIoT Jan. 1, 2021 44-64*
- Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J.*, +, *JIoT Nov. 15, 2021 16498-16509*
- CLONE: Collaborative Learning on the Edges. *Lu, S.*, +, *JIoT July 1, 2021 10222-10236*
- Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*
- Cloud-Edge Orchestration for the Internet of Things: Architecture and AI-Powered Data Processing. *Wu, Y.*, *JIoT Aug. 15, 2021 12792-12805*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*
- Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*
- Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks. *Zhou, P.*, +, *JIoT July 1, 2021 10237-10247*
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B.*, +, *JIoT April 1, 2021 5645-5656*
- Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*
- Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services. *Wang, L.*, +, *JIoT May 15, 2021 8097-8106*
- Confused-Modulo-Projection-Based Somewhat Homomorphic Encryption—Cryptosystem, Library, and Applications on Secure Smart Cities. *Jin, X.*, +, *JIoT April 15, 2021 6324-6336*
- Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G.*, +, *JIoT Sept. 1, 2021 13723-13736*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y.*, +, *JIoT Feb. 15, 2021 2300-2317*
- D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y.*, +, *JIoT Aug. 15, 2021 12490-12504*
- DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P.*, +, *JIoT Aug. 15, 2021 12569-12577*
- Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L.*, +, *JIoT March 15, 2021 4317-4328*
- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X.*, +, *JIoT Aug. 15, 2021 12588-12596*
- Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A.*, +, *JIoT Nov. 1, 2021 15704-15748*
- Design and Prototype Implementation of a Blockchain-Enabled LoRa System With Edge Computing. *Hou, L.*, +, *JIoT Feb. 15, 2021 2419-2430*
- Design, Resource Management, and Evaluation of Fog Computing Systems: A Survey. *Martinez, I.*, +, *JIoT Feb. 15, 2021 2494-2516*
- Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J.*, +, *JIoT May 1, 2021 7727-7744*
- Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N.*, +, *JIoT Nov. 15, 2021 16452-16472*
- Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems. *Jia, P.*, +, *JIoT March 15, 2021 4548-4559*
- Distributed Task Offloading Optimization With Queuing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J.*, +, *JIoT Aug. 1, 2021 12311-12328*
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V.*, +, *JIoT May 15, 2021 8133-8144*
- DQN-Based Optimization Framework for Secure Sharded Blockchain Systems. *Yun, J.*, +, *JIoT Jan. 15, 2021 708-722*
- Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G.*, +, *JIoT Dec. 15, 2021 17747-17761*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R.*, +, *JIoT Jan. 1, 2021 345-356*
- Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B.*, +, *JIoT Dec. 1, 2021 16853-16862*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S.*, +, *JIoT Jan. 15, 2021 976-988*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y.*, +, *JIoT May 1, 2021 7450-7465*
- E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L.*, +, *JIoT July 15, 2021 11290-11304*

- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y., +, JIoT Aug. 15, 2021 12734-12747*
- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*
- EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing. *Wu, H., +, JIoT Feb. 15, 2021 2163-2176*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J., +, JIoT Aug. 15, 2021 12528-12539*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S., +, JIoT Feb. 15, 2021 2886-2899*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q., +, JIoT Aug. 15, 2021 12782-12791*
- Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G., +, JIoT Dec. 1, 2021 16894-16901*
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J., +, JIoT May 15, 2021 7789-7817*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M., +, JIoT Aug. 15, 2021 12638-12649*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H., +, JIoT Sept. 1, 2021 13465-13486*
- Energy-Efficient Anomaly Detection With Primary and Secondary Attributes in Edge-Cloud Collaboration Networks. *Li, X., +, JIoT Aug. 1, 2021 12176-12188*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R., +, JIoT Aug. 1, 2021 12410-12421*
- Energy-Efficient Deployment of IoT Applications in Edge-Based Infrastructures: A Software Product Line Approach. *Canete, A., +, JIoT Nov. 15, 2021 16427-16439*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*
- Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M., +, JIoT Aug. 1, 2021 12422-12435*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J., +, JIoT March 1, 2021 3323-3330*
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E., +, JIoT Sept. 15, 2021 14308-14321*
- FogFL: Fog-Assisted Federated Learning for Resource-Constrained IoT Devices. *Saha, R., +, JIoT May 15, 2021 8456-8463*
- Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S., +, JIoT July 15, 2021 11717-11731*
- Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W., +, JIoT Dec. 15, 2021 17691-17704*
- Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications. *Yu, Q., +, JIoT Nov. 15, 2021 16191-16194*
- Heterogeneous Signcryption With Equality Test for IIoT Environment. *Xiong, H., +, JIoT Nov. 1, 2021 16142-16152*
- Heterogeneous Task Offloading and Resource Allocations via Deep Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J., +, JIoT Jan. 15, 2021 1041-1056*
- Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J., +, JIoT April 1, 2021 5794-5805*
- High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y., +, JIoT Dec. 1, 2021 16872-16879*
- Hybrid Decentralized Data Analytics in Edge-Computing-Empowered IoT Networks. *Zhao, L., +, JIoT May 1, 2021 7706-7716*
- Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J., +, JIoT Oct. 1, 2021 14773-14786*
- Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S., +, JIoT Aug. 15, 2021 12716-12723*
- Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. *Han, P., +, JIoT July 1, 2021 10557-10572*
- Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F., +, JIoT Nov. 1, 2021 15892-15905*
- IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J., +, JIoT Aug. 15, 2021 12771-12781*
- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L., +, JIoT Aug. 15, 2021 12610-12622*
- IoT Service Slicing and Task Offloading for Edge Computing. *Hwang, J., +, JIoT July 15, 2021 11526-11547*
- IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L., +, JIoT April 1, 2021 5164-5171*
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L., +, JIoT Dec. 1, 2021 16814-16824*
- Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S., +, JIoT Feb. 15, 2021 2135-2149*
- Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L., +, JIoT April 15, 2021 6677-6691*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H., +, JIoT April 1, 2021 5250-5263*
- Local Differential Privacy-Based Federated Learning for Internet of Things. *Zhao, Y., +, JIoT June 1, 2021 8836-8853*
- Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M., +, JIoT Feb. 1, 2021 1662-1673*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y., +, JIoT March 1, 2021 3300-3309*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C., +, JIoT Aug. 15, 2021 12705-12715*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T., +, JIoT Feb. 1, 2021 1687-1701*
- Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W., +, JIoT Nov. 15, 2021 16256-16268*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A., +, JIoT March 1, 2021 3410-3421*
- Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S., +, JIoT June 15, 2021 10010-10017*
- Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L., +, JIoT Jan. 1, 2021 156-167*
- Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing. *Zhu, X., +, JIoT Oct. 15, 2021 15582-15595*
- Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. *Qiu, C., +, JIoT Aug. 15, 2021 12694-12704*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z., +, JIoT Feb. 15, 2021 2364-2378*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L., +, JIoT May 15, 2021 8107-8118*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R., +, JIoT June 1, 2021 8949-8963*

- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B.*, +, *JIoT June 15, 2021 9878-9893*
- Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G.*, +, *JIoT Feb. 15, 2021 2483-2493*
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E.*, +, *JIoT Jan. 1, 2021 309-319*
- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N.*, +, *JIoT Dec. 15, 2021 17382-17394*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q.*, +, *JIoT Aug. 1, 2021 11916-11934*
- Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T.*, +, *JIoT April 15, 2021 6649-6664*
- Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach. *Yuan, H.*, +, *JIoT Oct. 1, 2021 14985-14998*
- Operating Latency Sensitive Applications on Public Serverless Edge Cloud Platforms. *Pelle, I.*, +, *JIoT May 15, 2021 7954-7972*
- Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L.*, +, *JIoT Dec. 1, 2021 17172-17185*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X.*, +, *JIoT Feb. 15, 2021 2722-2735*
- Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M.*, +, *JIoT Sept. 1, 2021 13690-13702*
- Power-Efficient Software-Defined Data Center Network. *Zhao, Y.*, +, *JIoT June 15, 2021 10018-10033*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*
- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*
- RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C.*, +, *JIoT March 15, 2021 4291-4304*
- Resource Management for Secure Computation Offloading in Software-Defined Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaoumar, A.*, +, *JIoT July 15, 2021 11088-11099*
- Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y.*, +, *JIoT Oct. 1, 2021 14999-15009*
- S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S.*, +, *JIoT April 15, 2021 6975-6982*
- SALoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M.*, +, *JIoT March 1, 2021 3665-3677*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*
- SearchBC: A Blockchain-Based PEKS Framework for IoT Services. *Jiang, P.*, +, *JIoT March 15, 2021 5031-5044*
- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W.*, +, *JIoT May 15, 2021 8119-8132*
- Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P.*, +, *JIoT March 1, 2021 3287-3299*
- Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W.*, +, *JIoT May 15, 2021 8632-8643*
- Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*
- Security Requirements and Solutions for IoT Gateways: A Comprehensive Study. *Lins, F.A.A.*, +, *JIoT June 1, 2021 8667-8679*
- Security-Aware Deployment Optimization of Cloud-Edge Systems in Industrial IoT. *Casola, V.*, +, *JIoT Aug. 15, 2021 12724-12733*
- Selective Sharing of Outsourced Encrypted Data in Cloud Environments. *Sifah, E.B.*, +, *JIoT Sept. 15, 2021 14141-14155*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Smart Applications in Edge Computing: Overview on Authentication and Data Security. *Li, X.*, +, *JIoT March 15, 2021 4063-4080*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A.*, +, *JIoT July 1, 2021 10792-10806*
- Social Interaction and Information Diffusion in Social Internet of Things: Dynamics, Cloud-Edge, Traceability. *Yi, Y.*, +, *JIoT Feb. 15, 2021 2177-2192*
- SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A.*, +, *JIoT April 1, 2021 5185-5193*
- STEC-IoT: A Security Tactic by Virtualizing Edge Computing on IoT. *Zhang, P.*, +, *JIoT Feb. 15, 2021 2459-2467*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*
- Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P.*, +, *JIoT May 1, 2021 7562-7574*
- The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Usecase. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*
- Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R.*, +, *JIoT Dec. 15, 2021 17568-17583*
- Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*
- Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K.*, +, *JIoT Aug. 15, 2021 12623-12637*
- Toward Oblivious Location-Based *k*-Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y.*, +, *JIoT Nov. 15, 2021 16243-16255*
- Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X.*, +, *JIoT Aug. 15, 2021 12902-12918*
- Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H.*, +, *JIoT March 15, 2021 4762-4774*
- Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J.*, +, *JIoT Dec. 1, 2021 17029-17042*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- Cochannel interference**
- Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I.*, +, *JIoT March 1, 2021 3605-3618*
- Code division multiple access**
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial–Temporal Structure-Enhanced Approach. *Wu, L., +, JIoT Aug. 1, 2021 12339-12349*

Code division multiplexing

Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X., +, JIoT Aug. 1, 2021 12093-12105*

Cognition

Autonomous IoT Device Management Systems: Structured Review and Generalized Cognitive Model. *Braten, A.E., +, JIoT March 15, 2021 4275-4290*

Cognitive radio

A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T., +, JIoT May 1, 2021 7423-7436*

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T., +, JIoT Oct. 15, 2021 15486-15499*

Analysis of a Network Stability-Aware Clustering Protocol for Cognitive Radio Sensor Networks. *Shakhov, V., +, JIoT Aug. 1, 2021 12476-12477*

Cognitive Neighbor Discovery With Directional Antennas in Self-Organizing IoT Networks. *Bai, W., +, JIoT April 15, 2021 6865-6877*

Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H., +, JIoT April 1, 2021 5544-5557*

Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R., +, JIoT April 15, 2021 6720-6732*

ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks. *Wang, J., +, JIoT Feb. 1, 2021 2078-2079*

Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R., +, JIoT Sept. 1, 2021 13593-13607*

Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A., +, JIoT March 15, 2021 4461-4471*

Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D., +, JIoT June 1, 2021 9330-9343*

Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y., +, JIoT May 15, 2021 8159-8172*

Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H., +, JIoT April 1, 2021 5632-5644*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*

Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X., +, JIoT Oct. 15, 2021 15049-15058*

Coils

iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils. *Li, K., +, JIoT April 15, 2021 6637-6648*

Collaboration

Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G., +, JIoT Dec. 15, 2021 17747-17761*

Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B., +, JIoT Dec. 1, 2021 16853-16862*

Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H., +, JIoT Dec. 1, 2021 16972-16983*

Collaborative filtering

Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y., +, JIoT May 15, 2021 8223-8233*

Collaborative work

Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S., +, JIoT Dec. 15, 2021 17460-17475*

Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C., +, JIoT Dec. 15, 2021 17308-17319*

Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W., +, JIoT March 1, 2021 3053-3056*

Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W., +, JIoT Nov. 15, 2021 16256-16268*

Collision avoidance

A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J., +, JIoT March 15, 2021 4403-4416*

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T., +, JIoT March 1, 2021 3939-3954*

Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L., +, JIoT July 15, 2021 11548-11560*

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P., +, JIoT March 15, 2021 4448-4460*

Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y., +, JIoT May 15, 2021 8488-8503*

Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y., +, JIoT July 15, 2021 11427-11439*

Combinatorial mathematics

Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W., +, JIoT March 1, 2021 3576-3586*

Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B., +, JIoT July 15, 2021 11052-11064*

Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X., +, JIoT April 1, 2021 6024-6038*

Commerce

AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H., +, JIoT April 15, 2021 6167-6177*

Communication channels

GraphComm: Efficient Graph Convolutional Communication for Multiagent Cooperation. *Yuan, Q., +, JIoT Nov. 15, 2021 16359-16369*

Communication complexity

A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J., +, JIoT May 1, 2021 7521-7530*

A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F., +, JIoT Feb. 15, 2021 2468-2482*

Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y., +, JIoT Feb. 15, 2021 2900-2909*

Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L., +, JIoT July 1, 2021 10922-10939*

Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H., +, JIoT March 15, 2021 4762-4774*

Communication system security

Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*

Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q., +, JIoT Nov. 15, 2021 16473-16485*

Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F., +, JIoT Dec. 15, 2021 17669-17677*

Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P., +, JIoT Nov. 1, 2021 15749-15761*

Communication systems

Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*

Competitive algorithms

Competitive Age of Information in Dynamic IoT Networks. *Yu, D., +, JIoT Oct. 15, 2021 15160-15169*

Complex networks

A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J., +, JIoT May 1, 2021 7521-7530*

AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H., +, JIoT April 15, 2021 6167-6177*

Complexity theory

Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cyberwin-Driven 6G Network. *Shen, S.*, +, *JIoT Nov. 15, 2021 16269-16278*

Compressed sensing

A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*

Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*

Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C.*, +, *JIoT Oct. 15, 2021 15531-15541*

Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing. *Zhang, J.*, +, *JIoT Feb. 15, 2021 3027-3041*

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*

Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M.*, +, *JIoT July 15, 2021 11732-11742*

Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*

Single Sensor to Estimate DOA With Programmable Metasurface. *Lin, M.*, +, *JIoT June 15, 2021 10187-10197*

Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT. *Han, C.*, +, *JIoT Sept. 1, 2021 13555-13566*

Computational complexity

A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F.*, +, *JIoT April 15, 2021 6519-6535*

A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S.*, +, *JIoT Jan. 15, 2021 1082-1094*

A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S.*, +, *JIoT Oct. 15, 2021 15620-15627*

Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y.*, +, *JIoT May 15, 2021 8173-8190*

Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*

Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*

Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*

Comparative Performance Analysis of Lightweight Cryptography Algorithms for IoT Sensor Nodes. *Fotovvat, A.*, +, *JIoT May 15, 2021 8279-8290*

Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*

D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y.*, +, *JIoT Aug. 15, 2021 12490-12504*

Deep Q-Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*

Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*

Distributed and Collaborative Localization for Swarming UAVs. *Chen, R.*, +, *JIoT March 15, 2021 5062-5074*

Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*

Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z.*, +, *JIoT Aug. 15, 2021 12679-12693*

Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L.*, +, *JIoT Feb. 15, 2021 2330-2341*

EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing. *Wu, H.*, +, *JIoT Feb. 15, 2021 2163-2176*

Efficient Approaches to Top-r Influential Community Search. *Luo, W.*, +, *JIoT Aug. 15, 2021 12650-12657*

Efficient Task Assignment for Multiple Vehicles With Partially Unreachable Target Locations. *Bai, X.*, +, *JIoT March 1, 2021 3730-3742*

Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*

Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K.*, +, *JIoT April 15, 2021 6709-6719*

Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X.*, +, *JIoT July 1, 2021 10843-10856*

Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B.*, +, *JIoT Oct. 15, 2021 15303-15316*

Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*

FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*

Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X.*, +, *JIoT Aug. 15, 2021 13115-13125*

Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*

Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R.*, +, *JIoT March 15, 2021 4697-4710*

Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*

Incentivizing Platform-User Interactions for Crowdsensing. *Xiang, C.*, +, *JIoT May 15, 2021 8314-8327*

Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*

Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*

Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. *Han, P.*, +, *JIoT July 1, 2021 10557-10572*

Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S.*, +, *JIoT Feb. 15, 2021 2135-2149*

Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X.*, +, *JIoT June 15, 2021 9511-9522*

Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*

Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*

LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*

Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*

Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D.*, +, *JIoT July 15, 2021 11415-11426*

Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I.*, +, *JIoT March 1, 2021 3605-3618*

Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing. *Zhu, X.*, +, *JIoT Oct. 15, 2021 15582-15595*

NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L.*, +, *JIoT May 15, 2021 8107-8118*

NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*

Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*

PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J.*, +, *JIoT March 1, 2021 3310-3322*

Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F.*, +, *JIoT April 1, 2021 5211-5218*

Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*

Rateless TLRCM for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*

Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*

Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*

Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*

Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*

The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Use Case. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H.*, +, *JIoT April 15, 2021 6692-6708*

Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*

Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*

UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*

Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*

Computational efficiency

An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L.*, +, *JIoT Dec. 1, 2021 17120-17130*

Computational fluid dynamics

Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M.*, +, *JIoT June 1, 2021 9373-9382*

Computational modeling

5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J.*, +, *JIoT Aug. 1, 2021 12467-12475*

A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J.*, +, *JIoT Dec. 15, 2021 17508-17524*

A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*

Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S.*, +, *JIoT Nov. 15, 2021 16269-16278*

Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*

Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A.*, +, *JIoT Nov. 1, 2021 15704-15748*

Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B.*, +, *JIoT Dec. 1, 2021 16853-16862*

Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G.*, +, *JIoT Dec. 1, 2021 16894-16901*

Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A.*, +, *JIoT Dec. 1, 2021 16963-16971*

Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S.*, +, *JIoT Dec. 15, 2021 17460-17475*

Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C.*, +, *JIoT Dec. 15, 2021 17308-17319*

Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W.*, +, *JIoT Dec. 15, 2021 17691-17704*

MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A.*, +, *JIoT Dec. 15, 2021 17778-17789*

Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W.*, +, *JIoT Nov. 15, 2021 16256-16268*

Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H.*, +, *JIoT Dec. 1, 2021 16972-16983*

Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J.*, +, *JIoT Dec. 1, 2021 17029-17042*

Computer architecture

Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A.*, +, *JIoT Dec. 15, 2021 17395-17402*

Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A.*, +, *JIoT Nov. 15, 2021 16548-16558*

An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z.*, +, *JIoT Dec. 1, 2021 16779-16786*

Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N.*, +, *JIoT Nov. 15, 2021 16452-16472*

I-VISE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y.*, +, *JIoT Nov. 1, 2021 16181-16190*

MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A.*, +, *JIoT Nov. 1, 2021 15762-15775*

On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N.*, +, *JIoT Dec. 15, 2021 17382-17394*

Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P.*, +, *JIoT May 1, 2021 7562-7574*

Computer centers

A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*

A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *Ali, B.*, +, *JIoT March 1, 2021 3822-3830*

A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*

An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P.*, +, *JIoT Aug. 15, 2021 12597-12609*

Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services. *Wang, L.*, +, *JIoT May 15, 2021 8097-8106*

Design, Resource Management, and Evaluation of Fog Computing Systems: A Survey. *Martinez, I.*, +, *JIoT Feb. 15, 2021 2494-2516*

EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. *Yang, S.*, +, *JIoT June 15, 2021 9580-9593*

Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R.*, +, *JIoT Aug. 1, 2021 12410-12421*

Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*

Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M.*, +, *JIoT Sept. 1, 2021 13690-13702*

Power-Efficient Software-Defined Data Center Network. *Zhao, Y.*, +, *JIoT June 15, 2021 10018-10033*

Task Allocation Framework for Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*

Computer crime

ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W.*, +, *JIoT June 15, 2021 9622-9633*

- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magata, N.*, +, *JIoT April 15, 2021 6393-6405*
- PLCDefender: Improving Remote Attestation Techniques for PLCs Using Physical Model. *Salehi, M.*, +, *JIoT May 1, 2021 7372-7379*
- Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*
- Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N.*, +, *JIoT Sept. 1, 2021 13712-13722*
- Computer games**
- Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X.*, +, *JIoT Feb. 1, 2021 1373-1387*
- MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices. *Jin, R.*, +, *JIoT July 1, 2021 10755-10765*
- Computer network management**
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J.*, +, *JIoT July 15, 2021 11219-11232*
- SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K.*, *JIoT May 1, 2021 7407-7422*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L.*, +, *JIoT July 15, 2021 11233-11248*
- Computer network performance evaluation**
- An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M.*, +, *JIoT Feb. 1, 2021 1572-1584*
- EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S.*, +, *JIoT May 15, 2021 8474-8487*
- High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1071-1081*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X.*, +, *JIoT Feb. 15, 2021 2722-2735*
- Computer network reliability**
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*
- A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O.*, +, *JIoT March 15, 2021 4081-4104*
- AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X.*, +, *JIoT May 15, 2021 8464-8473*
- Competitive Age of Information in Dynamic IoT Networks. *Yu, D.*, +, *JIoT Oct. 15, 2021 15160-15169*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*
- E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L.*, +, *JIoT July 15, 2021 11290-11304*
- Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework. *Rauf, B.*, +, *JIoT April 15, 2021 6359-6371*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Computer network security**
- A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J.*, +, *JIoT May 1, 2021 7546-7561*
- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L.*, +, *JIoT Feb. 15, 2021 2395-2408*
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. *Muzammal, S.M.*, +, *JIoT March 15, 2021 4186-4210*
- A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L.*, +, *JIoT Oct. 15, 2021 15249-15258*
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*
- A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature. *Hagos, D.H.*, +, *JIoT March 1, 2021 3534-3553*
- A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S.*, +, *JIoT May 15, 2021 8411-8422*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*
- A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N.*, +, *JIoT Jan. 15, 2021 1123-1139*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*
- A Quantitative Study of DDoS and E-DDoS Attacks on WiFi Smart Home Devices. *Tushir, B.*, +, *JIoT April 15, 2021 6282-6292*
- A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M.*, +, *JIoT June 15, 2021 9611-9621*
- A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K.*, +, *JIoT April 15, 2021 6840-6852*
- A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. *Alwarafy, A.*, +, *JIoT March 15, 2021 4004-4022*
- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*
- Addressing Security and Privacy Issues of IoT Using Blockchain Technology. *Mohanta, B.K.*, +, *JIoT Jan. 15, 2021 881-888*
- ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks. *Sudheera, K.L.K.*, +, *JIoT April 15, 2021 6591-6607*
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT May 1, 2021 7360-7371*
- ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W.*, +, *JIoT June 15, 2021 9622-9633*
- An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12231-12241*
- Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M.*, +, *JIoT Sept. 15, 2021 13939-13949*
- Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*
- Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B.*, +, *JIoT March 15, 2021 4157-4185*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T.*, +, *JIoT July 1, 2021 10766-10778*
- Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things. *Li, Z.*, +, *JIoT Jan. 15, 2021 844-859*
- Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*
- CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B.*, +, *JIoT Oct. 1, 2021 15010-15023*
- Collective Memory for Detecting Nonconcurrent Clones: A Localized Approach for Global Topology and Identity Tracing in IoT Networks. *Xu, J.*, +, *JIoT April 1, 2021 5762-5777*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B.*, +, *JIoT April 1, 2021 5645-5656*

- Context-Aware Adaptive Route Mutation Scheme: A Reinforcement Learning Approach. *Xu, C.*, +, *JIoT Sept. 1, 2021 13528-13541*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y.*, +, *JIoT Feb. 15, 2021 2300-2317*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F.*, +, *JIoT July 15, 2021 11678-11689*
- Deep Q -Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*
- DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y.*, +, *JIoT Feb. 1, 2021 1504-1518*
- Design and Prototype Implementation of a Blockchain-Enabled LoRa System With Edge Computing. *Hou, L.*, +, *JIoT Feb. 15, 2021 2419-2430*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B.*, +, *JIoT April 1, 2021 5744-5761*
- Developing a Security Testbed for Industrial Internet of Things. *Al-Hawawreh, M.*, +, *JIoT April 1, 2021 5558-5573*
- Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B.*, +, *JIoT Oct. 15, 2021 15140-15147*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L.*, +, *JIoT July 15, 2021 11290-11304*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H.*, +, *JIoT Oct. 1, 2021 14787-14796*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J.*, +, *JIoT March 1, 2021 3438-3445*
- Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework. *Rauf, B.*, +, *JIoT April 15, 2021 6359-6371*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A.*, +, *JIoT March 15, 2021 4485-4497*
- Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J.*, +, *JIoT April 1, 2021 5794-5805*
- Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*
- Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y.*, +, *JIoT Feb. 15, 2021 3000-3013*
- Intrusion Detection for Cyber-Physical Systems Using Generative Adversarial Networks in Fog Environment. *Freitas de Araujo-Filho, P.*, +, *JIoT April 15, 2021 6247-6256*
- IoT-Praetor: Undesired Behaviors Detection for IoT Devices. *Wang, J.*, +, *JIoT Jan. 15, 2021 927-940*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W.*, +, *JIoT Aug. 15, 2021 12758-12770*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- Lightweight Cryptographic Protocols for IoT-Constrained Devices: A Survey. *Khan, M.N.*, +, *JIoT March 15, 2021 4132-4156*
- Locality-Sensitive IoT Network Traffic Fingerprinting for Device Identification. *Charyyev, B.*, +, *JIoT Feb. 1, 2021 1272-1281*
- Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M.*, +, *JIoT Jan. 1, 2021 407-417*
- Machine-Learning-Based Efficient and Secure RSU Placement Mechanism for Software-Defined-IoV. *Anbalagan, S.*, +, *JIoT Sept. 15, 2021 13950-13957*
- MTD, Where Art Thou? A Systematic Review of Moving Target Defense Techniques for IoT. *Navas, R.E.*, +, *JIoT May 15, 2021 7818-7832*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. *Farhat, J.*, +, *JIoT Oct. 1, 2021 14672-14682*
- P-HIP: A Lightweight and Privacy-Aware Host Identity Protocol for Internet of Things. *Hossain, M.*, +, *JIoT Jan. 1, 2021 555-571*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J.*, +, *JIoT March 1, 2021 3310-3322*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L.*, +, *JIoT Oct. 1, 2021 14731-14745*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*
- PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*
- Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM. *Reising, D.*, +, *JIoT May 15, 2021 8356-8371*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M.*, +, *JIoT March 1, 2021 3619-3635*
- SDN-Enabled Secure IoT Architecture. *Karmakar, K.K.*, +, *JIoT April 15, 2021 6549-6564*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F.*, +, *JIoT May 15, 2021 8056-8063*
- Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S.*, +, *JIoT July 1, 2021 10815-10829*
- Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*
- Securing 6LoWPAN Neighbor Discovery. *Park, W.*, +, *JIoT Sept. 1, 2021 13677-13689*
- Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*
- Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12251-12265*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A.*, +, *JIoT July 1, 2021 10792-10806*
- SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks. *Yang, N.*, +, *JIoT Aug. 1, 2021 12119-12136*
- Softwarized IoT Network Immunity Against Eavesdropping With Programmable Data Planes. *Liu, G.*, +, *JIoT April 15, 2021 6578-6590*
- SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*
- STEC-IoT: A Security Tactic by Virtualizing Edge Computing on IoT. *Zhang, P.*, +, *JIoT Feb. 15, 2021 2459-2467*
- SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things. *Kayas, G.*, +, *JIoT July 15, 2021 11561-11580*
- SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Merhad, K.*, *JIoT May 1, 2021 7407-7422*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A.*, +, *JIoT Oct. 1, 2021 14874-14895*
- Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things. *Borgiani, V.*, +, *JIoT March 15, 2021 4569-4578*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*

Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*

Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y.*, +, *JIoT Feb. 15, 2021 2627-2634*

Computer networks

An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M.*, +, *JIoT Feb. 1, 2021 1572-1584*

IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L.*, +, *JIoT April 1, 2021 5164-5171*

Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*

Computer security

The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A.*, +, *JIoT Dec. 15, 2021 17236-17260*

Computer vision

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I.*, +, *JIoT July 1, 2021 10318-10326*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y.*, +, *JIoT April 15, 2021 6337-6347*

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J.*, +, *JIoT Jan. 1, 2021 428-442*

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S.*, +, *JIoT Sept. 1, 2021 13251-13265*

Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*

Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*

Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X.*, +, *JIoT May 1, 2021 7466-7475*

EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*

EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls. *Liu, M.*, +, *JIoT April 1, 2021 5585-5598*

MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*

Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M.*, +, *JIoT June 1, 2021 9177-9188*

Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y.*, +, *JIoT Feb. 1, 2021 1740-1748*

Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data. *Khan, N.*, +, *JIoT Jan. 1, 2021 596-609*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14372-14384*

Computerized instrumentation

Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*

Utility-Theory-Based Optimal Resource Consumption for Inference in IoT Systems. *Geng, B.*, +, *JIoT Aug. 1, 2021 12279-12288*

Computerized monitoring

Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*

Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*

Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P.*, +, *JIoT March 1, 2021 3384-3393*

Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks. *Deese, A.S.*, +, *JIoT Jan. 1, 2021 222-231*

Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*

SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y.*, +, *JIoT Feb. 15, 2021 2762-2774*

Computerized tomography

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W.*, +, *JIoT April 1, 2021 5274-5284*

Concave programming

Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*

Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X.*, +, *JIoT June 1, 2021 9233-9243*

Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*

Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*

Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*

Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021 9920-9933*

Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*

Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*

Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*

Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*

Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*

Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*

Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*

Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*

Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*

Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*

Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*

Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*

UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*

URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Condition monitoring

- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C.*, +, *JIoT May 1, 2021 7510-7520*
- A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*
- Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y.*, +, *JIoT June 15, 2021 9594-9602*
- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*
- Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A.*, +, *JIoT March 15, 2021 4433-4447*
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*
- Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J.*, +, *JIoT Oct. 15, 2021 15284-15291*
- Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*
- RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*

Conducting polymers

- Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*
- Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

Configuration management

- Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M.*, +, *JIoT Feb. 15, 2021 2116-2123*

Connected vehicles

- Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S.*, +, *JIoT Nov. 15, 2021 16269-16278*

Consensus algorithm

- The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A.*, +, *JIoT Dec. 15, 2021 17236-17260*

Constraint handling

- Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G.*, +, *JIoT Sept. 1, 2021 13723-13736*

Consumer electronics

- Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F.*, +, *JIoT March 15, 2021 4228-4249*

Contracts

- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y.*, +, *JIoT April 1, 2021 6089-6100*
- Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W.*, +, *JIoT April 15, 2021 6305-6312*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). *Li, J.*, +, *JIoT June 15, 2021 10052-10070*

- Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B.*, +, *JIoT Dec. 1, 2021 16853-16862*
- Hierarchical Pricing Mechanism With Financial Stability for Decentralized Crowdsourcing: A Smart Contract Approach. *Zhang, W.*, +, *JIoT Jan. 15, 2021 750-765*
- Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. *Wu, M.*, +, *JIoT July 1, 2021 10639-10651*
- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N.*, +, *JIoT Dec. 15, 2021 17382-17394*
- Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P.*, +, *JIoT Nov. 15, 2021 16559-16570*
- Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles. *Qi, H.*, +, *JIoT March 15, 2021 4472-4484*
- Security Challenges and Opportunities for Smart Contracts in Internet of Things: A Survey. *Peng, K.*, +, *JIoT Aug. 1, 2021 12004-12020*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A.*, +, *JIoT July 1, 2021 10792-10806*

Control engineering computing

- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*
- An Ontology-Based System to Collect WSN-UAS Data Effectively. *Martin-Lammerding, D.*, +, *JIoT March 1, 2021 3636-3652*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P.*, +, *JIoT March 1, 2021 3384-3393*
- Discrete-Time Queueing Model of Age of Information With Multiple Information Sources. *Akar, N.*, +, *JIoT Oct. 1, 2021 14531-14542*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S.*, +, *JIoT June 15, 2021 10209-10219*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control. *Gao, X.*, +, *JIoT Oct. 1, 2021 14683-14704*
- Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B.*, +, *JIoT June 15, 2021 9878-9893*
- PLCDefender: Improving Remote Attestation Techniques for PLCs Using Physical Model. *Salehi, M.*, +, *JIoT May 1, 2021 7372-7379*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J.*, +, *JIoT March 1, 2021 3088-3098*
- Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications. *Liu, Y.*, +, *JIoT Feb. 1, 2021 1322-1333*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*

- Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y.*, +, *JIoT Sept. 15, 2021 14039-14050*
- Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things. *Borgiani, V.*, +, *JIoT March 15, 2021 4569-4578*
- Control system security**
- Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack. *Li, Y.*, +, *JIoT Oct. 15, 2021 15522-15530*
- Control system synthesis**
- A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- Control systems**
- Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*
- Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L.*, +, *JIoT Dec. 1, 2021 17172-17185*
- Controller area networks**
- A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*
- Convergence**
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H.*, +, *JIoT Jan. 1, 2021 197-210*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D.*, +, *JIoT Nov. 15, 2021 16301-16312*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X.*, +, *JIoT July 1, 2021 10264-10279*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L.*, +, *JIoT May 1, 2021 7485-7496*
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C.*, +, *JIoT Dec. 15, 2021 17308-17319*
- UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z.*, +, *JIoT Aug. 1, 2021 12289-12310*
- Convergence of numerical methods**
- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*
- Convex programming**
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X.*, +, *JIoT May 15, 2021 8191-8209*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*
- Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L.*, +, *JIoT March 15, 2021 4317-4328*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K.*, +, *JIoT Feb. 1, 2021 1347-1357*
- Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B.*, +, *JIoT Oct. 15, 2021 15140-15147*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021 9920-9933*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*
- Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*
- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. *Forouzes, M.*, +, *JIoT May 1, 2021 7170-7181*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L.*, +, *JIoT April 15, 2021 6677-6691*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valulahi, I.*, +, *JIoT March 1, 2021 3605-3618*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*

Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*

Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*

Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Convolution

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L.*, +, *JIoT July 15, 2021 11357-11367*

Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T.*, +, *JIoT Nov. 1, 2021 16002-16013*

GraphComm: Efficient Graph Convolutional Communication for Multi-agent Cooperation. *Yuan, Q.*, +, *JIoT Nov. 15, 2021 16359-16369*

Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z.*, +, *JIoT Dec. 1, 2021 17000-17013*

Convolutional neural nets

A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*

An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*

Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*

Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*

Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*

Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X.*, +, *JIoT May 1, 2021 7466-7475*

Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*

Deep Siamese Cross-Residual Learning for Robust Visual Tracking. *Wu, F.*, +, *JIoT Oct. 15, 2021 15216-15227*

DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C.*, +, *JIoT April 1, 2021 5669-5681*

Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y.*, +, *JIoT June 15, 2021 9594-9602*

Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*

Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*

ESR-GAN: Environmental Signal Reconstruction Learning With Generative Adversarial Network. *Kang, X.*, +, *JIoT Jan. 1, 2021 636-646*

Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H.*, +, *JIoT June 1, 2021 9219-9232*

Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magaia, N.*, +, *JIoT April 15, 2021 6393-6405*

Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L.*, +, *JIoT May 1, 2021 7589-7599*

Leveraging Semisupervised Hierarchical Stacking Temporal Convolutional Network for Anomaly Detection in IoT Communication. *Cheng, Y.*, +, *JIoT Jan. 1, 2021 144-155*

LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z.*, +, *JIoT April 1, 2021 6012-6023*

Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network. *Xiao, G.*, +, *JIoT Aug. 15, 2021 12748-12757*

Multiple Wavelet Convolutional Neural Network for Short-Term Load Forecasting. *Liao, Z.*, +, *JIoT June 15, 2021 9730-9739*

Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T.*, +, *JIoT June 15, 2021 9634-9644*

Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B.*, +, *JIoT June 15, 2021 9878-9893*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q.*, +, *JIoT Feb. 1, 2021 2011-2026*

Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z.*, +, *JIoT May 1, 2021 7279-7287*

Secure Collaborative Deep Learning Against GAN Attacks in the Internet of Things. *Chen, Z.*, +, *JIoT April 1, 2021 5839-5849*

Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12251-12265*

SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y.*, +, *JIoT Feb. 15, 2021 2762-2774*

ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications. *Abdel-Basset, M.*, +, *JIoT March 15, 2021 4969-4979*

TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M.*, +, *JIoT July 1, 2021 10336-10346*

Toward Deep Transfer Learning in Industrial Internet of Things. *Liu, X.*, +, *JIoT Aug. 1, 2021 12163-12175*

Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X.*, +, *JIoT April 15, 2021 6187-6196*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14372-14384*

Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things. *Zhang, Z.*, +, *JIoT Oct. 15, 2021 15259-15266*

Convolutional neural networks

MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A.*, +, *JIoT Dec. 15, 2021 17778-17789*

Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D.*, +, *JIoT Dec. 15, 2021 17345-17355*

Cooperative communication

A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T.*, +, *JIoT May 1, 2021 7423-7436*

AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L.*, +, *JIoT May 15, 2021 7889-7901*

Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*

Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks. *Choi, H.*, +, *JIoT Feb. 1, 2021 1611-1622*

Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*

Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L.*, +, *JIoT March 15, 2021 4317-4328*

- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relay-ite-Based Mobile-Edge Computing Systems. *Hu, D.*, +, *JIoT July 15, 2021 11487-11502*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X.*, +, *JIoT Jan. 1, 2021 332-344*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J.*, +, *JIoT Oct. 15, 2021 15126-15139*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*
- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y.*, +, *JIoT Jan. 15, 2021 791-801*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L.*, +, *JIoT Sept. 1, 2021 13355-13366*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*
- Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT. *Han, C.*, +, *JIoT Sept. 1, 2021 13555-13566*
- Cooperative systems**
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X.*, +, *JIoT Oct. 15, 2021 15180-15190*
- Coplanar waveguides**
- A Novel “Smart Skin” Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*
- Correlation**
- Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A.*, +, *JIoT Nov. 1, 2021 16108-16120*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- The Impact of Covid-19 on Smartphone Usage. *Li, T.*, +, *JIoT Dec. 1, 2021 16723-16733*
- Correlation methods**
- Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G.*, +, *JIoT Sept. 1, 2021 13774-13788*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*
- Cost reduction**
- A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost. *Zhao, Y.*, +, *JIoT June 1, 2021 8865-8882*
- CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F.*, +, *JIoT March 1, 2021 3075-3087*
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*
- Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P.*, +, *JIoT Nov. 15, 2021 16559-16570*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Costing**
- Incentivizing Platform–User Interactions for Crowdsensing. *Xiang, C.*, +, *JIoT May 15, 2021 8314-8327*
- Counterfeit goods**
- An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y.*, +, *JIoT April 15, 2021 6789-6799*
- Coupled circuits**
- Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V.*, +, *JIoT March 15, 2021 5009-5022*
- Covariance matrices**
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*
- WiCrowd: Counting the Directional Crowd With a Single Wireless Link. *Zhang, L.*, +, *JIoT May 15, 2021 8644-8656*
- COVID-19**
- ζboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D.*, +, *JIoT Nov. 1, 2021 15977-15989*
- A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M.*, +, *JIoT Nov. 1, 2021 15694-15703*
- A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J.*, +, *JIoT Nov. 1, 2021 15807-15817*
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J.*, +, *JIoT Nov. 1, 2021 15839-15846*
- An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A.*, +, *JIoT Nov. 1, 2021 15847-15854*
- An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. *Ahmed, I.*, +, *JIoT Nov. 1, 2021 15855-15862*
- Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K.*, +, *JIoT Nov. 1, 2021 16035-16046*
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P.*, +, *JIoT Nov. 1, 2021 15863-15874*
- Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A.*, +, *JIoT Nov. 1, 2021 15652-15662*
- Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T.*, +, *JIoT Nov. 1, 2021 16002-16013*
- Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F.*, +, *JIoT Nov. 1, 2021 15892-15905*
- LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M.*, +, *JIoT Dec. 1, 2021 16863-16871*
- Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H.*, +, *JIoT Nov. 1, 2021 15683-15693*
- Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C.*, +, *JIoT Nov. 1, 2021 15906-15918*
- Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X.*, +, *JIoT Nov. 1, 2021 15929-15938*
- Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X.*, +, *JIoT Nov. 1, 2021 15939-15952*
- Special Issue on “Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond”. *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*
- The Impact of Covid-19 on Smartphone Usage. *Li, T.*, +, *JIoT Dec. 1, 2021 16723-16733*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*

- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q., +, JIoT Nov. 1, 2021 15953-15964*
- Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y., +, JIoT Nov. 1, 2021 15965-15976*
- Crack detection**
- A Novel “Smart Skin” Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S., +, JIoT March 1, 2021 3955-3971*
- Critical infrastructure**
- Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A., +, JIoT Nov. 15, 2021 16395-16405*
- Critical infrastructures**
- Colonel Blotto Game for Sensor Protection in Interdependent Critical Infrastructure. *Ferdowsi, A., +, JIoT Feb. 15, 2021 2857-2874*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y., +, JIoT Feb. 15, 2021 2300-2317*
- Crops**
- AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K., +, JIoT March 15, 2021 5023-5030*
- Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*
- ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G., +, JIoT March 1, 2021 3120-3129*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*
- Crowdsensing**
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P., +, JIoT Nov. 1, 2021 15863-15874*
- PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B., +, JIoT Dec. 15, 2021 17584-17595*
- Crowdsourcing**
- A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B., +, JIoT Sept. 1, 2021 13567-13581*
- Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J., +, JIoT Oct. 1, 2021 14971-14984*
- Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain. *Zhang, C., +, JIoT April 15, 2021 6624-6636*
- Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing. *Haghighatdoost, V., +, JIoT April 1, 2021 5710-5721*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C., +, JIoT May 1, 2021 7625-7637*
- Local Differential Privacy-Based Federated Learning for Internet of Things. *Zhao, Y., +, JIoT June 1, 2021 8836-8853*
- Matchmaker: Stable Task Assignment With Bounded Constraints for Crowdsourcing Platforms. *Yin, X., +, JIoT Feb. 1, 2021 1599-1610*
- SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C., +, JIoT July 1, 2021 10619-10630*
- Toward Privacy-Preserving Task Assignment for Fully Distributed Spatial Crowdsourcing. *Li, M., +, JIoT Sept. 15, 2021 13991-14002*
- Cryptographic protocols**
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y., +, JIoT Sept. 15, 2021 13958-13974*
- A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N., +, JIoT Jan. 15, 2021 1123-1139*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*
- ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W., +, JIoT June 15, 2021 9622-9633*
- Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M., +, JIoT Feb. 15, 2021 2116-2123*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S., +, JIoT Oct. 1, 2021 14797-14809*
- Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things. *Li, Z., +, JIoT Jan. 15, 2021 844-859*
- Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H., +, JIoT Aug. 1, 2021 11847-11859*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G., +, JIoT Feb. 1, 2021 1908-1920*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q., +, JIoT Aug. 15, 2021 12782-12791*
- InPPTD: A Lightweight Incentive-Based Privacy-Preserving Truth Discovery for Crowdsensing Systems. *Xue, K., +, JIoT March 15, 2021 4305-4316*
- Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S., +, JIoT Aug. 15, 2021 12716-12723*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W., +, JIoT Aug. 15, 2021 12758-12770*
- Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X., +, JIoT May 15, 2021 8234-8245*
- Lightweight Cryptographic Protocols for IoT-Constrained Devices: A Survey. *Khan, M.N., +, JIoT March 15, 2021 4132-4156*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N., +, JIoT March 1, 2021 3255-3267*
- P-HIP: A Lightweight and Privacy-Aware Host Identity Protocol for Internet of Things. *Hossain, M., +, JIoT Jan. 1, 2021 555-571*
- PGRide: Privacy-Preserving Group Ridesharing Matching in Online Ride Hailing Services. *Yu, H., +, JIoT April 1, 2021 5722-5735*
- PLGAKD: A PUF-Based Lightweight Group Authentication and Key Distribution Protocol. *Yildiz, H., +, JIoT April 1, 2021 5682-5696*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S., +, JIoT March 15, 2021 5075-5092*
- Privacy-Preserving Group Authentication for RFID Tags Using Bit-Collision Patterns. *Yang, A., +, JIoT July 15, 2021 11607-11620*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F., +, JIoT April 1, 2021 5599-5606*
- PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J., +, JIoT Sept. 1, 2021 13183-13195*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M., +, JIoT March 1, 2021 3619-3635*
- Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles. *Qi, H., +, JIoT March 15, 2021 4472-4484*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R., +, JIoT March 1, 2021 3801-3811*
- Softwarized IoT Network Immunity Against Eavesdropping With Programmable Data Planes. *Liu, G., +, JIoT April 15, 2021 6578-6590*
- SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things. *Kayas, G., +, JIoT July 15, 2021 11561-11580*
- Cryptography**
- A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M., +, JIoT March 15, 2021 4373-4388*
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J., +, JIoT June 15, 2021 10034-10046*

- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M.*, +, *JIoT July 1, 2021 10830-10842*
- A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*
- A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B.*, +, *JIoT July 1, 2021 10248-10263*
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*
- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*
- Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M.*, +, *JIoT Sept. 15, 2021 13939-13949*
- Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*
- CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B.*, +, *JIoT Oct. 1, 2021 15010-15023*
- Comparative Performance Analysis of Lightweight Cryptography Algorithms for IoT Sensor Nodes. *Fotovat, A.*, +, *JIoT May 15, 2021 8279-8290*
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B.*, +, *JIoT April 1, 2021 5645-5656*
- Confused-Modulo-Projection-Based Somewhat Homomorphic Encryption—Cryptosystem, Library, and Applications on Secure Smart Cities. *Jin, X.*, +, *JIoT April 15, 2021 6324-6336*
- Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X.*, +, *JIoT July 15, 2021 11758-11772*
- Cooperative Location Privacy in Vehicular Networks: Why Simple Mix Zones are Not Enough. *Khodaei, M.*, +, *JIoT May 15, 2021 7985-8004*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y.*, +, *JIoT April 1, 2021 5973-5984*
- DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y.*, +, *JIoT Feb. 1, 2021 1504-1518*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R.*, +, *JIoT April 15, 2021 6425-6436*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S.*, +, *JIoT Feb. 15, 2021 2886-2899*
- Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P.*, +, *JIoT July 1, 2021 10963-10972*
- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*
- Efficient Security Algorithm for Power-Constrained IoT Devices. *Mamvong, J.N.*, +, *JIoT April 1, 2021 5498-5509*
- Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation. *Li, G.*, +, *JIoT Jan. 1, 2021 357-369*
- ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things. *Li, D.*, +, *JIoT May 1, 2021 7229-7240*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Leaky Nets: Recovering Embedded Neural Network Models and Inputs Through Simple Power and Timing Side-Channels—Attacks and Defenses. *Maji, S.*, +, *JIoT Aug. 1, 2021 12079-12092*
- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S.*, +, *JIoT July 1, 2021 10706-10713*
- Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT. *Gupta, N.*, +, *JIoT May 1, 2021 7182-7191*
- Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L.*, +, *JIoT Jan. 1, 2021 156-167*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R.*, +, *JIoT June 1, 2021 8949-8963*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B.*, +, *JIoT Dec. 15, 2021 17584-17595*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L.*, +, *JIoT Oct. 1, 2021 14731-14745*
- Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A.*, +, *JIoT Nov. 15, 2021 16613-16622*
- Scalar Product Lattice Computation for Efficient Privacy-Preserving Systems. *Rahulamathavan, Y.*, +, *JIoT Feb. 1, 2021 1417-1427*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F.*, +, *JIoT May 15, 2021 8056-8063*
- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W.*, +, *JIoT May 15, 2021 8119-8132*
- Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W.*, +, *JIoT May 15, 2021 8632-8643*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*
- Selective Sharing of Outsourced Encrypted Data in Cloud Environments. *Sifah, E.B.*, +, *JIoT Sept. 15, 2021 14141-14155*
- Shadow: A Lightweight Block Cipher for IoT Nodes. *Guo, Y.*, +, *JIoT Aug. 15, 2021 13014-13023*
- SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*
- The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A.*, +, *JIoT Dec. 15, 2021 17236-17260*
- Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*
- Toward Privacy-Preserving Task Assignment for Fully Distributed Spatial Crowdsourcing. *Li, M.*, +, *JIoT Sept. 15, 2021 13991-14002*
- Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X.*, +, *JIoT Aug. 15, 2021 12902-12918*
- Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H.*, +, *JIoT March 15, 2021 4762-4774*
- Crystal oscillators**
- QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T.*, +, *JIoT Feb. 1, 2021 1846-1858*
- Customer relationship management**
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT May 1, 2021 7360-7371*
- CW radar**
- 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M.*, +, *JIoT July 15, 2021 11065-11077*
- Cyber-physical systems**
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- Blockchain-Enabled Cyber-Physical Systems: A Review. *Zhao, W.*, +, *JIoT March 15, 2021 4023-4034*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*

- Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. *Kak, A.*, +, *JIoT Feb. 1, 2021 1749-1768*
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A.*, +, *JIoT Sept. 1, 2021 13278-13290*
- Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaikhan, A.*, +, *JIoT April 1, 2021 6039-6052*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N.*, +, *JIoT Sept. 1, 2021 13712-13722*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*

D

Data acquisition

- A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*
- A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. *Zhou, B.*, +, *JIoT May 1, 2021 7203-7213*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G.*, +, *JIoT Nov. 15, 2021 16440-16451*
- DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D.*, +, *JIoT July 15, 2021 11666-11677*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X.*, +, *JIoT Nov. 15, 2021 16535-16547*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C.*, +, *JIoT Aug. 15, 2021 12806-12825*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H.*, +, *JIoT July 15, 2021 11514-11525*
- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*
- Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y.*, +, *JIoT Oct. 1, 2021 14999-15009*

Data aggregation

- A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JIoT Aug. 1, 2021 12360-12374*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*
- Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X.*, +, *JIoT May 15, 2021 8234-8245*
- Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M.*, +, *JIoT July 15, 2021 11732-11742*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios. *Zhu, L.*, +, *JIoT Aug. 1, 2021 12106-12118*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F.*, +, *JIoT May 15, 2021 8056-8063*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Data analysis

- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*
- A Low-Cost Two-Tier Fog Computing Testbed for Streaming IoT-Based Applications. *Nguyen, S.*, +, *JIoT April 15, 2021 6928-6939*
- A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*
- A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021 12540-12549*
- A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*
- Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT. *Han, G.*, +, *JIoT April 1, 2021 5219-5229*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z.*, +, *JIoT April 1, 2021 5350-5359*
- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L.*, +, *JIoT Sept. 15, 2021 13805-13824*
- Consensus Algorithms and Deep Reinforcement Learning in Energy Market: A Review. *Jogunola, O.*, +, *JIoT March 15, 2021 4211-4227*
- Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N.*, +, *JIoT May 1, 2021 7270-7278*
- Cost-Effective Bad Synchronophaser Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*
- Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M.*, +, *JIoT April 1, 2021 5953-5972*
- Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*
- DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT. *Kok, I.*, +, *JIoT Jan. 1, 2021 232-243*
- Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus. *Yu, H.*, +, *JIoT Nov. 1, 2021 16096-16107*
- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R.*, +, *JIoT April 15, 2021 6425-6436*
- Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q.*, +, *JIoT Nov. 15, 2021 16473-16485*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*
- Hybrid Decentralized Data Analytics in Edge-Computing-Empowered IoT Networks. *Zhao, L.*, +, *JIoT May 1, 2021 7706-7716*
- Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. *Chiang, Y.*, +, *JIoT Oct. 1, 2021 14435-14446*
- Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L.*, +, *JIoT May 1, 2021 7589-7599*
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*
- Monotone Split and Conquer for Anomaly Detection in IoT Sensory Data. *Dang, T.*, +, *JIoT Oct. 15, 2021 15468-15485*
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*
- Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U.*, +, *JIoT Dec. 15, 2021 17333-17344*
- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J.*, +, *JIoT March 1, 2021 3088-3098*
- Robust Learning-Enabled Intelligence for the Internet of Things: A Survey From the Perspectives of Noisy Data and Adversarial Examples. *Wu, Y.*, *JIoT June 15, 2021 9568-9579*
- Toward Deep Transfer Learning in Industrial Internet of Things. *Liu, X.*, +, *JIoT Aug. 1, 2021 12163-12175*

Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X.*, +, *JIoT March 15, 2021 4526-4539*
 Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy. *Liang, S.D.*, *JIoT Oct. 15, 2021 15267-15275*

Data collection

Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L.*, +, *JIoT Dec. 1, 2021 16787-16800*

Aol-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M.*, +, *JIoT Dec. 15, 2021 17275-17289*

Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A.*, +, *JIoT Nov. 15, 2021 16692-16704*

Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A.*, +, *JIoT Nov. 15, 2021 16680-16691*

The Impact of Covid-19 on Smartphone Usage. *Li, T.*, +, *JIoT Dec. 1, 2021 16723-16733*

Data communication

Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*
 Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X.*, +, *JIoT Oct. 15, 2021 15107-15116*

Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*

EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*

Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y.*, +, *JIoT Oct. 15, 2021 15148-15159*

On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. *Suhail, S.*, +, *JIoT Jan. 1, 2021 1-17*

Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*

Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y.*, +, *JIoT Dec. 15, 2021 17762-17777*

Data communications

Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. *Debbah, M.*, +, *JIoT June 15, 2021 9774-9775*

Data compression

A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P.*, +, *JIoT July 15, 2021 11476-11486*

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S.*, +, *JIoT Sept. 1, 2021 13251-13265*

Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A.*, +, *JIoT March 15, 2021 4433-4447*

Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L.*, +, *JIoT April 15, 2021 6757-6770*

Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*

Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M.*, +, *JIoT July 15, 2021 11732-11742*

Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*

MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*

Online Compression of Multiple IoT Sources Reduces the Age of Information. *Yazdani, N.*, +, *JIoT Oct. 1, 2021 14514-14530*

Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications. *Mukhopadhyay, B.*, +, *JIoT Sept. 1, 2021 13384-13396*

Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data. *Khan, N.*, +, *JIoT Jan. 1, 2021 596-609*

Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy. *Liang, S.D.*, *JIoT Oct. 15, 2021 15267-15275*

Data encapsulation

Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. *Yang, Y.*, +, *JIoT Sept. 15, 2021 14276-14286*

Data fusion

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*

Data handling

A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X.*, +, *JIoT Feb. 15, 2021 2431-2443*

A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B.*, +, *JIoT Sept. 1, 2021 13567-13581*

Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J.*, +, *JIoT Oct. 1, 2021 14971-14984*

Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W.*, +, *JIoT April 1, 2021 5926-5937*

Cloud-Edge Orchestration for the Internet of Things: Architecture and AI-Powered Data Processing. *Wu, Y.*, *JIoT Aug. 15, 2021 12792-12805*

Deep Q-Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*

Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*

ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G.*, +, *JIoT March 1, 2021 3120-3129*

Large-Scale High-Utility Sequential Pattern Analytics in Internet of Things. *Srivastava, G.*, +, *JIoT Aug. 15, 2021 12669-12678*

Data integration

Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H.*, +, *JIoT Nov. 1, 2021 15683-15693*

Data integrity

6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*

Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F.*, +, *JIoT July 15, 2021 11678-11689*

Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y.*, +, *JIoT April 1, 2021 5973-5984*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y.*, +, *JIoT Oct. 15, 2021 15639-15648*

Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L.*, +, *JIoT Jan. 1, 2021 156-167*

Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z.*, +, *JIoT April 15, 2021 6608-6623*

Data mining

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I.*, +, *JIoT July 1, 2021 10318-10326*

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*

A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z.*, +, *JIoT Aug. 15, 2021 12658-12668*

ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks. *Sudheera, K.L.K.*, +, *JIoT April 15, 2021 6591-6607*

AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H.*, +, *JIoT April 15, 2021 6167-6177*

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L.*, +, *JIoT July 15, 2021 11357-11367*

- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A., +, JIoT May 15, 2021 7874-7888*
- Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S., +, JIoT Nov. 1, 2021 15990-16001*
- Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. *Zuo, Y., +, JIoT June 1, 2021 9084-9098*
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L., +, JIoT Aug. 15, 2021 12578-12587*
- ComPath: User Interest Mining in Heterogeneous Signed Social Networks for Internet of People. *Dhelim, S., +, JIoT April 15, 2021 7024-7035*
- Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F., +, JIoT Dec. 1, 2021 16758-16769*
- Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M., +, JIoT April 1, 2021 5953-5972*
- DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y., +, JIoT Feb. 1, 2021 1504-1518*
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X., +, JIoT July 1, 2021 10264-10279*
- Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L., +, JIoT Feb. 15, 2021 2330-2341*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J., +, JIoT Aug. 15, 2021 12528-12539*
- Efficient Approaches to Top-r Influential Community Search. *Luo, W., +, JIoT Aug. 15, 2021 12650-12657*
- Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L., +, JIoT April 15, 2021 6757-6770*
- FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*
- Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L., +, JIoT Aug. 1, 2021 12339-12349*
- Large-Scale High-Utility Sequential Pattern Analytics in Internet of Things. *Srivastava, G., +, JIoT Aug. 15, 2021 12669-12678*
- Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U., +, JIoT Dec. 15, 2021 17333-17344*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C., +, JIoT April 1, 2021 5340-5349*
- Recognizing Influential Nodes in Social Networks With Controllability and Observability. *Huang, F., +, JIoT April 15, 2021 6197-6204*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z., +, JIoT Sept. 15, 2021 14003-14012*
- Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. *Fortino, G., +, JIoT July 1, 2021 10220-10221*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A., +, JIoT Oct. 1, 2021 14874-14895*
- Verifiable, Reliable, and Privacy-Preserving Data Aggregation in Fog-Assisted Mobile Crowdsensing. *Yan, X., +, JIoT Sept. 15, 2021 14127-14140*
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M., +, JIoT Oct. 15, 2021 15240-15248*
- Data models**
- Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A., +, JIoT Nov. 15, 2021 16692-16704*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H., +, JIoT Nov. 1, 2021 15776-15784*
- Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A., +, JIoT Nov. 1, 2021 15704-15748*
- Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A., +, JIoT Nov. 15, 2021 16680-16691*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D., +, JIoT Nov. 15, 2021 16301-16312*
- Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H., +, JIoT Dec. 1, 2021 16749-16757*
- Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B., +, JIoT Dec. 1, 2021 16853-16862*
- End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C., +, JIoT Dec. 1, 2021 17043-17056*
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C., +, JIoT Dec. 15, 2021 17308-17319*
- Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G., +, JIoT Dec. 1, 2021 17199-17210*
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D., +, JIoT Dec. 15, 2021 17345-17355*
- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q., +, JIoT Nov. 1, 2021 15953-15964*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y., +, JIoT Nov. 15, 2021 16243-16255*
- Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J., +, JIoT Dec. 1, 2021 17029-17042*
- Data privacy**
- A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost. *Zhao, Y., +, JIoT June 1, 2021 8865-8882*
- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks. *Cai, Y., +, JIoT Jan. 1, 2021 647-656*
- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O., +, JIoT June 15, 2021 9463-9472*
- A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y., +, JIoT Aug. 1, 2021 12360-12374*
- A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*
- A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V., +, JIoT July 1, 2021 10583-10595*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L., +, JIoT Feb. 15, 2021 2603-2614*
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J., +, JIoT June 15, 2021 10034-10046*
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y., +, JIoT Sept. 15, 2021 13958-13974*
- A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N., +, JIoT Jan. 15, 2021 1123-1139*
- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M., +, JIoT July 1, 2021 10830-10842*
- A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z., +, JIoT June 1, 2021 9122-9138*
- A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K., +, JIoT April 15, 2021 6840-6852*
- A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A., +, JIoT April 1, 2021 5914-5925*
- A Survey on Federated Learning: The Journey From Centralized to Distributed On-Site Learning and Beyond. *Abdulrahman, S., +, JIoT April 1, 2021 5476-5497*
- A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. *Abwarafy, A., +, JIoT March 15, 2021 4004-4022*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z., +, JIoT Sept. 15, 2021 14322-14337*

- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J., +, JIoT March 1, 2021 3930-3938*
- Addressing Security and Privacy Issues of IoT Using Blockchain Technology. *Mohanta, B.K., +, JIoT Jan. 15, 2021 881-888*
- Adversarial Privacy-Preserving Graph Embedding Against Inference Attack. *Li, K., +, JIoT April 15, 2021 6904-6915*
- ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W., +, JIoT June 15, 2021 9622-9633*
- Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log. *Figueroa-Lorenzo, S., +, JIoT Sept. 1, 2021 13306-13315*
- An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J., +, JIoT Jan. 1, 2021 458-473*
- An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid. *Merad-Boudia, O.R., +, JIoT April 15, 2021 6143-6153*
- An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y., +, JIoT May 15, 2021 8616-8631*
- Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M., +, JIoT Sept. 15, 2021 13939-13949*
- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A., +, JIoT May 15, 2021 7874-7888*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S., +, JIoT Aug. 15, 2021 12947-12954*
- Automatic Permission Optimization Framework for Privacy Enhancement of Mobile Applications. *Qu, Y., +, JIoT May 1, 2021 7394-7406*
- BEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C., +, JIoT July 15, 2021 11743-11757*
- BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. *Xu, H., +, JIoT March 1, 2021 3915-3929*
- BioTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P., +, JIoT July 1, 2021 10857-10872*
- Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices. *Zhang, H., +, JIoT Oct. 15, 2021 15596-15607*
- Blockchain-Based Data Management and Edge-Assisted Trusted Cloaking Area Construction for Location Privacy Protection in Vehicular Networks. *Feng, J., +, JIoT Feb. 15, 2021 2087-2101*
- Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y., +, JIoT Feb. 15, 2021 2226-2237*
- Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W., +, JIoT April 1, 2021 5926-5937*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T., +, JIoT July 1, 2021 10766-10778*
- Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*
- Blockchain-Enabled Cyber-Physical Systems: A Review. *Zhao, W., +, JIoT March 15, 2021 4023-4034*
- Blockchain-Enabled Secure Data Sharing Scheme in Mobile-Edge Computing: An Asynchronous Advantage Actor-Critic Learning Approach. *Liu, L., +, JIoT Feb. 15, 2021 2342-2353*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S., +, JIoT Oct. 1, 2021 14797-14809*
- BTMPP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z., +, JIoT April 1, 2021 5386-5407*
- Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning. *Mohammed, I., +, JIoT April 1, 2021 5938-5952*
- Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S., +, JIoT April 15, 2021 6498-6518*
- CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B., +, JIoT Oct. 1, 2021 15010-15023*
- CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*
- Collective Memory for Detecting Nonconcurrent Clones: A Localized Approach for Global Topology and Identity Tracing in IoT Networks. *Xu, J., +, JIoT April 1, 2021 5762-5777*
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B., +, JIoT April 1, 2021 5645-5656*
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P., +, JIoT Nov. 1, 2021 15863-15874*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y., +, JIoT Feb. 15, 2021 2736-2750*
- Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X., +, JIoT July 15, 2021 11758-11772*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y., +, JIoT Feb. 15, 2021 2300-2317*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B., +, JIoT July 15, 2021 11052-11064*
- Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F., +, JIoT July 15, 2021 11678-11689*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H., +, JIoT Nov. 1, 2021 15776-15784*
- DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P., +, JIoT Aug. 15, 2021 12569-12577*
- Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M., +, JIoT April 1, 2021 5953-5972*
- Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L., +, JIoT March 15, 2021 4317-4328*
- DDLFP: A Practical Decentralized Deep Learning Paradigm for Internet-of-Things Applications. *Wu, Y., +, JIoT June 15, 2021 9740-9752*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y., +, JIoT April 15, 2021 6348-6358*
- Deep-Reinforcement-Learning-Based User Profile Perturbation for Privacy-Aware Recommendation. *Xiao, Y., +, JIoT March 15, 2021 4560-4568*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- Differential Privacy for Industrial Internet of Things: Opportunities, Applications, and Challenges. *Jiang, B., +, JIoT July 1, 2021 10430-10451*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X., +, JIoT July 1, 2021 10264-10279*
- DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. *Ren, X., +, JIoT Feb. 15, 2021 2775-2791*
- Dynamic-Fusion-Based Federated Learning for COVID-19 Detection. *Zhang, W., +, JIoT Nov. 1, 2021 15884-15891*
- E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L., +, JIoT July 15, 2021 11290-11304*
- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H., +, JIoT Oct. 1, 2021 14787-14796*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J., +, JIoT Aug. 15, 2021 12528-12539*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G., +, JIoT Feb. 1, 2021 1908-1920*
- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R., +, JIoT April 15, 2021 6425-6436*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S., +, JIoT Feb. 15, 2021 2886-2899*

- Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P.*, +, *JIoT July 1, 2021 10963-10972*
- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*
- Embedding Blockchain Technology Into IoT for Security: A Survey. *Xu, L.D.*, +, *JIoT July 1, 2021 10452-10473*
- Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A.*, +, *JIoT April 15, 2021 6406-6415*
- Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain. *Zhang, C.*, +, *JIoT April 15, 2021 6624-6636*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X.*, +, *JIoT Nov. 15, 2021 16535-16547*
- ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things. *Li, D.*, +, *JIoT May 1, 2021 7229-7240*
- Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing. *Shen, M.*, +, *JIoT Feb. 15, 2021 2265-2275*
- Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L.*, +, *JIoT April 15, 2021 6757-6770*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C.*, +, *JIoT Aug. 15, 2021 12806-12825*
- FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning. *Abdulrahman, S.*, +, *JIoT March 15, 2021 4723-4735*
- Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S.*, +, *JIoT July 15, 2021 11717-11731*
- From Centralized Management to Edge Collaboration: A Privacy-Preserving Task Assignment Framework for Mobile Crowdsensing. *Wu, D.*, +, *JIoT March 15, 2021 4579-4589*
- Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R.*, +, *JIoT Aug. 15, 2021 12955-12967*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System. *Li, C.*, +, *JIoT May 1, 2021 7192-7202*
- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. *Wu, M.*, +, *JIoT July 1, 2021 10639-10651*
- InPPTD: A Lightweight Incentive-Based Privacy-Preserving Truth Discovery for Crowdsensing Systems. *Xue, K.*, +, *JIoT March 15, 2021 4305-4316*
- Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities. *Bhuiyan, M.N.*, +, *JIoT July 1, 2021 10474-10498*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*
- Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X.*, +, *JIoT May 15, 2021 8234-8245*
- LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y.*, +, *JIoT Oct. 15, 2021 15639-15648*
- LDP-Based Social Content Protection for Trending Topic Recommendation. *Wei, J.*, +, *JIoT March 15, 2021 4353-4372*
- Local Differential Privacy-Based Federated Learning for Internet of Things. *Zhao, Y.*, +, *JIoT June 1, 2021 8836-8853*
- Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M.*, +, *JIoT Jan. 1, 2021 407-417*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D.*, +, *JIoT July 15, 2021 11415-11426*
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*
- Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. *Nguyen, L.D.*, +, *JIoT April 15, 2021 6487-6497*
- Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L.*, +, *JIoT Jan. 1, 2021 156-167*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R.*, +, *JIoT June 1, 2021 8949-8963*
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K.*, +, *JIoT April 15, 2021 6815-6827*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q.*, +, *JIoT Aug. 1, 2021 11916-11934*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- PGRide: Privacy-Preserving Group Ridesharing Matching in Online Ride Hailing Services. *Yu, H.*, +, *JIoT April 1, 2021 5722-5735*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J.*, +, *JIoT March 1, 2021 3310-3322*
- Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J.*, +, *JIoT Nov. 15, 2021 16290-16300*
- PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. *Wang, X.*, +, *JIoT July 1, 2021 10288-10298*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B.*, +, *JIoT Dec. 15, 2021 17584-17595*
- Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H.*, +, *JIoT Nov. 1, 2021 15683-15693*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Privacy-Preserving Federated Learning Framework Based on Chained Secure Multiparty Computing. *Li, Y.*, +, *JIoT April 15, 2021 6178-6186*
- Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L.*, +, *JIoT Oct. 1, 2021 14731-14745*
- Privacy-Preserving Group Authentication for RFID Tags Using Bit-Collision Patterns. *Yang, A.*, +, *JIoT July 15, 2021 11607-11620*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*
- Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios. *Zhu, L.*, +, *JIoT Aug. 1, 2021 12106-12118*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C.*, +, *JIoT April 1, 2021 5340-5349*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q.*, +, *JIoT July 15, 2021 11463-11475*
- Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*
- PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*
- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J.*, +, *JIoT March 1, 2021 3088-3098*
- Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y.*, +, *JIoT July 15, 2021 11163-11176*

Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles. *Qi, H.*, +, *JIoT March 15, 2021 4472-4484*

Scalar Product Lattice Computation for Efficient Privacy-Preserving Systems. *Rahulamathavan, Y.*, +, *JIoT Feb. 1, 2021 1417-1427*

SearchBC: A Blockchain-Based PEKS Framework for IoT Services. *Jiang, P.*, +, *JIoT March 15, 2021 5031-5044*

Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F.*, +, *JIoT May 15, 2021 8056-8063*

Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S.*, +, *JIoT July 1, 2021 10815-10829*

Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*

Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D.*, +, *JIoT Feb. 15, 2021 2976-2991*

SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R.*, +, *JIoT April 15, 2021 6214-6221*

Selective Sharing of Outsourced Encrypted Data in Cloud Environments. *Sifah, E.B.*, +, *JIoT Sept. 15, 2021 14141-14155*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C.*, +, *JIoT July 1, 2021 10619-10630*

Systematically Quantifying IoT Privacy Leakage in Mobile Networks. *Hui, S.*, +, *JIoT May 1, 2021 7115-7125*

To Hide Private Position Information in Localization for Internet of Underwater Things. *Yan, J.*, +, *JIoT Sept. 15, 2021 14338-14354*

Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*

Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*

Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*

Toward Privacy-Preserving Task Assignment for Fully Distributed Spatial Crowdsourcing. *Li, M.*, +, *JIoT Sept. 15, 2021 13991-14002*

Verifiable, Reliable, and Privacy-Preserving Data Aggregation in Fog-Assisted Mobile Crowdsensing. *Yan, X.*, +, *JIoT Sept. 15, 2021 14127-14140*

When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*

Data processing

Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C.*, +, *JIoT Dec. 1, 2021 16902-16910*

Data protection

A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B.*, +, *JIoT July 1, 2021 10248-10263*

Adversarial Attacks Against Network Intrusion Detection in IoT Systems. *Qiu, H.*, +, *JIoT July 1, 2021 10327-10335*

Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*

Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT. *Chen, S.*, +, *JIoT March 1, 2021 3276-3286*

Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H.*, +, *JIoT March 15, 2021 4762-4774*

Data reduction

Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M.*, +, *JIoT April 1, 2021 5953-5972*

Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G.*, +, *JIoT Nov. 15, 2021 16440-16451*

Data structures

A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V.*, +, *JIoT Feb. 15, 2021 2409-2418*

A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021 12540-12549*

Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*

Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U.*, +, *JIoT Dec. 15, 2021 17333-17344*

Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L.*, +, *JIoT Oct. 1, 2021 14731-14745*

Data visualization

FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*

Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H.*, +, *JIoT July 15, 2021 11514-11525*

Database management systems

DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. *Ren, X.*, +, *JIoT Feb. 15, 2021 2775-2791*

Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C.*, +, *JIoT April 1, 2021 5340-5349*

Databases

Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K.*, +, *JIoT Nov. 1, 2021 16035-16046*

Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H.*, +, *JIoT Dec. 1, 2021 16749-16757*

Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*

Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U.*, +, *JIoT Dec. 15, 2021 17333-17344*

DC-DC power converters

Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F.*, +, *JIoT March 1, 2021 3678-3688*

Decentralized control

Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D.*, +, *JIoT Jan. 15, 2021 813-828*

Decision making

6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*

A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J.*, +, *JIoT June 15, 2021 9683-9696*

A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M.*, +, *JIoT Aug. 1, 2021 11793-11806*

A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*

A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*

Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*

An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T.*, +, *JIoT March 1, 2021 3170-3179*

An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D.*, +, *JIoT March 15, 2021 4816-4829*

An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y.*, +, *JIoT May 15, 2021 8616-8631*

Attribute-Based Access Control for Smart Cities: A Smart-Contract-Driven Framework. *Zhang, Y.*, +, *JIoT April 15, 2021 6372-6384*

Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X.*, +, *JIoT June 1, 2021 9233-9243*

Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms. *Mijuskovic, A.*, +, *JIoT Feb. 1, 2021 1797-1816*

Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*

Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L.*, +, *JIoT March 15, 2021 4317-4328*

- Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments. *Tiwari, M.*, +, *JIoT July 1, 2021 10631-10638*
- Distributed Task Offloading Optimization With Queueing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J.*, +, *JIoT Aug. 1, 2021 12311-12328*
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V.*, +, *JIoT May 15, 2021 8133-8144*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*
- FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning. *Abdulrahman, S.*, +, *JIoT March 15, 2021 4723-4735*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N.*, +, *JIoT May 15, 2021 8259-8278*
- IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry. *Bhatia, M.*, *JIoT June 15, 2021 9523-9530*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space–Air–Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W.*, +, *JIoT Sept. 1, 2021 13703-13711*
- Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. *Zhu, J.*, +, *JIoT Sept. 1, 2021 13542-13554*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- SBBS: A Secure Blockchain-Based Scheme for IoT Data Credibility in Fog Environment. *Fan, Y.*, +, *JIoT June 1, 2021 9268-9277*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*
- TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems. *Xu, G.*, +, *JIoT June 15, 2021 9559-9567*
- UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z.*, +, *JIoT Aug. 1, 2021 12289-12310*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- Voting-Based Multiagent Reinforcement Learning for Intelligent IoT. *Xu, Y.*, +, *JIoT Feb. 15, 2021 2681-2693*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- Win–Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*

Decision support systems

- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O.*, +, *JIoT June 15, 2021 9463-9472*
- A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*
- Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H.*, +, *JIoT Nov. 1, 2021 15919-15928*

Decision theory

- Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R.*, +, *JIoT Jan. 1, 2021 345-356*

- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L.*, +, *JIoT Feb. 15, 2021 2318-2329*
- Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M.*, +, *JIoT Jan. 1, 2021 407-417*
- Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G.*, +, *JIoT Feb. 15, 2021 2483-2493*
- Soft Actor–Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*

Decision trees

- Accurate Interpretation of the Online Learning Model for 6G-Enabled Internet of Things. *Huang, J.*, +, *JIoT Oct. 15, 2021 15228-15239*
- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*
- An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D.*, +, *JIoT March 15, 2021 4816-4829*
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R.*, +, *JIoT April 15, 2021 7065-7078*
- Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N.*, +, *JIoT Sept. 1, 2021 13712-13722*

Decode and forward communication

- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y.*, +, *JIoT Feb. 15, 2021 2792-2801*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*

Decoding

- A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H.*, +, *JIoT Oct. 1, 2021 14705-14718*
- Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W.*, +, *JIoT Nov. 15, 2021 16705-16717*
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A.*, +, *JIoT Dec. 15, 2021 17495-17507*
- MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J.*, +, *JIoT Oct. 15, 2021 15512-15521*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*
- Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F.*, +, *JIoT April 1, 2021 5211-5218*
- Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q.*, +, *JIoT June 15, 2021 10146-10159*

Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*

Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R.*, +, *JIoT Dec. 15, 2021 17568-17583*

URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*

Deep learning

Deep learning (artificial intelligence)

A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J.*, +, *JIoT Dec. 15, 2021 17508-17524*

A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y.*, +, *JIoT Dec. 15, 2021 17449-17459*

Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L.*, +, *JIoT Dec. 1, 2021 16787-16800*

An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A.*, +, *JIoT Nov. 1, 2021 15847-15854*

An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. *Ahmed, I.*, +, *JIoT Nov. 1, 2021 15855-15862*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H.*, +, *JIoT July 15, 2021 11208-11218*

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I.*, +, *JIoT July 1, 2021 10318-10326*

A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*

A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L.*, +, *JIoT Aug. 1, 2021 12046-12063*

A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M.*, +, *JIoT June 15, 2021 9611-9621*

A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*

A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*

Adversarial Attacks Against Network Intrusion Detection in IoT Systems. *Qiu, H.*, +, *JIoT July 1, 2021 10327-10335*

AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C.*, +, *JIoT March 1, 2021 3157-3169*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F.*, +, *JIoT Oct. 1, 2021 15024-15036*

An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*

Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S.*, +, *JIoT Sept. 1, 2021 13251-13265*

Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J.*, +, *JIoT March 1, 2021 3268-3275*

Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K.*, +, *JIoT May 15, 2021 8343-8355*

Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*

Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*

Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M.*, +, *JIoT July 15, 2021 11594-11606*

Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*

Compacting Deep Neural Networks for Internet of Things: Methods and Applications. *Zhang, K.*, +, *JIoT Aug. 1, 2021 11935-11959*

Contention Resolution in Wi-Fi 6-Enabled Internet of Things Based on Deep Learning. *Chen, C.*, +, *JIoT April 1, 2021 5309-5320*

Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X.*, +, *JIoT May 1, 2021 7466-7475*

DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P.*, +, *JIoT Aug. 15, 2021 12569-12577*

Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J.*, +, *JIoT March 15, 2021 4628-4641*

DDLFP: A Practical Decentralized Deep Learning Paradigm for Internet-of-Things Applications. *Wu, Y.*, +, *JIoT June 15, 2021 9740-9752*

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*

Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y.*, +, *JIoT Dec. 1, 2021 16921-16932*

Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J.*, +, *JIoT Oct. 15, 2021 15441-15455*

Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X.*, +, *JIoT Oct. 15, 2021 15180-15190*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*

Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*

Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *Shi, Z.*, +, *JIoT March 1, 2021 3476-3489*

DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y.*, +, *JIoT Feb. 1, 2021 1504-1518*

DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C.*, +, *JIoT April 1, 2021 5669-5681*

Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J.*, +, *JIoT Jan. 15, 2021 1140-1153*

Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R.*, +, *JIoT Feb. 15, 2021 2517-2539*

Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y.*, +, *JIoT June 15, 2021 9594-9602*

Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. *Fang, D.*, +, *JIoT May 15, 2021 8557-8569*

Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X.*, +, *JIoT July 1, 2021 10264-10279*

Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L.*, +, *JIoT May 15, 2021 7938-7953*

End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C.*, +, *JIoT Dec. 1, 2021 17043-17056*

EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F.*, +, *JIoT Feb. 1, 2021 1259-1271*

Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H.*, +, *JIoT Oct. 1, 2021 14787-14796*

Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X.*, +, *JIoT July 1, 2021 10843-10856*

Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12422-12435*

- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C., +, JIoT May 1, 2021 7625-7637*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S., +, JIoT April 1, 2021 5111-5113*
- Heterogeneous Task Offloading and Resource Allocations via Deep Recurrent Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J., +, JIoT Jan. 15, 2021 1041-1056*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y., +, JIoT March 1, 2021 3786-3800*
- High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H., +, JIoT June 1, 2021 9219-9232*
- History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control. *Gao, X., +, JIoT Oct. 1, 2021 14683-14704*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I., +, JIoT March 15, 2021 4944-4956*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M., +, JIoT April 15, 2021 6454-6468*
- Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach. *Wang, X., +, JIoT March 15, 2021 4498-4513*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magalia, N., +, JIoT April 15, 2021 6393-6405*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K., +, JIoT June 15, 2021 9787-9799*
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X., +, JIoT June 15, 2021 9511-9522*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F., +, JIoT Sept. 15, 2021 14156-14170*
- Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L., +, JIoT May 1, 2021 7589-7599*
- Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M., +, JIoT July 15, 2021 11732-11742*
- Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y., +, JIoT July 15, 2021 11427-11439*
- LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z., +, JIoT April 1, 2021 6012-6023*
- Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q-Learning Approach. *Jia, R., +, JIoT Sept. 15, 2021 14299-14307*
- MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A., +, JIoT Dec. 15, 2021 17778-17789*
- Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X., +, JIoT June 15, 2021 9763-9773*
- Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M., +, JIoT Aug. 1, 2021 12375-12383*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K., +, JIoT April 1, 2021 5332-5339*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B., +, JIoT June 15, 2021 9878-9893*
- Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T., +, JIoT April 15, 2021 6649-6664*
- Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K., +, JIoT Oct. 1, 2021 14810-14821*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y., +, JIoT March 1, 2021 3567-3575*
- Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahim, M.I., +, JIoT Dec. 1, 2021 17131-17146*
- Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X., +, JIoT Nov. 1, 2021 15929-15938*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M., +, JIoT June 1, 2021 9177-9188*
- Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks. *Abdel-Basset, M., +, JIoT Aug. 1, 2021 12251-12265*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S., +, JIoT April 1, 2021 5607-5618*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X., +, JIoT March 15, 2021 4980-4990*
- Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K., +, JIoT Aug. 15, 2021 12623-12637*
- Toward Deep Transfer Learning in Industrial Internet of Things. *Liu, X., +, JIoT Aug. 1, 2021 12163-12175*
- Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N., +, JIoT Sept. 1, 2021 13712-13722*
- Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X., +, JIoT April 15, 2021 6187-6196*
- Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X., +, JIoT Jan. 15, 2021 802-812*
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H., +, JIoT March 1, 2021 3180-3188*
- Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z., +, JIoT Sept. 15, 2021 14372-14384*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M., +, JIoT April 1, 2021 5468-5475*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multiscale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y., +, JIoT Feb. 15, 2021 2627-2634*
- Deformation**
- A Novel “Smart Skin” Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S., +, JIoT March 1, 2021 3955-3971*
- Delays**
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*
- Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services. *Cao, J., +, JIoT March 1, 2021 3758-3773*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T., +, JIoT Feb. 1, 2021 1623-1635*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J., +, JIoT Oct. 15, 2021 15361-15371*
- End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*
- Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W., +, JIoT Dec. 15, 2021 17691-17704*
- High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y., +, JIoT Dec. 1, 2021 16872-16879*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y., +, JIoT May 1, 2021 7126-7139*
- Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J., +, JIoT Nov. 15, 2021 16313-16325*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q., +, JIoT June 15, 2021 9995-10009*
- Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J., +, JIoT Dec. 15, 2021 17417-17428*
- Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F., +, JIoT Dec. 15, 2021 17596-17610*

- On Fast Retrial for Two-Step Random Access in MTC. *Choi, J., JIoT Feb. 1, 2021 1428-1436*
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X., +, JIoT Nov. 15, 2021 16598-16612*
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C., +, JIoT Nov. 15, 2021 16207-16218*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- Demodulation**
- A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*
- Rateless TLRCM for IoT Uplink Transmission. *Rao, W., +, JIoT July 1, 2021 10608-10618*
- Design engineering**
- A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R., +, JIoT March 15, 2021 4339-4352*
- Detectors**
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A., +, JIoT Dec. 15, 2021 17495-17507*
- Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N., +, JIoT Nov. 15, 2021 16379-16394*
- Device-to-device communication**
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C., +, JIoT Dec. 1, 2021 16911-16920*
- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N., +, JIoT Dec. 15, 2021 17382-17394*
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A., +, JIoT Dec. 15, 2021 17705-17723*
- Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y., +, JIoT Dec. 1, 2021 17161-17171*
- SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V., +, JIoT Nov. 15, 2021 16637-16652*
- Diagnostic radiography**
- An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*
- Diamond**
- Blockchain for Diamond Industry: Opportunities and Challenges. *Thakker, U., +, JIoT June 1, 2021 8747-8773*
- Dictionaries**
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R., +, JIoT Dec. 1, 2021 16825-16834*
- Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S., +, JIoT Dec. 15, 2021 17320-17332*
- Differential equations**
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F., +, JIoT Jan. 15, 2021 778-790*
- Digital signatures**
- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks. *Cai, Y., +, JIoT Jan. 1, 2021 647-656*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C., +, JIoT Aug. 15, 2021 12481-12489*
- A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A., +, JIoT April 1, 2021 5914-5925*
- An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. *Yang, W., +, JIoT March 15, 2021 5000-5008*
- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A., +, JIoT May 15, 2021 7874-7888*
- Certificate-Based Parallel Key-Insulated Aggregate Signature Against Fully Chosen Key Attacks for Industrial Internet of Things. *Hou, Y., +, JIoT June 1, 2021 8935-8948*
- Certificateless Designated Verifier Anonymous Aggregate Signature Scheme for Healthcare Wireless Sensor Networks. *Deng, L., +, JIoT June 1, 2021 8897-8909*
- CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B., +, JIoT Oct. 1, 2021 15010-15023*
- Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F., +, JIoT July 15, 2021 11678-11689*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*
- Efficient and Fine-Grained Signature for IIoT With Resistance to Key Exposure. *Bao, Y., +, JIoT June 1, 2021 9189-9205*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G., +, JIoT Feb. 1, 2021 1908-1920*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W., +, JIoT Aug. 15, 2021 12758-12770*
- Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L., +, JIoT Jan. 1, 2021 156-167*
- Novel Postquantum MQ-Based Signature Scheme for Internet of Things With Parallel Implementation. *Akleylek, S., +, JIoT April 15, 2021 6983-6994*
- On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. *Suhail, S., +, JIoT Jan. 1, 2021 1-17*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T., +, JIoT May 15, 2021 8387-8398*
- SCBS: A Short Certificate-Based Signature Scheme With Efficient Aggregation for Industrial-Internet-of-Things Environment. *Verma, G.K., +, JIoT June 1, 2021 9305-9316*
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y., +, JIoT Feb. 15, 2021 2627-2634*
- Digital twin**
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y., +, JIoT Nov. 15, 2021 16219-16230*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D., +, JIoT Nov. 15, 2021 16301-16312*
- Dimensionality reduction**
- Adaptive Artificial Intelligence for Resource-Constrained Connected Vehicles in Cybertwin-Driven 6G Network. *Shen, S., +, JIoT Nov. 15, 2021 16269-16278*
- Dipole antennas**
- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y., +, JIoT Nov. 15, 2021 16486-16497*
- Directed graphs**
- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*
- Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S., +, JIoT June 15, 2021 10010-10017*
- Multihop Offloading of Multiple DAG Tasks in Collaborative Edge Computing. *Sahni, Y., +, JIoT March 15, 2021 4893-4905*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H., +, JIoT Feb. 1, 2021 1871-1882*
- Direction-of-arrival estimation**
- Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H., +, JIoT Feb. 15, 2021 2814-2825*
- Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B., +, JIoT Oct. 15, 2021 15303-15316*
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W., +, JIoT June 15, 2021 9934-9944*
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

- Single Sensor to Estimate DOA With Programmable Metasurface. *Lin, M., +, JIoT June 15, 2021 10187-10197*
- UAV-Aided Relative Localization of Terminals. *Liu, Y., +, JIoT Aug. 15, 2021 12999-13013*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S., +, JIoT June 1, 2021 9099-9108*
- Directive antennas**
- Cognitive Neighbor Discovery With Directional Antennas in Self-Organizing IoT Networks. *Bai, W., +, JIoT April 15, 2021 6865-6877*
- Directional Multipoint Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S., +, JIoT April 1, 2021 5850-5865*
- Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. *Lee, C., +, JIoT May 15, 2021 8291-8303*
- Disasters**
- Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V., +, JIoT Nov. 1, 2021 16047-16071*
- Discrete cosine transforms**
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q., +, JIoT Dec. 1, 2021 16734-16748*
- Discrete Fourier transforms**
- A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*
- Discrete time systems**
- Discrete-Time Queueing Model of Age of Information With Multiple Information Sources. *Akar, N., +, JIoT Oct. 1, 2021 14531-14542*
- Diseases**
- A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*
- An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J., +, JIoT Jan. 1, 2021 458-473*
- Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*
- BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. *Xu, H., +, JIoT March 1, 2021 3915-3929*
- Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y., +, JIoT Nov. 1, 2021 15875-15883*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y., +, JIoT Dec. 1, 2021 16921-16932*
- Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V., +, JIoT Nov. 1, 2021 16047-16071*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*
- Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC. *Shakil Sejan, M.A., +, JIoT May 1, 2021 7214-7228*
- Recent Advances in the Internet-of-Medical-Things (IoMT) Systems Security. *Ghubaish, A., +, JIoT June 1, 2021 8707-8718*
- ReType: Your Breath Tells Your Mind!. *Wang, Q., +, JIoT June 1, 2021 9436-9449*
- Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P., +, JIoT March 15, 2021 5093-5100*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A., +, JIoT Nov. 1, 2021 16072-16082*
- Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J., +, JIoT July 15, 2021 11450-11462*
- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q., +, JIoT Nov. 1, 2021 15953-15964*
- Distance measurement**
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*
- Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R., +, JIoT Aug. 15, 2021 12955-12967*
- Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M., +, JIoT Dec. 15, 2021 17436-17448*
- Distributed algorithms**
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J., +, JIoT Feb. 1, 2021 2040-2050*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q., +, JIoT June 1, 2021 9164-9176*
- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*
- Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y., +, JIoT May 15, 2021 8223-8233*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*
- Throughput Enhancement of Full-Duplex CSMA Networks Using Multi-player Bandits. *Tong, J., +, JIoT Aug. 1, 2021 11807-11821*
- Win-Win-Driven D2D Content Sharing. *Wu, D., +, JIoT May 1, 2021 7346-7359*
- Wireless Energy Sharing for Maximizing Lifetime of Linear Multihop Communications. *Choi, H., +, JIoT Aug. 1, 2021 12189-12202*
- Distributed control**
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M., +, JIoT Feb. 15, 2021 2615-2626*
- Distributed databases**
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D., +, JIoT Nov. 15, 2021 16301-16312*
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D., +, JIoT Dec. 15, 2021 17345-17355*
- Distributed ledger**
- Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y., +, JIoT Nov. 1, 2021 15785-15795*
- Distributed power generation**
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J., +, JIoT Feb. 1, 2021 2040-2050*
- An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y., +, JIoT May 15, 2021 8616-8631*
- Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. *Li, J., +, JIoT Jan. 15, 2021 734-749*
- Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy. *Fang, D., +, JIoT June 15, 2021 9654-9663*
- Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. *Fang, D., +, JIoT May 15, 2021 8557-8569*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L., +, JIoT May 15, 2021 7938-7953*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W., +, JIoT Sept. 1, 2021 13703-13711*
- Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W., +, JIoT May 15, 2021 8632-8643*
- Distributed processing**
- A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V., +, JIoT Feb. 15, 2021 2409-2418*
- A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S., +, JIoT Feb. 1, 2021 1358-1372*

- Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. *Li, R., +, JIoT Oct. 1, 2021 14471-14484*
- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*
- An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M., +, JIoT Feb. 1, 2021 1572-1584*
- Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y., +, JIoT Feb. 15, 2021 2226-2237*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H., +, JIoT April 1, 2021 5360-5373*
- Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT. *Yu, W., +, JIoT May 1, 2021 7638-7648*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K., +, JIoT Feb. 1, 2021 1347-1357*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N., +, JIoT June 1, 2021 9422-9435*
- Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments. *Tiwari, M., +, JIoT July 1, 2021 10631-10638*
- EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F., +, JIoT Feb. 1, 2021 1259-1271*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H., +, JIoT Oct. 1, 2021 14787-14796*
- Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K., +, JIoT April 15, 2021 6709-6719*
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J., +, JIoT March 1, 2021 3438-3445*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C., +, JIoT May 1, 2021 7625-7637*
- Heterogeneous Task Offloading and Resource Allocations via Deep Recurrent Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J., +, JIoT Jan. 15, 2021 1041-1056*
- Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J., +, JIoT Oct. 1, 2021 14773-14786*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C., +, JIoT Feb. 15, 2021 2802-2813*
- Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S., +, JIoT Aug. 15, 2021 12716-12723*
- IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J., +, JIoT Aug. 15, 2021 12771-12781*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D., +, JIoT July 15, 2021 11487-11502*
- Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D., +, JIoT July 15, 2021 11415-11426*
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J., +, JIoT June 15, 2021 9672-9682*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C., +, JIoT Aug. 15, 2021 12705-12715*
- Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. *Zhu, J., +, JIoT Sept. 1, 2021 13542-13554*
- Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*
- Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M., +, JIoT Sept. 1, 2021 13425-13438*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F., +, JIoT Jan. 15, 2021 778-790*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L., +, JIoT July 15, 2021 11233-11248*
- Distributed sensors**
- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F., +, JIoT April 1, 2021 5321-5331*
- A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R., +, JIoT March 15, 2021 4339-4352*
- Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R., +, JIoT March 15, 2021 4697-4710*
- Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J., +, JIoT Oct. 15, 2021 15284-15291*
- Diversity reception**
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A., +, JIoT Aug. 1, 2021 11860-11876*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P., +, JIoT May 15, 2021 8145-8158*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H., +, JIoT Oct. 15, 2021 15081-15095*
- Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L., +, JIoT April 1, 2021 5129-5140*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J., +, JIoT Oct. 15, 2021 15126-15139*
- Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y., +, JIoT Oct. 15, 2021 15382-15395*
- Reinforcement Learning Meets Wireless Networks: A Layering Perspective. *Chen, Y., +, JIoT Jan. 1, 2021 85-111*
- Domestic appliances**
- Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K., +, JIoT May 15, 2021 8343-8355*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y., +, JIoT Feb. 1, 2021 1817-1829*
- Doppler effect**
- MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices. *Jin, R., +, JIoT July 1, 2021 10755-10765*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- Doppler radar**
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J., +, JIoT Aug. 1, 2021 12350-12359*
- Doppler shift**
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y., +, JIoT March 1, 2021 3490-3499*
- Downlink**
- A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y., +, JIoT Dec. 15, 2021 17261-17274*
- DRAM chips**
- MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT. *Gupta, N., +, JIoT May 1, 2021 7182-7191*
- Driver information systems**
- Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*
- ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q., +, JIoT Sept. 15, 2021 14355-14371*
- Drones**
- Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A., +, JIoT Nov. 15, 2021 16692-16704*
- Ducts**
- Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H., +, JIoT Dec. 1, 2021 17100-17110*
- Dynamic programming**
- Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y., +, JIoT July 1, 2021 10896-10910*

- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*
- Cognitive Neighbor Discovery With Directional Antennas in Self-Organizing IoT Networks. *Bai, W., +, JIoT April 15, 2021 6865-6877*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C., +, JIoT June 1, 2021 9151-9163*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*
- ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*

E

Eavesdropping

- Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K., +, JIoT Dec. 15, 2021 17476-17494*

- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H., +, JIoT Dec. 1, 2021 17211-17226*

Echo

- A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J., +, JIoT Oct. 15, 2021 15276-15283*

Echo suppression

- Resonant Beam Communications With Echo Interference Elimination. *Xiong, M., +, JIoT Feb. 15, 2021 2875-2885*

Economics

- ζboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D., +, JIoT Nov. 1, 2021 15977-15989*

Ecosystems

- OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S., +, JIoT Nov. 15, 2021 16418-16426*

Edge computing

- A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y., +, JIoT Dec. 1, 2021 17071-17089*

- Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y., +, JIoT Nov. 1, 2021 15785-15795*

- Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G., +, JIoT Dec. 1, 2021 16894-16901*

- Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W., +, JIoT Dec. 15, 2021 17691-17704*

- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M., +, JIoT Feb. 15, 2021 2082-2086*

- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S., +, JIoT April 1, 2021 5111-5113*

- MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A., +, JIoT Nov. 1, 2021 15762-15775*

- MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A., +, JIoT Dec. 15, 2021 17778-17789*

- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H., +, JIoT Dec. 15, 2021 17541-17556*

- Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W., +, JIoT Nov. 15, 2021 16256-16268*

- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N., +, JIoT Dec. 15, 2021 17382-17394*

- Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L., +, JIoT Dec. 1, 2021 17172-17185*

- Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X., +, JIoT Nov. 1, 2021 15929-15938*

- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H., +, JIoT Dec. 15, 2021 17678-17690*

- Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H., +, JIoT Dec. 1, 2021 16972-16983*

Edge detection

- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V., +, JIoT May 15, 2021 8133-8144*

Eigenvalues and eigenfunctions

- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C., +, JIoT Jan. 1, 2021 262-277*

- WiCrowd: Counting the Directional Crowd With a Single Wireless Link. *Zhang, L., +, JIoT May 15, 2021 8644-8656*

Electric actuators

- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*

Electric vehicle charging

- A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks. *Sha, C., +, JIoT Feb. 15, 2021 2649-2669*

- Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. *Moschella, M., +, JIoT July 15, 2021 11112-11122*

- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W., +, JIoT July 1, 2021 10573-10582*

- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L., +, JIoT May 15, 2021 7863-7873*

Electric vehicles

- CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*

- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*

Electrical engineering computing

- MetaSense: Boosting RF Sensing Accuracy Using Dynamic Metasurface Antenna. *Lan, G., +, JIoT Sept. 15, 2021 14110-14126*

Electrocardiography

- 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*

- Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks. *Guo, L., +, JIoT March 1, 2021 3851-3863*

- Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*

- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q., +, JIoT Dec. 1, 2021 16734-16748*

- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W., +, JIoT May 15, 2021 8119-8132*

Electrochemical electrodes

- Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *Evans, J.W., +, JIoT June 15, 2021 10047-10051*

Electroencephalography

- Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L., +, JIoT Dec. 1, 2021 16787-16800*

- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H., +, JIoT Nov. 1, 2021 15829-15838*

- BED: A New Data Set for EEG-Based Biometrics. *Arnau-Gonzalez, P., +, JIoT Aug. 1, 2021 12219-12230*

- Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*

- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J., +, JIoT May 15, 2021 8304-8313*

- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R., +, JIoT April 15, 2021 6214-6221*

Electromagnetic metamaterials

Review on Metamaterial Perfect Absorbers and Their Applications to IoT. *Amiri, M., +, JIoT March 15, 2021 4105-4131*

Electromagnetic wave attenuation

Online Collaborative Localization. *Zhou, C., +, JIoT Feb. 15, 2021 2712-2721*

Electromagnetic wave scattering

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z., +, JIoT Jan. 1, 2021 418-427*

Electromyography

Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*

Electronic commerce

A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. *Hassija, V., +, JIoT April 15, 2021 6222-6246*

Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W., +, JIoT April 15, 2021 6305-6312*

Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing. *Fan, S., +, JIoT Feb. 15, 2021 2252-2264*

Electronic data interchange

BEEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C., +, JIoT July 15, 2021 11743-11757*

Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B., +, JIoT March 15, 2021 4157-4185*

Review on Metamaterial Perfect Absorbers and Their Applications to IoT. *Amiri, M., +, JIoT March 15, 2021 4105-4131*

Electronic health records

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z., +, JIoT June 1, 2021 9122-9138*

A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A., +, JIoT April 1, 2021 5914-5925*

BioTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P., +, JIoT July 1, 2021 10857-10872*

Electronic messaging

Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W., +, JIoT Jan. 15, 2021 1016-1029*

Electronic voting

d-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E., +, JIoT Nov. 15, 2021 16585-16597*

Embedded systems

A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V., +, JIoT July 15, 2021 11320-11328*

Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A., +, JIoT March 15, 2021 4433-4447*

Fuzzing the Internet of Things: A Review on the Techniques and Challenges for Efficient Vulnerability Discovery in Embedded Systems. *Eceiza, M., +, JIoT July 1, 2021 10390-10411*

Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*

On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K., +, JIoT April 15, 2021 6815-6827*

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H., +, JIoT April 15, 2021 6692-6708*

Emergency management

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N., +, JIoT Jan. 15, 2021 869-880*

BTMP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z., +, JIoT April 1, 2021 5386-5407*

Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*

Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V., +, JIoT Nov. 1, 2021 16047-16071*

IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G., +, JIoT Jan. 15, 2021 1057-1070*

LoRa System for Search and Rescue: Path-Loss Models and Procedures in Mountain Scenarios. *Bianco, G.M., +, JIoT Feb. 1, 2021 1985-1999*

Emergency services

Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V., +, JIoT Nov. 1, 2021 16047-16071*

IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G., +, JIoT Jan. 15, 2021 1057-1070*

Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M., +, JIoT June 1, 2021 9373-9382*

Emotion recognition

Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G., +, JIoT Dec. 1, 2021 16894-16901*

Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T., +, JIoT Nov. 1, 2021 16002-16013*

Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P., +, JIoT April 15, 2021 6949-6962*

Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*

IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G., +, JIoT Jan. 15, 2021 1057-1070*

LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M., +, JIoT Dec. 1, 2021 16863-16871*

MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y., +, JIoT Dec. 1, 2021 16933-16945*

Encoding

A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M., +, JIoT June 15, 2021 9611-9621*

Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W., +, JIoT Nov. 15, 2021 16705-16717*

GraphComm: Efficient Graph Convolutional Communication for Multi-agent Cooperation. *Yuan, Q., +, JIoT Nov. 15, 2021 16359-16369*

Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*

Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y., +, JIoT Nov. 1, 2021 16023-16034*

Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A., +, JIoT Oct. 1, 2021 14874-14895*

Encryption

Heterogeneous Signcryption With Equality Test for IIoT Environment. *Xiong, H., +, JIoT Nov. 1, 2021 16142-16152*

Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahim, M.I., +, JIoT Dec. 1, 2021 17131-17146*

Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J., +, JIoT Dec. 1, 2021 17029-17042*

Energy conservation

A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T., +, JIoT June 15, 2021 9473-9483*

A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X., +, JIoT Feb. 15, 2021 2431-2443*

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*

A New Preventive Routing Method Based on Clustering and Location Prediction in the Mobile Internet of Things. *Sadrishojaei, M., +, JIoT July 1, 2021 10652-10664*

A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N., +, JIoT Sept. 15, 2021 14080-14093*

A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L., +, JIoT Aug. 1, 2021 12046-12063*

A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H., +, JIoT April 1, 2021 6002-6011*

- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M., JIoT Feb. 15, 2021 2585-2602*
- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z., +, JIoT Oct. 1, 2021 14756-14772*
- An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. *Lee, J., +, JIoT May 1, 2021 7105-7114*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z., +, JIoT April 1, 2021 5350-5359*
- Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L., +, JIoT July 1, 2021 10731-10744*
- Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X., +, JIoT April 1, 2021 5453-5467*
- Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S., +, JIoT Oct. 15, 2021 15628-15638*
- Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelinakis, F., +, JIoT Jan. 15, 2021 1224-1242*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M., +, JIoT July 15, 2021 11135-11149*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J., +, JIoT May 15, 2021 8570-8584*
- Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W., +, JIoT Feb. 1, 2021 1921-1933*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H., +, JIoT Sept. 1, 2021 13465-13486*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y., +, JIoT Sept. 1, 2021 13640-13651*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H., +, JIoT July 1, 2021 10779-10791*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R., +, JIoT Sept. 1, 2021 13593-13607*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z., +, JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M., JIoT May 1, 2021 7252-7269*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L., +, JIoT April 1, 2021 5114-5128*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X., +, JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z., +, JIoT Sept. 15, 2021 14232-14247*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S., +, JIoT June 15, 2021 10209-10219*
- High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network. *Sun, Y., +, JIoT Jan. 15, 2021 1071-1081*
- Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*
- Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. *Yu, C., +, JIoT April 15, 2021 7101-7102*
- Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. *Lee, C., +, JIoT Aug. 1, 2021 11776-11792*
- Power-Efficient Software-Defined Data Center Network. *Zhao, Y., +, JIoT June 15, 2021 10018-10033*
- Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L., +, JIoT July 1, 2021 10518-10530*
- Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M., +, JIoT May 15, 2021 8005-8020*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z., +, JIoT Feb. 1, 2021 1702-1715*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y., +, JIoT Oct. 1, 2021 14908-14919*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H., +, JIoT April 1, 2021 5141-5148*
- Toward Achieving a Balance Between the User Satisfaction and the Power Conservation in the Internet of Things. *Abusukhon, A., JIoT July 15, 2021 10998-11015*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H., +, JIoT June 15, 2021 9664-9671*
- Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S., +, JIoT April 1, 2021 5408-5415*
- Energy consumption**
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T., +, JIoT June 15, 2021 9473-9483*
- A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J., +, JIoT Dec. 15, 2021 17508-17524*
- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G., +, JIoT Jan. 15, 2021 684-694*
- A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks. *Su, Y., +, JIoT March 1, 2021 3653-3664*
- A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L., +, JIoT Aug. 1, 2021 12046-12063*
- Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y., +, JIoT July 1, 2021 10896-10910*
- Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A., +, JIoT Dec. 15, 2021 17395-17402*
- An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P., +, JIoT Aug. 15, 2021 12597-12609*
- An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T., +, JIoT March 1, 2021 3170-3179*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z., +, JIoT Oct. 1, 2021 14756-14772*
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M., +, JIoT Dec. 15, 2021 17275-17289*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z., +, JIoT April 1, 2021 5350-5359*
- Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). *Li, J., +, JIoT June 15, 2021 10052-10070*
- Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y., +, JIoT Oct. 1, 2021 14920-14933*
- Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelinakis, F., +, JIoT Jan. 15, 2021 1224-1242*
- ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices. *Safaei, B., +, JIoT Jan. 15, 2021 1169-1182*

- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J., +, JIoT May 15, 2021 8570-8584*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M., +, JIoT Aug. 15, 2021 12638-12649*
- Energy-Efficient Deployment of IoT Applications in Edge-Based Infrastructures: A Software Product Line Approach. *Canete, A., +, JIoT Nov. 15, 2021 16427-16439*
- Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. *Kouroshezhad, S., +, JIoT April 1, 2021 5202-5210*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H., +, JIoT July 1, 2021 10779-10791*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S., +, JIoT June 15, 2021 10209-10219*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T., +, JIoT Jan. 15, 2021 766-777*
- Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. *Xing, G., +, JIoT June 1, 2021 9005-9013*
- Improved Soft- k -Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B., +, JIoT March 15, 2021 4868-4881*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N., +, JIoT May 15, 2021 8259-8278*
- Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*
- Energy efficiency**
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S., +, JIoT April 1, 2021 5111-5113*
- Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IoT. *Qiu, M., +, JIoT June 15, 2021 9460-9462*
- Energy harvesting**
- A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T., +, JIoT May 1, 2021 7423-7436*
- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H., +, JIoT March 15, 2021 4802-4815*
- Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y., +, JIoT July 1, 2021 10896-10910*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M., +, JIoT Sept. 1, 2021 13414-13424*
- An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. *Lee, J., +, JIoT May 1, 2021 7105-7114*
- Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks. *Hentati, A., +, JIoT March 15, 2021 4920-4930*
- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*
- Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T., +, JIoT March 1, 2021 3939-3954*
- Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X., +, JIoT June 1, 2021 9233-9243*
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C., +, JIoT Feb. 15, 2021 2694-2711*
- Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S., +, JIoT May 15, 2021 8585-8602*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L., +, JIoT July 1, 2021 10731-10744*
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C., +, JIoT March 1, 2021 3972-3982*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X., +, JIoT April 1, 2021 5453-5467*
- Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S., +, JIoT April 1, 2021 5850-5865*
- Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F., +, JIoT March 1, 2021 3678-3688*
- Dynamic Resource Optimization for Decentralized Estimation in Energy Harvesting IoT Networks. *Battiloro, C., +, JIoT May 15, 2021 8530-8542*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*
- Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M., +, JIoT Jan. 1, 2021 179-186*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T., +, JIoT March 1, 2021 3369-3383*
- Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y., +, JIoT Sept. 1, 2021 13640-13651*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z., +, JIoT Sept. 15, 2021 14232-14247*
- Exploring the Boundaries of Ambient RF Energy Harvesting With LoRaWAN. *Finnegan, J., +, JIoT April 1, 2021 5736-5743*
- Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration. *Moon, J.H., +, JIoT Feb. 1, 2021 1437-1452*
- High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables. *Cai, M., +, JIoT Jan. 1, 2021 297-308*
- Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V., +, JIoT March 15, 2021 5009-5022*
- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P., +, JIoT March 15, 2021 4830-4840*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y., +, JIoT May 15, 2021 8399-8410*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y., +, JIoT Feb. 15, 2021 2792-2801*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*
- Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q -Learning Approach. *Jia, R., +, JIoT Sept. 15, 2021 14299-14307*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X., +, JIoT Jan. 1, 2021 332-344*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J., +, JIoT Oct. 15, 2021 15126-15139*
- Minimizing Redundant Sensing Data Transmissions in Energy-Harvesting Sensor Networks via Exploring Spatial Data Correlations. *Guo, Z., +, JIoT Jan. 1, 2021 512-527*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H., +, JIoT Dec. 15, 2021 17541-17556*
- Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. *Lee, C., +, JIoT Aug. 1, 2021 11776-11792*

- Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *Evans, J.W.*, +, *JIoT June 15, 2021 10047-10051*
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*
- Optimizing Superframe and Data Buffer to Achieve Maximum Throughput for 802.15.4-Based Energy Harvesting Wireless Sensor Networks. *Zhu, Y.*, +, *JIoT March 1, 2021 3689-3704*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T.*, +, *JIoT July 15, 2021 11655-11665*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*
- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H.*, +, *JIoT April 1, 2021 5632-5644*
- Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C.*, +, *JIoT July 15, 2021 11249-11259*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G.*, +, *JIoT Sept. 15, 2021 14385-14398*
- Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*
- Review on Metamaterial Perfect Absorbers and Their Applications to IoT. *Amiri, M.*, +, *JIoT March 15, 2021 4105-4131*
- RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021 528-540*
- Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X.*, +, *JIoT Sept. 1, 2021 13737-13749*
- Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*
- Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis. *Sandhu, M.M.*, +, *JIoT Sept. 15, 2021 13825-13848*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X.*, +, *JIoT Feb. 1, 2021 1728-1739*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*
- Energy management systems**
- A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L.*, +, *JIoT Aug. 1, 2021 12046-12063*
- An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T.*, +, *JIoT March 1, 2021 3170-3179*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L.*, +, *JIoT May 15, 2021 7938-7953*
- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*
- Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12422-12435*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q-Learning Approach. *Jia, R.*, +, *JIoT Sept. 15, 2021 14299-14307*
- Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. *Lee, C.*, +, *JIoT Aug. 1, 2021 11776-11792*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X.*, +, *JIoT Feb. 1, 2021 1728-1739*
- Energy measurement**
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*
- Energy storage**
- ViPSN: A Vibration-Powered IoT Platform. *Li, X.*, +, *JIoT Feb. 1, 2021 1728-1739*
- Enterprise resource planning**
- A Review of Internet of Things—Resource Allocation. *Li, X.*, +, *JIoT June 1, 2021 8657-8666*
- Entropy**
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*
- IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G.*, +, *JIoT Jan. 15, 2021 1057-1070*
- MTD, Where Art Thou? A Systematic Review of Moving Target Defense Techniques for IoT. *Navas, R.E.*, +, *JIoT May 15, 2021 7818-7832*
- Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R.*, +, *JIoT Dec. 15, 2021 17568-17583*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H.*, +, *JIoT April 1, 2021 5141-5148*
- Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy. *Liang, S.D.*, *JIoT Oct. 15, 2021 15267-15275*
- Environmental economics**
- Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*
- Environmental factors**
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*
- Environmental monitoring (geophysics)**
- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L.*, +, *JIoT Sept. 15, 2021 13805-13824*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*
- Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*
- IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*

Environmental science computing

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J.*, +, *JIoT Jan. 1, 2021 428-442*

Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K.*, +, *JIoT June 1, 2021 9257-9267*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J.*, +, *JIoT May 1, 2021 7649-7660*

Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*

Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*

Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14372-14384*

Epidemics

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*

Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P.*, +, *JIoT April 15, 2021 6949-6962*

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*

Equalizers

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D.*, +, *JIoT Aug. 15, 2021 12880-12891*

Erosion

CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y.*, +, *JIoT April 15, 2021 6893-6903*

Error correction codes

Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*

Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*

Error statistics

Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*

Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*

Generalized Differential Index Modulation for Pilot-Free Communications. *Choi, J.*, +, *JIoT May 15, 2021 7973-7984*

Interleaved Chirp Spreading LoRa as a Parallel Network to Enhance LoRa Capacity. *Edward, P.*, +, *JIoT March 1, 2021 3864-3874*

Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L.*, +, *JIoT April 1, 2021 5129-5140*

MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J.*, +, *JIoT Oct. 15, 2021 15512-15521*

On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O.*, +, *JIoT July 15, 2021 11581-11593*

Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*

Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*

Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*

Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z.*, +, *JIoT April 15, 2021 6385-6392*

Slope-Shift Keying LoRa-Based Modulation. *Hanif, M.*, +, *JIoT Jan. 1, 2021 211-221*

Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Estimation

A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S.*, +, *JIoT Dec. 1, 2021 17186-17198*

A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S.*, +, *JIoT Jan. 15, 2021 1082-1094*

Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*

Count Estimation With a Low-Accuracy Machine Learning Model. *Sei, Y.*, +, *JIoT April 15, 2021 7079-7088*

Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W.*, +, *JIoT July 1, 2021 10573-10582*

End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C.*, +, *JIoT Dec. 1, 2021 17043-17056*

mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Nov. 15, 2021 16623-16636*

Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks. *Jang, H.S.*, +, *JIoT July 15, 2021 11640-11654*

WiCrowd: Counting the Directional Crowd With a Single Wireless Link. *Zhang, L.*, +, *JIoT May 15, 2021 8644-8656*

Evolutionary computation

An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z.*, +, *JIoT Jan. 15, 2021 1109-1122*

Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G.*, +, *JIoT Sept. 1, 2021 13723-13736*

Expectation-maximization algorithms

Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J.*, +, *JIoT Oct. 1, 2021 14773-14786*

Explosions

IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhe-
lim, S.*, +, *JIoT Dec. 15, 2021 17817-17828*

Exponential distribution

Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*

Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y.*, +, *JIoT May 15, 2021 8223-8233*

F

Fabrics

Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y.*, +, *JIoT Nov. 1, 2021 15785-15795*

Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S.*, +, *JIoT Sept. 1, 2021 13763-13773*

Face recognition

A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*

Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A.*, +, *JIoT June 15, 2021 9603-9610*

Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G.*, +, *JIoT Dec. 1, 2021 16894-16901*

Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P.*, +, *JIoT April 15, 2021 6949-6962*

Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z.*, +, *JIoT May 1, 2021 7279-7287*

Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S., +, JIoT April 1, 2021 5607-5618*

Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S., +, JIoT Dec. 15, 2021 17320-17332*

Facility location

Industrial Security Solution for Virtual Reality. *Lv, Z., +, JIoT April 15, 2021 6273-6281*

Factory automation

Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M., JIoT Feb. 15, 2021 2585-2602*

Fading channels

5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X., +, JIoT Sept. 15, 2021 14399-14417*

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*

A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X., +, JIoT July 15, 2021 11276-11289*

Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*

Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J., +, JIoT April 1, 2021 5531-5543*

Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouissem, A., +, JIoT Dec. 1, 2021 16880-16893*

Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L., +, JIoT April 1, 2021 5129-5140*

Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J., +, JIoT Oct. 15, 2021 15126-15139*

Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*

Rateless TLRCM for IoT Uplink Transmission. *Rao, W., +, JIoT July 1, 2021 10608-10618*

Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A., +, JIoT Oct. 1, 2021 14822-14834*

Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T., +, JIoT June 15, 2021 10160-10169*

Failure analysis

A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y., +, JIoT Aug. 1, 2021 12360-12374*

CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y., +, JIoT April 15, 2021 6893-6903*

Fans

Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*

Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H., +, JIoT Dec. 1, 2021 17100-17110*

WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans. *Jun, H., +, JIoT July 15, 2021 11690-11704*

Farming

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*

Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A., +, JIoT July 1, 2021 10792-10806*

Fatigue

sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q., +, JIoT Dec. 1, 2021 16835-16844*

Fault diagnosis

A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain. *Zhang, W., +, JIoT Feb. 15, 2021 2354-2363*

A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R., +, JIoT March 15, 2021 4339-4352*

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*

Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H., +, JIoT June 1, 2021 9450-9459*

Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A., +, JIoT June 1, 2021 9397-9406*

Fault tolerance

A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D., +, JIoT March 1, 2021 3587-3604*

An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid. *Merad-Boudia, O.R., +, JIoT April 15, 2021 6143-6153*

Blockchain-Enabled Cyber-Physical Systems: A Review. *Zhao, W., +, JIoT March 15, 2021 4023-4034*

Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*

Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework. *Rauf, B., +, JIoT April 15, 2021 6359-6371*

Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A., +, JIoT Dec. 1, 2021 16963-16971*

Fault tolerant computing

Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*

Fault tolerant systems

Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A., +, JIoT Dec. 1, 2021 16963-16971*

Feature extraction

A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm. *Li, A., +, JIoT Jan. 1, 2021 187-196*

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y., +, JIoT Dec. 15, 2021 17449-17459*

A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R., +, JIoT March 15, 2021 4339-4352*

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S., +, JIoT Jan. 15, 2021 1154-1168*

A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X., +, JIoT July 15, 2021 11276-11289*

Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F., +, JIoT Feb. 1, 2021 1636-1650*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*

Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L., +, JIoT Dec. 1, 2021 16787-16800*

An Accurate and Efficient 1-D Barcode Detector for Medium of Deployment in IoT Systems. *Sharif, A., +, JIoT Jan. 15, 2021 889-900*

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L., +, JIoT July 15, 2021 11357-11367*

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y., +, JIoT April 15, 2021 6789-6799*

Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S., +, JIoT Nov. 1, 2021 15990-16001*

- Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*
- Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H., +, JIoT April 15, 2021 6940-6948*
- CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q., +, JIoT Dec. 1, 2021 16946-16962*
- CoFF: Cooperative Spatial Feature Fusion for 3-D Object Detection on Autonomous Vehicles. *Guo, J., +, JIoT July 15, 2021 11078-11087*
- Combining Pose Invariant and Discriminative Features for Vehicle Reidentification. *Sheng, H., +, JIoT March 1, 2021 3189-3200*
- Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X., +, JIoT July 15, 2021 11041-11051*
- Context-Aware Wireless-Based Cross-Domain Gesture Recognition. *Kang, H., +, JIoT Sept. 1, 2021 13503-13515*
- Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F., +, JIoT Dec. 1, 2021 16758-16769*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M., +, JIoT March 1, 2021 3242-3254*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B., +, JIoT July 15, 2021 11052-11064*
- Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X., +, JIoT May 1, 2021 7466-7475*
- Deep-Learning-Enabled Security Issues in the Internet of Things. *Ly, Z., +, JIoT June 15, 2021 9531-9538*
- DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C., +, JIoT April 1, 2021 5669-5681*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G., +, JIoT Nov. 15, 2021 16440-16451*
- Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y., +, JIoT June 15, 2021 9594-9602*
- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*
- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y., +, JIoT Aug. 15, 2021 12734-12747*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R., +, JIoT Aug. 1, 2021 12410-12421*
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A., +, JIoT Dec. 15, 2021 17495-17507*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M., +, JIoT Oct. 15, 2021 15059-15069*
- False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D., +, JIoT Jan. 1, 2021 585-595*
- FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*
- Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X., +, JIoT Feb. 1, 2021 1373-1387*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I., +, JIoT March 15, 2021 4944-4956*
- Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y., +, JIoT Feb. 1, 2021 1544-1556*
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L., +, JIoT Dec. 1, 2021 16814-16824*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J., +, JIoT Aug. 1, 2021 12350-12359*
- Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S., +, JIoT Oct. 15, 2021 15170-15179*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W., +, JIoT June 15, 2021 9905-9919*
- MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L., +, JIoT June 1, 2021 9383-9396*
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R., +, JIoT Dec. 1, 2021 16825-16834*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*
- People Counting Using IR-UWB Radar Sensor in a Wide Area. *Choi, J., +, JIoT April 1, 2021 5806-5821*
- Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T., +, JIoT Feb. 1, 2021 1533-1543*
- ReType: Your Breath Tells Your Mind!. *Wang, Q., +, JIoT June 1, 2021 9436-9449*
- Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N., +, JIoT Nov. 15, 2021 16379-16394*
- sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q., +, JIoT Dec. 1, 2021 16835-16844*
- Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y., +, JIoT Dec. 1, 2021 16770-16778*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z., +, JIoT Sept. 15, 2021 14003-14012*
- Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S., +, JIoT Dec. 15, 2021 17320-17332*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications. *Abdel-Basset, M., +, JIoT March 15, 2021 4969-4979*
- Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X., +, JIoT March 15, 2021 4980-4990*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S., +, JIoT Dec. 1, 2021 17147-17160*
- Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X., +, JIoT April 15, 2021 6187-6196*
- Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z., +, JIoT Sept. 15, 2021 14372-14384*
- Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things. *Zhang, Z., +, JIoT Oct. 15, 2021 15259-15266*
- Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. *Liu, W., +, JIoT March 15, 2021 4681-4696*
- Feature selection**
- A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H., +, JIoT March 15, 2021 4540-4547*
- Feedback**
- Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L., +, JIoT Jan. 1, 2021 626-635*
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H., +, JIoT Jan. 1, 2021 197-210*
- Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X., +, JIoT Oct. 1, 2021 14845-14859*
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M., +, JIoT Feb. 15, 2021 2615-2626*

- Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. *Zhu, J., +, JIoT Sept. 1, 2021 13542-13554*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T., +, JIoT Oct. 15, 2021 15334-15348*
- Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y., +, JIoT Sept. 15, 2021 14039-14050*
- Feedforward neural networks**
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J., +, JIoT Jan. 15, 2021 951-961*
- Femtocellular radio**
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y., +, JIoT Oct. 1, 2021 14908-14919*
- Fetal heart rate**
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L., +, JIoT Dec. 1, 2021 16814-16824*
- Fiber optic sensors**
- Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J., +, JIoT Oct. 15, 2021 15284-15291*
- Field programmable gate arrays**
- CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B., +, JIoT Dec. 15, 2021 17790-17801*
- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S., +, JIoT July 1, 2021 10706-10713*
- Shadow: A Lightweight Block Cipher for IoT Nodes. *Guo, Y., +, JIoT Aug. 15, 2021 13014-13023*
- File servers**
- Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G., +, JIoT Sept. 1, 2021 13723-13736*
- Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z., +, JIoT Aug. 15, 2021 12679-12693*
- Filtering**
- A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y., +, JIoT Dec. 15, 2021 17449-17459*
- Filtering theory**
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D., +, JIoT Aug. 1, 2021 12137-12149*
- Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*
- Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*
- Financial data processing**
- Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. *Nguyen, L.D., +, JIoT April 15, 2021 6487-6497*
- Fingerprint identification**
- A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X., +, JIoT July 15, 2021 11276-11289*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*
- Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach. *Wang, X., +, JIoT March 15, 2021 4498-4513*
- Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications. *Mukhopadhyay, B., +, JIoT Sept. 1, 2021 13384-13396*
- Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach. *Yang, J., +, JIoT July 1, 2021 10693-10705*
- FIR filters**
- Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y., +, JIoT Feb. 1, 2021 1716-1727*
- Fires**
- Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M., +, JIoT June 1, 2021 9373-9382*
- Firewalls**
- Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaikhan, A., +, JIoT April 1, 2021 6039-6052*
- Flaw detection**
- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C., +, JIoT May 1, 2021 7510-7520*
- Floors**
- Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications. *Mukhopadhyay, B., +, JIoT Sept. 1, 2021 13384-13396*
- Flow shop scheduling**
- Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*
- FM radar**
- 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*
- Fokker-Planck equation**
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*
- Force**
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J., +, JIoT Dec. 1, 2021 16801-16813*
- Forecasting**
- Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C., +, JIoT Nov. 1, 2021 15906-15918*
- Forestry**
- The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M., +, JIoT Dec. 1, 2021 16984-16999*
- Formal specification**
- A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M., +, JIoT Aug. 1, 2021 11793-11806*
- Formal verification**
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A., +, JIoT July 1, 2021 10792-10806*
- Fourier transforms**
- Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis. *Xiao, Z., +, JIoT March 1, 2021 3812-3821*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W., +, JIoT June 15, 2021 9905-9919*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- Fraud**
- FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories. *Ding, Y., +, JIoT Aug. 15, 2021 12505-12517*
- Free-space optical communication**
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H., +, JIoT July 1, 2021 10779-10791*
- Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y., +, JIoT Jan. 15, 2021 1183-1196*
- Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC. *Shakil Sejan, M.A., +, JIoT May 1, 2021 7214-7228*
- Frequency allocation**
- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M., JIoT Feb. 15, 2021 2585-2602*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y., +, JIoT May 15, 2021 8159-8172*
- Frequency control**
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J., +, JIoT March 1, 2021 3438-3445*
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y., +, JIoT Feb. 15, 2021 2910-2919*
- Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack. *Li, Y., +, JIoT Oct. 15, 2021 15522-15530*
- Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H., +, JIoT Dec. 1, 2021 17100-17110*

Frequency conversion

SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V., +, JIoT Nov. 15, 2021 16637-16652*

Frequency division multiple access

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B., +, JIoT March 15, 2021 4657-4667*

Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*

Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W., +, JIoT Aug. 15, 2021 13052-13064*

Frequency estimation

Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H., +, JIoT May 1, 2021 7437-7449*

Frequency hop communication

Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H., +, JIoT May 1, 2021 7437-7449*

Frequency modulation

Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X., +, JIoT Sept. 1, 2021 13737-13749*

Frequency shift keying

Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M., +, JIoT Dec. 15, 2021 17611-17621*

Frequency-domain analysis

Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis. *Xiao, Z., +, JIoT March 1, 2021 3812-3821*

False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D., +, JIoT Jan. 1, 2021 585-595*

Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N., +, JIoT March 15, 2021 4711-4722*

Function approximation

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*

Fuzzy control

6G-Enabled IoT Home Environment Control Using Fuzzy Rules. *Wozniak, M., +, JIoT April 1, 2021 5442-5452*

Fuzzy logic

Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H., +, JIoT April 1, 2021 5230-5239*

FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*

Fuzzy set theory

A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H., +, JIoT March 15, 2021 4540-4547*

FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*

Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D., +, JIoT July 15, 2021 11193-11207*

Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S., +, JIoT July 1, 2021 10706-10713*

G**Gait analysis**

Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*

High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables. *Cai, M., +, JIoT Jan. 1, 2021 297-308*

Multiple People Identification Through Walls Using Off-the-Shelf WiFi. *Korany, B., +, JIoT April 15, 2021 6963-6974*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q., +, JIoT Feb. 1, 2021 2011-2026*

Game theory

A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J., +, JIoT May 1, 2021 7546-7561*

A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J., +, JIoT Feb. 1, 2021 2040-2050*

A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y., +, JIoT April 1, 2021 6089-6100*

A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V., +, JIoT July 1, 2021 10583-10595*

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T., +, JIoT Oct. 15, 2021 15486-15499*

A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F., +, JIoT Feb. 15, 2021 2468-2482*

A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z., +, JIoT Aug. 15, 2021 12658-12668*

An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y., +, JIoT May 15, 2021 8616-8631*

Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. *Zuo, Y., +, JIoT June 1, 2021 9084-9098*

Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*

Colonel Blotto Game for Sensor Protection in Interdependent Critical Infrastructure. *Ferdowsi, A., +, JIoT Feb. 15, 2021 2857-2874*

Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. *Li, J., +, JIoT Jan. 15, 2021 734-749*

Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H., +, JIoT April 1, 2021 5544-5557*

D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y., +, JIoT Aug. 15, 2021 12490-12504*

Distributed Task Offloading Optimization With Queuing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J., +, JIoT Aug. 1, 2021 12311-12328*

Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K., +, JIoT April 15, 2021 6709-6719*

Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X., +, JIoT Aug. 15, 2021 13115-13125*

Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W., +, JIoT Dec. 15, 2021 17691-17704*

Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B., +, JIoT Feb. 1, 2021 1830-1845*

Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. *Xing, G., +, JIoT June 1, 2021 9005-9013*

Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System. *Li, C., +, JIoT May 1, 2021 7192-7202*

HoneyPot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W., +, JIoT Dec. 15, 2021 17372-17381*

Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y., +, JIoT Feb. 15, 2021 3000-3013*

Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N., +, JIoT May 15, 2021 8259-8278*

Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S., +, JIoT April 1, 2021 5172-5184*

IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry. *Bhatia, M., JIoT June 15, 2021 9523-9530*

- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T.*, +, *JIoT Sept. 15, 2021 14418-14430*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q.*, +, *JIoT June 15, 2021 9995-10009*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D.*, +, *JIoT Jan. 15, 2021 813-828*
- Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J.*, +, *JIoT July 15, 2021 11219-11232*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z.*, +, *JIoT Feb. 15, 2021 2364-2378*
- Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M.*, +, *JIoT Sept. 1, 2021 13690-13702*
- Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A.*, +, *JIoT April 1, 2021 5185-5193*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. *Hammouti, H.E.*, +, *JIoT Sept. 15, 2021 14066-14079*
- Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*
- Games**
- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H.*, +, *JIoT Nov. 15, 2021 16349-16358*
- Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P.*, +, *JIoT Nov. 1, 2021 15863-15874*
- Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A.*, +, *JIoT Nov. 15, 2021 16680-16691*
- Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouisse, A.*, +, *JIoT Dec. 1, 2021 16880-16893*
- Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A.*, +, *JIoT Nov. 15, 2021 16395-16405*
- Gas industry**
- Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing. *Miao, Y.*, +, *JIoT Feb. 15, 2021 2289-2299*
- Gaussian channels**
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*
- Rateless TLRMC for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*
- Gaussian distribution**
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M.*, +, *JIoT Oct. 15, 2021 15240-15248*
- Gaussian noise**
- Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*
- Comprehensive Analysis on Least-Squares Iteration for Indoor Positioning Systems. *Cengiz, K.*, *JIoT Feb. 15, 2021 2842-2856*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D.*, +, *JIoT June 1, 2021 9059-9071*
- Gaussian processes**
- 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M.*, +, *JIoT Oct. 15, 2021 15117-15125*
- A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B.*, +, *JIoT Sept. 1, 2021 13567-13581*
- A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*
- A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X.*, +, *JIoT July 15, 2021 11276-11289*
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*
- Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J.*, +, *JIoT Jan. 1, 2021 244-261*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*
- Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S.*, +, *JIoT April 1, 2021 5607-5618*
- Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malariski, K.M.*, +, *JIoT April 15, 2021 6746-6756*
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M.*, +, *JIoT Oct. 15, 2021 15240-15248*
- Gears**
- High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables. *Cai, M.*, +, *JIoT Jan. 1, 2021 297-308*
- Gender issues**
- Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L.*, +, *JIoT Feb. 15, 2021 3014-3026*
- Generative adversarial networks**
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D.*, +, *JIoT Dec. 15, 2021 17345-17355*
- Generators**
- Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C.*, +, *JIoT Dec. 1, 2021 16902-16910*
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D.*, +, *JIoT Dec. 15, 2021 17345-17355*
- Genetic algorithms**
- Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*
- A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A.*, +, *JIoT March 1, 2021 3885-3903*
- A Genetic Algorithm Based on Auxiliary-Individual-Directed Crossover for Internet-of-Things Applications. *Fan, Q.*, +, *JIoT April 1, 2021 5518-5530*
- A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem. *Sharma, R.*, +, *JIoT Sept. 1, 2021 13439-13448*
- A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*
- An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z.*, +, *JIoT Jan. 15, 2021 1109-1122*
- BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S.*, +, *JIoT Sept. 1, 2021 13251-13265*
- Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y.*, +, *JIoT March 15, 2021 4906-4919*
- DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P.*, +, *JIoT March 15, 2021 4448-4460*
- Efficient Task Assignment for Multiple Vehicles With Partially Unreachable Target Locations. *Bai, X.*, +, *JIoT March 1, 2021 3730-3742*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X.*, +, *JIoT July 1, 2021 10843-10856*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*
- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*

- Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things. *Liao, Z., +, JIoT May 1, 2021 7575-7588*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L., +, JIoT May 15, 2021 8107-8118*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C., +, JIoT April 1, 2021 5340-5349*
- Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. *Wen, P., +, JIoT June 1, 2021 9045-9058*
- Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G., +, JIoT July 1, 2021 10714-10730*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*
- Geographic information systems**
- Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City. *Yang, J., +, JIoT April 15, 2021 6416-6424*
- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L., +, JIoT Aug. 15, 2021 12610-12622*
- Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X., +, JIoT March 15, 2021 4526-4539*
- Geometry**
- A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H., +, JIoT June 15, 2021 9865-9877*
- Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R., +, JIoT March 15, 2021 4697-4710*
- Geophysical image processing**
- A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z., +, JIoT Aug. 15, 2021 12540-12549*
- Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P., +, JIoT March 1, 2021 3287-3299*
- Geophysical signal processing**
- Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H., +, JIoT Feb. 15, 2021 2814-2825*
- Geophysics computing**
- Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N., +, JIoT May 1, 2021 7270-7278*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J., +, JIoT March 1, 2021 3323-3330*
- IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis. *Yun, J., +, JIoT May 1, 2021 7380-7393*
- Geriatrics**
- 2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*
- Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K., +, JIoT May 15, 2021 8343-8355*
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V., +, JIoT May 15, 2021 8133-8144*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- Gesture recognition**
- mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D., +, JIoT Sept. 1, 2021 13291-13305*
- Context-Aware Wireless-Based Cross-Domain Gesture Recognition. *Kang, H., +, JIoT Sept. 1, 2021 13503-13515*
- CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H., +, JIoT Oct. 1, 2021 14658-14671*
- Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J., +, JIoT March 15, 2021 4628-4641*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R., +, JIoT Oct. 15, 2021 15396-15406*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*
- Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey. *Abuhamad, M., +, JIoT Jan. 1, 2021 65-84*
- TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M., +, JIoT July 1, 2021 10336-10346*
- Global navigation satellite system**
- A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q., +, JIoT Dec. 1, 2021 17014-17028*
- Global Positioning System**
- A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S., +, JIoT Jan. 15, 2021 1082-1094*
- A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C., +, JIoT Dec. 1, 2021 16911-16920*
- Comprehensive Analysis on Least-Squares Iteration for Indoor Positioning Systems. *Cengiz, K., JIoT Feb. 15, 2021 2842-2856*
- DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chikara, P., +, JIoT March 15, 2021 4448-4460*
- Distributed and Collaborative Localization for Swarming UAVs. *Chen, R., +, JIoT March 15, 2021 5062-5074*
- Distributed TDMA for Mobile UWB Network Localization. *Cao, Y., +, JIoT Sept. 1, 2021 13449-13464*
- End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C., +, JIoT Dec. 1, 2021 17043-17056*
- Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K., +, JIoT Oct. 1, 2021 14589-14606*
- Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R., +, JIoT Aug. 15, 2021 12955-12967*
- Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R., +, JIoT April 15, 2021 7065-7078*
- Massive MIMO for High-Accuracy Target Localization and Tracking. *Zeng, X., +, JIoT June 15, 2021 10131-10145*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I., +, JIoT March 1, 2021 3605-3618*
- Government**
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P., +, JIoT Nov. 1, 2021 15863-15874*
- Government data processing**
- A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V., +, JIoT Feb. 15, 2021 2409-2418*
- Government policies**
- Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P., +, JIoT July 1, 2021 10963-10972*
- Gradient methods**
- A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P., +, JIoT July 15, 2021 11476-11486*
- Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A., +, JIoT July 1, 2021 10665-10677*
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H., +, JIoT Jan. 1, 2021 197-210*
- CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M., +, JIoT Aug. 1, 2021 12203-12218*

- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z.*, +, *JIoT July 1, 2021 10940-10952*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M.*, +, *JIoT April 15, 2021 6454-6468*
- Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R.*, +, *JIoT April 15, 2021 7065-7078*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N.*, +, *JIoT May 15, 2021 8259-8278*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K.*, +, *JIoT April 1, 2021 5332-5339*
- Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X.*, +, *JIoT March 15, 2021 4980-4990*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*
- Graph theory**
- A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D.*, +, *JIoT March 1, 2021 3587-3604*
- A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*
- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M.*, +, *JIoT July 1, 2021 10830-10842*
- A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*
- Adversarial Privacy-Preserving Graph Embedding Against Inference Attack. *Li, K.*, +, *JIoT April 15, 2021 6904-6915*
- An Evolutionary Study of IoT Malware. *Wang, H.*, +, *JIoT Oct. 15, 2021 15422-15440*
- Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis. *Xiao, Z.*, +, *JIoT March 1, 2021 3812-3821*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G.*, +, *JIoT Nov. 15, 2021 16440-16451*
- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W.*, +, *JIoT July 1, 2021 10573-10582*
- Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D.*, +, *JIoT Feb. 15, 2021 2959-2975*
- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y.*, +, *JIoT May 1, 2021 7288-7302*
- Efficient Approaches to Top-r Influential Community Search. *Luo, W.*, +, *JIoT Aug. 15, 2021 12650-12657*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. *Kouroshezhad, S.*, +, *JIoT April 1, 2021 5202-5210*
- Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*
- LDP-Based Social Content Protection for Trending Topic Recommendation. *Wei, J.*, +, *JIoT March 15, 2021 4353-4372*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T.*, +, *JIoT Feb. 1, 2021 1687-1701*
- Multilayer Internet-of-Things Middleware Based on Knowledge Graph. *Xie, C.*, +, *JIoT Feb. 15, 2021 2635-2648*
- Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*
- Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*
- Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*
- Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M.*, +, *JIoT Sept. 1, 2021 13425-13438*
- SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*
- The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F.*, +, *JIoT Sept. 1, 2021 13266-13277*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*
- Graphical user interfaces**
- FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L.*, +, *JIoT May 1, 2021 7333-7345*
- Graphics processing units**
- Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. *Li, C.*, +, *JIoT Oct. 1, 2021 14543-14558*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M.*, +, *JIoT June 1, 2021 9177-9188*
- Greedy algorithms**
- A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs. *Zhu, Z.*, +, *JIoT March 1, 2021 3831-3850*
- A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*
- Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J.*, +, *JIoT Oct. 1, 2021 14971-14984*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R.*, +, *JIoT Sept. 1, 2021 13593-13607*

High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network. *Sun, Y., +, JIoT Jan. 15, 2021 1071-1081*

Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F., +, JIoT June 15, 2021 10170-10186*

Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space–Air–Ground-Integrated Power IoT. *Liao, H., +, JIoT April 1, 2021 5250-5263*

Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things. *Li, Y., +, JIoT March 15, 2021 4514-4525*

Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X., +, JIoT Jan. 1, 2021 332-344*

Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S., +, JIoT June 15, 2021 10010-10017*

Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*

The Complexity–Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F., +, JIoT Sept. 1, 2021 13266-13277*

The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. *Hammouti, H.E., +, JIoT Sept. 15, 2021 14066-14079*

You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y., +, JIoT Jan. 15, 2021 1197-1210*

Green computing

Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S., +, JIoT April 1, 2021 5408-5415*

Grid computing

Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L., +, JIoT Feb. 15, 2021 2330-2341*

Ground penetrating radar

Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M., +, JIoT July 15, 2021 11594-11606*

Ground support equipment

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S., +, JIoT Jan. 1, 2021 572-584*

Group theory

OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H., +, JIoT March 15, 2021 4329-4338*

Groupware

Federated Sensing: Edge-Cloud Elastic Collaborative Learning for Intelligent Sensing. *Gao, Y., +, JIoT July 15, 2021 11100-11111*

A Win–Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F., +, JIoT March 15, 2021 3983-4003*

Achieving Democracy in Edge Intelligence: A Fog-Based Collaborative Learning Scheme. *Zhang, T., +, JIoT Feb. 15, 2021 2751-2761*

Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*

CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*

Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C., +, JIoT Aug. 15, 2021 12806-12825*

Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z., +, JIoT June 15, 2021 9549-9558*

Gyroscopes

A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S., +, JIoT Dec. 1, 2021 17186-17198*

H

Hadamard codes

Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z., +, JIoT Sept. 15, 2021 13975-13990*

Handicapped aids

Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A., +, JIoT July 1, 2021 10953-10962*

Handwritten character recognition

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D., +, JIoT Sept. 1, 2021 13291-13305*

Hardware

An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A., +, JIoT Nov. 1, 2021 15847-15854*

Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N., +, JIoT Nov. 15, 2021 16379-16394*

Hardware acceleration

CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B., +, JIoT Dec. 15, 2021 17790-17801*

Hardware accelerators

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H., +, JIoT June 1, 2021 9219-9232*

Hardware-software codesign

Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S., +, JIoT July 1, 2021 10706-10713*

Health care

2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*

A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y., +, JIoT April 1, 2021 6089-6100*

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J., +, JIoT June 15, 2021 10034-10046*

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z., +, JIoT June 1, 2021 9122-9138*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B., +, JIoT July 1, 2021 10248-10263*

A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A., +, JIoT April 1, 2021 5914-5925*

Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A., +, JIoT June 15, 2021 9603-9610*

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*

An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. *Yang, W., +, JIoT March 15, 2021 5000-5008*

Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M., +, JIoT Sept. 15, 2021 13939-13949*

BEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C., +, JIoT July 15, 2021 11743-11757*

BloTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P., +, JIoT July 1, 2021 10857-10872*

Certificateless Designated Verifier Anonymous Aggregate Signature Scheme for Healthcare Wireless Sensor Networks. *Deng, L., +, JIoT June 1, 2021 8897-8909*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y., +, JIoT Nov. 1, 2021 15875-15883*

Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F., +, JIoT July 15, 2021 11678-11689*

Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*

Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*

Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J., +, JIoT Aug. 15, 2021 12528-12539*

- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R., +, JIoT April 15, 2021 6425-6436*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C., +, JIoT Sept. 15, 2021 14287-14298*
- Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P., +, JIoT July 1, 2021 10963-10972*
- Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S., +, JIoT July 15, 2021 11717-11731*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*
- Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System. *Li, C., +, JIoT May 1, 2021 7192-7202*
- HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. *Rashid, N., +, JIoT Jan. 15, 2021 860-868*
- Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M., +, JIoT April 15, 2021 6454-6468*
- Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities. *Bhuiyan, M.N., +, JIoT July 1, 2021 10474-10498*
- IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J., +, JIoT Aug. 1, 2021 11983-12003*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R., +, JIoT June 1, 2021 8949-8963*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H., +, JIoT June 15, 2021 10117-10130*
- Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T., +, JIoT Feb. 1, 2021 1533-1543*
- Recent Advances in the Internet-of-Medical-Things (IoMT) Systems Security. *Ghubaish, A., +, JIoT June 1, 2021 8707-8718*
- RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X., +, JIoT Aug. 15, 2021 12892-12901*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeiabgha, F., +, JIoT May 15, 2021 8056-8063*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*
- ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications. *Abdel-Basset, M., +, JIoT March 15, 2021 4969-4979*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H., +, JIoT June 15, 2021 9664-9671*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M., +, JIoT May 1, 2021 7600-7609*
- Heart**
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y., +, JIoT Dec. 1, 2021 16921-16932*
- Heart beat**
- A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J., +, JIoT Nov. 1, 2021 15807-15817*
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y., +, JIoT Dec. 1, 2021 16921-16932*
- mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F., +, JIoT Nov. 15, 2021 16623-16636*
- Heart rate variability**
- A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J., +, JIoT Nov. 1, 2021 15807-15817*
- mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F., +, JIoT Nov. 15, 2021 16623-16636*
- Helicopters**
- Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y., +, JIoT Feb. 1, 2021 1716-1727*
- Heuristic algorithms**
- A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y., +, JIoT Dec. 1, 2021 17071-17089*
- Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A., +, JIoT Dec. 15, 2021 17395-17402*
- Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H., +, JIoT Dec. 1, 2021 16972-16983*
- sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q., +, JIoT Dec. 1, 2021 16835-16844*
- Heuristic programming**
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Hidden Markov models**
- A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S., +, JIoT Oct. 15, 2021 15620-15627*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D., +, JIoT Jan. 1, 2021 585-595*
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C., +, JIoT Dec. 15, 2021 17308-17319*
- Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z., +, JIoT Dec. 1, 2021 17000-17013*
- Higher order statistics**
- Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D., +, JIoT June 1, 2021 9330-9343*
- Holography**
- Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A., +, JIoT Oct. 1, 2021 14719-14730*
- Home automation**
- Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K., +, JIoT May 15, 2021 8343-8355*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y., +, JIoT Feb. 15, 2021 2736-2750*
- G2F: A Secure User Authentication for Rapid Smart Home IoT Management. *Luo, H., +, JIoT July 1, 2021 10884-10895*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y., +, JIoT Feb. 1, 2021 1817-1829*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y., +, JIoT March 1, 2021 3500-3511*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A., +, JIoT April 1, 2021 5185-5193*
- Home computing**
- ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W., +, JIoT June 15, 2021 9622-9633*
- Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D., +, JIoT July 15, 2021 11193-11207*
- Hospitals**
- An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z., +, JIoT Dec. 1, 2021 16779-16786*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*

Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H.*, +, *JIoT Nov. 1, 2021 15776-15784*

Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R.*, +, *JIoT April 15, 2021 6425-6436*

MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A.*, +, *JIoT Nov. 1, 2021 15762-15775*

Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H.*, +, *JIoT Nov. 1, 2021 15919-15928*

Human computer interaction

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D.*, +, *JIoT Sept. 1, 2021 13291-13305*

A Human–Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment. *Yuan, Y.*, +, *JIoT Oct. 15, 2021 15292-15302*

Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K.*, +, *JIoT May 15, 2021 8343-8355*

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H.*, +, *JIoT Oct. 1, 2021 14658-14671*

Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R.*, +, *JIoT Oct. 15, 2021 15396-15406*

Federated Learning Meets Human Emotions: A Decentralized Framework for Human–Computer Interaction for IoT Applications. *Chhikara, P.*, +, *JIoT April 15, 2021 6949-6962*

Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X.*, +, *JIoT Feb. 1, 2021 1373-1387*

Incentivizing Platform–User Interactions for Crowdsensing. *Xiang, C.*, +, *JIoT May 15, 2021 8314-8327*

Social Interaction and Information Diffusion in Social Internet of Things: Dynamics, Cloud-Edge, Traceability. *Yi, Y.*, +, *JIoT Feb. 15, 2021 2177-2192*

Human factors

ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*

Humidity

Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*

Humidity sensors

A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A.*, +, *JIoT Nov. 1, 2021 15796-15806*

HVAC

Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A.*, +, *JIoT April 15, 2021 7089-7100*

Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H.*, +, *JIoT Dec. 1, 2021 17100-17110*

Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*

Hybrid power systems

Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*

Hydrogen

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

Hydrological techniques

Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*

Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*

Hydrophones

Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*

Hypermedia

Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y.*, +, *JIoT March 1, 2021 3554-3566*

Hyperspectral imaging

A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021 12540-12549*

I

IEC standards

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

IEEE standards

Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A.*, +, *JIoT Dec. 15, 2021 17395-17402*

Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z.*, +, *JIoT April 15, 2021 6608-6623*

Image classification

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y.*, +, *JIoT April 15, 2021 6337-6347*

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L.*, +, *JIoT July 15, 2021 11357-11367*

Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L.*, +, *JIoT Feb. 15, 2021 3014-3026*

Combining Pose Invariant and Discriminative Features for Vehicle Reidentification. *Sheng, H.*, +, *JIoT March 1, 2021 3189-3200*

Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X.*, +, *JIoT May 1, 2021 7466-7475*

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P.*, +, *JIoT March 15, 2021 4448-4460*

Deep Siamese Cross-Residual Learning for Robust Visual Tracking. *Wu, F.*, +, *JIoT Oct. 15, 2021 15216-15227*

Deep-Learning-Enabled Security Issues in the Internet of Things. *Lv, Z.*, +, *JIoT June 15, 2021 9531-9538*

DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C.*, +, *JIoT April 1, 2021 5669-5681*

Dynamic-Fusion-Based Federated Learning for COVID-19 Detection. *Zhang, W.*, +, *JIoT Nov. 1, 2021 15884-15891*

Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J.*, +, *JIoT Aug. 1, 2021 12350-12359*

Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S.*, +, *JIoT Oct. 15, 2021 15170-15179*

mmEye: Super-Resolution Millimeter Wave Imaging. *Zhang, F.*, +, *JIoT April 15, 2021 6995-7008*

Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T.*, +, *JIoT Feb. 1, 2021 1533-1543*

Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*

TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M.*, +, *JIoT July 1, 2021 10336-10346*

Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*

Image coding

Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*

MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*

Image color analysis

Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S., +, JIoT Oct. 15, 2021 15170-15179*

Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P., +, JIoT Dec. 15, 2021 17557-17567*

Image denoising

Deep-Learning-Enabled Security Issues in the Internet of Things. *Lv, Z., +, JIoT June 15, 2021 9531-9538*

Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H., +, JIoT March 1, 2021 3180-3188*

Image edge detection

A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J., +, JIoT Nov. 1, 2021 15807-15817*

An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A., +, JIoT Nov. 1, 2021 15847-15854*

Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A., +, JIoT Nov. 1, 2021 15652-15662*

Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G., +, JIoT Dec. 1, 2021 16894-16901*

I-VISE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y., +, JIoT Nov. 1, 2021 16181-16190*

Image fusion

Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O., +, JIoT Feb. 15, 2021 2540-2557*

CoFF: Cooperative Spatial Feature Fusion for 3-D Object Detection on Autonomous Vehicles. *Guo, J., +, JIoT July 15, 2021 11078-11087*

Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R., +, JIoT Feb. 15, 2021 2517-2539*

LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z., +, JIoT April 1, 2021 6012-6023*

Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T., +, JIoT Feb. 1, 2021 1533-1543*

Image matching

Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras. *Lu, C., +, JIoT March 15, 2021 4931-4943*

Image motion analysis

HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. *Rashid, N., +, JIoT Jan. 15, 2021 860-868*

Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A., +, JIoT Oct. 1, 2021 14719-14730*

LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z., +, JIoT April 1, 2021 6012-6023*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*

Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T., +, JIoT Feb. 1, 2021 1533-1543*

Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N., +, JIoT March 15, 2021 4711-4722*

Image processing

Chaotic Deep Network for Mobile D2D Communication. *Li, L., +, JIoT May 15, 2021 8078-8096*

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*

Image recognition

A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z., +, JIoT Aug. 15, 2021 12540-12549*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S., +, JIoT Sept. 1, 2021 13251-13265*

Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T., +, JIoT Feb. 1, 2021 1533-1543*

Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P., +, JIoT March 1, 2021 3287-3299*

Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras. *Lu, C., +, JIoT March 15, 2021 4931-4943*

Image reconstruction

DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y., +, JIoT Feb. 1, 2021 1504-1518*

Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A., +, JIoT Oct. 1, 2021 14719-14730*

Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M., +, JIoT Feb. 1, 2021 1662-1673*

MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P., +, JIoT May 1, 2021 7303-7315*

Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S., +, JIoT April 1, 2021 5607-5618*

Image representation

Combining Pose Invariant and Discriminative Features for Vehicle Reidentification. *Sheng, H., +, JIoT March 1, 2021 3189-3200*

Deep Siamese Cross-Residual Learning for Robust Visual Tracking. *Wu, F., +, JIoT Oct. 15, 2021 15216-15227*

Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M., +, JIoT Oct. 15, 2021 15059-15069*

Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S., +, JIoT Oct. 15, 2021 15170-15179*

Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z., +, JIoT May 1, 2021 7279-7287*

Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S., +, JIoT April 1, 2021 5607-5618*

Image resolution

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D., +, JIoT Sept. 1, 2021 13291-13305*

mmEye: Super-Resolution Millimeter Wave Imaging. *Zhang, F., +, JIoT April 15, 2021 6995-7008*

Image restoration

DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y., +, JIoT Feb. 1, 2021 1504-1518*

Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X., +, JIoT Nov. 1, 2021 15929-15938*

Image sampling

Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S., +, JIoT April 1, 2021 5607-5618*

Image segmentation

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*

DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C., +, JIoT April 1, 2021 5669-5681*

EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y., +, JIoT Aug. 15, 2021 12734-12747*

EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*

Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D., +, JIoT July 15, 2021 11193-11207*

Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*

Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y., +, JIoT Dec. 1, 2021 16770-16778*

Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C., +, JIoT June 15, 2021 9697-9705*

Image sensors

Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data. *Khan, N., +, JIoT Jan. 1, 2021 596-609*

Image sequences

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

Confused-Modulo-Projection-Based Somewhat Homomorphic Encryption—Cryptosystem, Library, and Applications on Secure Smart Cities. *Jin, X., +, JIoT April 15, 2021 6324-6336*

Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R., +, JIoT Oct. 15, 2021 15396-15406*

Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*

Image texture

An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y., +, JIoT April 15, 2021 6789-6799*

Impedance

E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y., +, JIoT Nov. 15, 2021 16486-16497*

Impulse noise

Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*

Incentive schemes

A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y., +, JIoT April 1, 2021 6089-6100*

Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J., +, JIoT Oct. 1, 2021 14971-14984*

Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*

Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. *Wu, M., +, JIoT July 1, 2021 10639-10651*

Incentivizing Platform–User Interactions for Crowdsensing. *Xiang, C., +, JIoT May 15, 2021 8314-8327*

Indexes

Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q., +, JIoT Nov. 1, 2021 15953-15964*

Indoor communication

A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y., +, JIoT June 1, 2021 9359-9372*

Data and Knowledge Twin Driven Integration for Large-Scale Device-Free Localization. *Zhang, J., +, JIoT Jan. 1, 2021 320-331*

Indoor Fine Particulate Matter Monitoring in a Large Area Using Bidirectional Multihop VLC. *Shakil Sejan, M.A., +, JIoT May 1, 2021 7214-7228*

Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K., +, JIoT Oct. 1, 2021 14810-14821*

Indoor environment

Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K., +, JIoT June 1, 2021 9257-9267*

Integrated Multiple Kernel Learning for Device-Free WiFi Localization in Cluttered Environments Using Spatiotemporal Information. *Zhang, J., +, JIoT March 15, 2021 4749-4761*

Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K., +, JIoT Dec. 1, 2021 17111-17119*

Indoor navigation

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*

A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*

A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm. *Li, A., +, JIoT Jan. 1, 2021 187-196*

Comprehensive Analysis on Least-Squares Lateralization for Indoor Positioning Systems. *Cengiz, K., JIoT Feb. 15, 2021 2842-2856*

CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z., +, JIoT March 1, 2021 3422-3437*

Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K., +, JIoT June 15, 2021 9753-9762*

GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. *Zhao, Y., +, JIoT Jan. 1, 2021 393-406*

Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach. *Yang, J., +, JIoT July 1, 2021 10693-10705*

Indoor radio

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*

A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*

A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm. *Li, A., +, JIoT Jan. 1, 2021 187-196*

A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem. *Sharma, R., +, JIoT Sept. 1, 2021 13439-13448*

A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y., +, JIoT June 1, 2021 9359-9372*

A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning. *Zhang, W., +, JIoT Feb. 1, 2021 1406-1416*

Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A., +, JIoT July 1, 2021 10665-10677*

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A., +, JIoT Oct. 1, 2021 14607-14622*

Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices. *Choi, J., +, JIoT Jan. 1, 2021 541-554*

CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z., +, JIoT March 1, 2021 3422-3437*

Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S., +, JIoT Oct. 15, 2021 15628-15638*

Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F., +, JIoT March 15, 2021 4228-4249*

Distributed and Collaborative Localization for Swarming UAVs. *Chen, R., +, JIoT March 15, 2021 5062-5074*

Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G., +, JIoT Sept. 1, 2021 13774-13788*

Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y., +, JIoT Jan. 15, 2021 1183-1196*

Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K., +, JIoT Oct. 1, 2021 14589-14606*

Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J., +, JIoT Oct. 1, 2021 14623-14637*

EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls. *Liu, M., +, JIoT April 1, 2021 5585-5598*

GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. *Zhao, Y., +, JIoT Jan. 1, 2021 393-406*

Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach. *Wang, X., +, JIoT March 15, 2021 4498-4513*

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*

Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y., +, JIoT Feb. 1, 2021 1544-1556*

Massive MIMO for High-Accuracy Target Localization and Tracking. *Zeng, X., +, JIoT June 15, 2021 10131-10145*

Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M., +, JIoT Aug. 1, 2021 12375-12383*

SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*

Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrafilian, O., +, JIoT June 15, 2021 9894-9904*

Understanding and Modeling of WiFi Signal-Based Indoor Privacy Protection. *Zhang, W.*, +, *JIoT Feb. 1, 2021 2000-2010*

Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malarski, K.M.*, +, *JIoT April 15, 2021 6746-6756*

Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach. *Yang, J.*, +, *JIoT July 1, 2021 10693-10705*

Inductive power transmission

Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*

Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*

Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*

Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. *Lee, C.*, +, *JIoT May 15, 2021 8291-8303*

Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y.*, +, *JIoT Sept. 1, 2021 13640-13651*

Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*

Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*

On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*

Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*

Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M.*, +, *JIoT Aug. 1, 2021 11834-11846*

Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M.*, +, *JIoT May 1, 2021 7600-7609*

You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1197-1210*

Industrial control

False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D.*, +, *JIoT Jan. 1, 2021 585-595*

Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*

Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*

PLCDefender: Improving Remote Attestation Techniques for PLCs Using Physical Model. *Salehi, M.*, +, *JIoT May 1, 2021 7372-7379*

The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D.*, +, *JIoT Dec. 15, 2021 17525-17540*

Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N.*, +, *JIoT Sept. 1, 2021 13712-13722*

Industrial economics

Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*

Industrial Internet of Things

Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*

Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G.*, +, *JIoT Dec. 15, 2021 17747-17761*

Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*

Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*

HoneyPot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W.*, +, *JIoT Dec. 15, 2021 17372-17381*

Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L.*, +, *JIoT Dec. 1, 2021 17172-17185*

Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F.*, +, *JIoT Nov. 15, 2021 16653-16665*

Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H.*, +, *JIoT Dec. 15, 2021 17678-17690*

The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D.*, +, *JIoT Dec. 15, 2021 17525-17540*

Industrial plants

A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R.*, +, *JIoT March 15, 2021 4339-4352*

RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*

Industrial robots

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*

Industries

Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J.*, +, *JIoT Nov. 1, 2021 15663-15671*

Inertial navigation

A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y.*, +, *JIoT June 1, 2021 9359-9372*

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*

Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y.*, +, *JIoT Feb. 1, 2021 1716-1727*

Infectious diseases

Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q.*, +, *JIoT Nov. 15, 2021 16473-16485*

Inference mechanisms

Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*

Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*

Keeping Cell Selection Model Up-to-Date to Adapt to Time-Dependent Environment in Sparse Mobile Crowdsensing. *Han, L.*, +, *JIoT Sept. 15, 2021 13914-13925*

Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H.*, +, *JIoT March 1, 2021 3180-3188*

Utility-Theory-Based Optimal Resource Consumption for Inference in IoT Systems. *Geng, B.*, +, *JIoT Aug. 1, 2021 12279-12288*

Information age

Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S.*, +, *JIoT Oct. 1, 2021 14431-14434*

Information analysis

Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. *Wen, P.*, +, *JIoT June 1, 2021 9045-9058*

Information dissemination

BTMP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z.*, +, *JIoT April 1, 2021 5386-5407*

Information exchange

Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X.*, +, *JIoT Dec. 15, 2021 17802-17816*

Information management

ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G., +, JIoT March 1, 2021 3120-3129*

Information retrieval

Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Yunan, M., +, JIoT April 1, 2021 5953-5972*

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M., +, JIoT Feb. 15, 2021 2615-2626*

SearchBC: A Blockchain-Based PEKS Framework for IoT Services. *Jiang, P., +, JIoT March 15, 2021 5031-5044*

Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X., +, JIoT Aug. 15, 2021 12902-12918*

Information technology

Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y., +, JIoT March 15, 2021 4250-4274*

Information theory

On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T., +, JIoT Oct. 15, 2021 15334-15348*

Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L., +, JIoT July 15, 2021 11329-11344*

Infrared detectors

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S., +, JIoT Jan. 15, 2021 1154-1168*

A Nonintrusive Elderly Home Monitoring System. *Fang, L., +, JIoT Feb. 15, 2021 2603-2614*

Infrared imaging

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*

Innovation management

Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*

Inspection

RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P., +, JIoT March 1, 2021 3512-3523*

Insulators

A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C., +, JIoT May 1, 2021 7510-7520*

Insurance

A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y., +, JIoT April 1, 2021 6089-6100*

Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R., +, JIoT May 1, 2021 7360-7371*

Scalable Decentralized Privacy-Preserving Usage-Based Insurance for Vehicles. *Qi, H., +, JIoT March 15, 2021 4472-4484*

Integer programming

A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J., +, JIoT June 15, 2021 9683-9696*

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T., +, JIoT Oct. 15, 2021 15486-15499*

A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X., +, JIoT Aug. 1, 2021 12329-12338*

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S., +, JIoT Jan. 1, 2021 572-584*

AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X., +, JIoT May 15, 2021 8464-8473*

Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J., +, JIoT March 1, 2021 3268-3275*

Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K., +, JIoT Feb. 1, 2021 1347-1357*

Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*

Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S., +, JIoT June 15, 2021 9920-9933*

Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D., +, JIoT Feb. 15, 2021 2959-2975*

Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X., +, JIoT Aug. 15, 2021 13115-13125*

Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. *Chiang, Y., +, JIoT Oct. 1, 2021 14435-14446*

Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C., +, JIoT Feb. 15, 2021 2802-2813*

Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S., +, JIoT Feb. 15, 2021 2135-2149*

Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J., +, JIoT March 1, 2021 3462-3475*

Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F., +, JIoT Sept. 15, 2021 14156-14170*

Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J., +, JIoT Feb. 1, 2021 1557-1571*

Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y., +, JIoT May 1, 2021 7126-7139*

Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z., +, JIoT Sept. 1, 2021 13624-13639*

Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y., +, JIoT Aug. 1, 2021 12266-12278*

Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W., +, JIoT Aug. 1, 2021 12398-12409*

Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*

Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C., +, JIoT Oct. 15, 2021 15553-15567*

Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing. *Zhu, X., +, JIoT Oct. 15, 2021 15582-15595*

Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C., JIoT Jan. 15, 2021 941-950*

Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A., +, JIoT April 1, 2021 5185-5193*

Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*

TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J., +, JIoT Jan. 15, 2021 1001-1015*

Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B., +, JIoT Feb. 15, 2021 2943-2958*

UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R., +, JIoT Sept. 1, 2021 13222-13236*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K., +, JIoT June 15, 2021 10103-10116*

User-Centric Computation Offloading for Edge Computing. *Deng, X., +, JIoT Aug. 15, 2021 12559-12568*

Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M., +, JIoT Aug. 1, 2021 11834-11846*

Integrated circuit design

Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K., +, JIoT March 15, 2021 4642-4656*

Integrated circuits

The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D., +, JIoT Dec. 15, 2021 17525-17540*

Integrated design

Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*

Intelligent control

Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X.*, +, *JIoT Oct. 15, 2021 15180-15190*

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*

Intelligent manufacturing systems

Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*

Intelligent robots

Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y.*, +, *JIoT Sept. 15, 2021 14039-14050*

Intelligent sensors

Federated Sensing: Edge-Cloud Elastic Collaborative Learning for Intelligent Sensing. *Gao, Y.*, +, *JIoT July 15, 2021 11100-11111*

A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A.*, +, *JIoT Nov. 1, 2021 15796-15806*

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*

Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M.*, +, *JIoT Dec. 1, 2021 16718-16722*

iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils. *Li, K.*, +, *JIoT April 15, 2021 6637-6648*

Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*

Intelligent transportation systems

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L.*, +, *JIoT Feb. 1, 2021 2066-2077*

A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*

Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B.*, +, *JIoT March 15, 2021 4157-4185*

Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J.*, +, *JIoT Jan. 15, 2021 1140-1153*

DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D.*, +, *JIoT July 15, 2021 11666-11677*

H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*

Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A.*, +, *JIoT Nov. 15, 2021 16395-16405*

Societal Intelligence for Safer and Smarter Transportation. *Cheng, X.*, +, *JIoT June 1, 2021 9109-9121*

Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*

Interactive systems

A Human-Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment. *Yuan, Y.*, +, *JIoT Oct. 15, 2021 15292-15302*

Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y.*, +, *JIoT April 1, 2021 5619-5631*

Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K.*, +, *JIoT Aug. 15, 2021 12623-12637*

Interference

A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*

A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S.*, +, *JIoT Dec. 1, 2021 17186-17198*

mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Nov. 15, 2021 16623-16636*

Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y.*, +, *JIoT Nov. 1, 2021 16023-16034*

Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*

Interference (signal)

Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*

Interference suppression

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D.*, +, *JIoT Sept. 1, 2021 13291-13305*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H.*, +, *JIoT July 15, 2021 11208-11218*

Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*

Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X.*, +, *JIoT Aug. 1, 2021 12093-12105*

Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H.*, +, *JIoT May 1, 2021 7437-7449*

Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*

Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*

Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L.*, +, *JIoT April 1, 2021 5129-5140*

Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021 3904-3914*

Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*

Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*

Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*

Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G.*, +, *JIoT July 1, 2021 10714-10730*

Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*

Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Feb. 1, 2021 1294-1307*

Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. *Liu, W.*, +, *JIoT March 15, 2021 4681-4696*

Interleaved codes

Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*

Internet

Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*

A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V.*, +, *JIoT Feb. 15, 2021 2409-2418*

- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O.*, +, *JIoT June 15, 2021 9463-9472*
- A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V.*, +, *JIoT July 1, 2021 10583-10595*
- A Human-Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment. *Yuan, Y.*, +, *JIoT Oct. 15, 2021 15292-15302*
- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*
- A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K.*, +, *JIoT April 15, 2021 6840-6852*
- A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z.*, +, *JIoT Aug. 15, 2021 12658-12668*
- A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O.*, +, *JIoT March 15, 2021 4081-4104*
- A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*
- A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *Ali, B.*, +, *JIoT March 1, 2021 3822-3830*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z.*, +, *JIoT Sept. 15, 2021 14322-14337*
- Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L.*, +, *JIoT Jan. 1, 2021 626-635*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*
- Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W.*, +, *JIoT April 1, 2021 5926-5937*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T.*, +, *JIoT July 1, 2021 10766-10778*
- Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S.*, +, *JIoT Oct. 1, 2021 14746-14755*
- Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J.*, +, *JIoT March 1, 2021 3268-3275*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z.*, +, *JIoT April 15, 2021 6733-6745*
- CCIC-WSN: An Architecture for Single-Channel Cluster-Based Information-Centric Wireless Sensor Networks. *Rehman, M.A.U.*, +, *JIoT May 1, 2021 7661-7675*
- Centralized and Distributed Age of Information Minimization With Nonlinear Aging Functions in the Internet of Things. *Park, T.*, +, *JIoT May 15, 2021 8437-8455*
- ComPath: User Interest Mining in Heterogeneous Signed Social Networks for Internet of People. *Dhelim, S.*, +, *JIoT April 15, 2021 7024-7035*
- Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*
- Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M.*, +, *JIoT April 1, 2021 5953-5972*
- DQN-Based Optimization Framework for Secure Sharded Blockchain Systems. *Yun, J.*, +, *JIoT Jan. 15, 2021 708-722*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y.*, +, *JIoT May 1, 2021 7450-7465*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H.*, +, *JIoT Oct. 1, 2021 14787-14796*
- Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y.*, +, *JIoT March 1, 2021 3554-3566*
- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R.*, +, *JIoT April 15, 2021 6425-6436*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P.*, +, *JIoT July 1, 2021 10963-10972*
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J.*, +, *JIoT May 15, 2021 7789-7817*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X.*, +, *JIoT Nov. 15, 2021 16535-16547*
- ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E.*, +, *JIoT Sept. 15, 2021 14308-14321*
- From Centralized Management to Edge Collaboration: A Privacy-Preserving Task Assignment Framework for Mobile Crowdsensing. *Wu, D.*, +, *JIoT March 15, 2021 4579-4589*
- From IoT to Future Cyber-Enabled Internet of X and Its Fundamental Issues. *Ning, H.*, +, *JIoT April 1, 2021 6077-6088*
- Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*
- Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L.*, +, *JIoT April 1, 2021 5574-5584*
- Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A.*, +, *JIoT April 15, 2021 7089-7100*
- IoT Service Slicing and Task Offloading for Edge Computing. *Hwang, J.*, +, *JIoT July 15, 2021 11526-11547*
- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P.*, +, *JIoT March 15, 2021 4830-4840*
- IoTcOp: A Blockchain-Based Monitoring Framework for Detection and Isolation of Malicious Devices in Internet-of-Things Systems. *Seshadri, S.S.*, +, *JIoT March 1, 2021 3346-3359*
- ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G.*, +, *JIoT March 1, 2021 3120-3129*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M.*, +, *JIoT Jan. 1, 2021 407-417*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q.*, +, *JIoT June 15, 2021 9995-10009*

- Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T., +, JIoT Feb. 1, 2021 1687-1701*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A., +, JIoT March 1, 2021 3410-3421*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*
- Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M., +, JIoT July 1, 2021 10745-10754*
- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D., +, JIoT Sept. 1, 2021 13367-13383*
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E., +, JIoT Jan. 1, 2021 309-319*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N., +, JIoT March 1, 2021 3255-3267*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. *Farhat, J., +, JIoT Oct. 1, 2021 14672-14682*
- Person Identification Using Structural Vibrations via Footfalls for Smart Home Applications. *Mukhopadhyay, B., +, JIoT Sept. 1, 2021 13384-13396*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J., +, JIoT March 1, 2021 3310-3322*
- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J., +, JIoT March 1, 2021 3088-3098*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M., +, JIoT March 1, 2021 3619-3635*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A., +, JIoT March 1, 2021 3057-3065*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y., +, JIoT March 1, 2021 3500-3511*
- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R., +, JIoT April 15, 2021 6214-6221*
- SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks. *Yang, N., +, JIoT Aug. 1, 2021 12119-12136*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L., +, JIoT March 1, 2021 3743-3757*
- Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X., +, JIoT April 15, 2021 6187-6196*
- User-Centric Computation Offloading for Edge Computing. *Deng, X., +, JIoT Aug. 15, 2021 12559-12568*
- WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans. *Jun, H., +, JIoT July 15, 2021 11690-11704*
- Internet of Things**
- 3GPP Standardized 5G Channel Model for IIoT Scenarios: A Survey. *Jiang, T., +, JIoT June 1, 2021 8799-8815*
- 5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X., +, JIoT Sept. 15, 2021 14399-14417*
- 5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J., +, JIoT Aug. 1, 2021 12467-12475*
- 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*
- 6G-Enabled IoT Home Environment Control Using Fuzzy Rules. *Wozniak, M., +, JIoT April 1, 2021 5442-5452*
- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F., +, JIoT April 1, 2021 5321-5331*
- mmWrite*: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D., +, JIoT Sept. 1, 2021 13291-13305*
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T., +, JIoT June 15, 2021 9473-9483*
- A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*
- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H., +, JIoT Feb. 15, 2021 2124-2134*
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J., +, JIoT Feb. 1, 2021 2040-2050*
- A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X., +, JIoT Feb. 15, 2021 2431-2443*
- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C., +, JIoT May 1, 2021 7510-7520*
- A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G., +, JIoT Aug. 15, 2021 12518-12527*
- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H., +, JIoT Nov. 15, 2021 16349-16358*
- A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. *Muzammal, S.M., +, JIoT March 15, 2021 4186-4210*
- A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A., +, JIoT March 1, 2021 3885-3903*
- A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs. *Zhu, Z., +, JIoT March 1, 2021 3831-3850*
- A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*
- A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol. *Xiang, Z., +, JIoT April 1, 2021 5697-5709*
- A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain. *Zhang, W., +, JIoT Feb. 15, 2021 2354-2363*
- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O., +, JIoT June 15, 2021 9463-9472*
- A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*
- A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T., +, JIoT May 1, 2021 7423-7436*
- A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L., +, JIoT Oct. 15, 2021 15249-15258*
- A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J., +, JIoT May 1, 2021 7521-7530*
- A Genetic Algorithm Based on Auxiliary-Individual-Directed Crossover for Internet-of-Things Applications. *Fan, Q., +, JIoT April 1, 2021 5518-5530*
- A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D., +, JIoT March 1, 2021 3587-3604*
- A Human-Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment. *Yuan, Y., +, JIoT Oct. 15, 2021 15292-15302*
- A Joint Optimization Scheme for Hybrid MAC Layer in LEO Satellite Supported IoT. *Wang, C., +, JIoT Aug. 1, 2021 11822-11833*
- A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y., +, JIoT Dec. 1, 2021 17071-17089*
- A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M., +, JIoT Nov. 1, 2021 15694-15703*
- A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y., +, JIoT Dec. 15, 2021 17449-17459*
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D., +, JIoT Aug. 1, 2021 12137-12149*

- A Low-Cost Two-Tier Fog Computing Testbed for Streaming IoT-Based Applications. *Nguyen, S.*, +, *JIoT April 15, 2021 6928-6939*
- A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*
- A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R.*, +, *JIoT March 15, 2021 4339-4352*
- A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature. *Hagos, D.H.*, +, *JIoT March 1, 2021 3534-3553*
- A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z.*, +, *JIoT Jan. 1, 2021 418-427*
- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G.*, +, *JIoT Jan. 15, 2021 684-694*
- A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J.*, +, *JIoT June 15, 2021 9683-9696*
- A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. *Cai, X.*, +, *JIoT June 15, 2021 9645-9653*
- A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*
- A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*
- A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S.*, +, *JIoT May 15, 2021 8411-8422*
- A New Preventive Routing Method Based on Clustering and Location Prediction in the Mobile Internet of Things. *Sadrishojaei, M.*, +, *JIoT July 1, 2021 10652-10664*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*
- A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P.*, +, *JIoT July 15, 2021 11476-11486*
- A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*
- A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*
- A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*
- A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*
- A Novel Semi-Supervised Learning Approach to Pedestrian Reidentification. *Han, H.*, +, *JIoT Feb. 15, 2021 3042-3052*
- A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M.*, +, *JIoT Aug. 1, 2021 11793-11806*
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sum, J.*, +, *JIoT June 15, 2021 10034-10046*
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y.*, +, *JIoT Sept. 15, 2021 13958-13974*
- A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N.*, +, *JIoT Jan. 15, 2021 1123-1139*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*
- A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S.*, +, *JIoT Oct. 15, 2021 15620-15627*
- A Quantitative Study of DDoS and E-DDoS Attacks on WiFi Smart Home Devices. *Tushir, B.*, +, *JIoT April 15, 2021 6282-6292*
- A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- A Review of Internet of Things—Resource Allocation. *Li, X.*, +, *JIoT June 1, 2021 8657-8666*
- A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M.*, +, *JIoT June 15, 2021 9611-9621*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*
- A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*
- A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K.*, +, *JIoT April 15, 2021 6840-6852*
- A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things. *Khan, F.*, +, *JIoT Oct. 1, 2021 14835-14844*
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- A Social-Relationships-Based Service Recommendation System for SIoT Devices. *Khelloufi, A.*, +, *JIoT Feb. 1, 2021 1859-1870*
- A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z.*, +, *JIoT Aug. 15, 2021 12658-12668*
- A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*
- A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. *Alwarafy, A.*, +, *JIoT March 15, 2021 4004-4022*
- A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. *Hassija, V.*, +, *JIoT April 15, 2021 6222-6246*
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*
- A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H.*, +, *JIoT April 1, 2021 6002-6011*
- A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D.*, +, *JIoT April 1, 2021 5510-5517*
- A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*
- A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q.*, +, *JIoT Dec. 1, 2021 17014-17028*
- A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *Ali, B.*, +, *JIoT March 1, 2021 3822-3830*
- A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*
- Accurate Interpretation of the Online Learning Model for 6G-Enabled Internet of Things. *Huang, J.*, +, *JIoT Oct. 15, 2021 15228-15239*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z.*, +, *JIoT Sept. 15, 2021 14322-14337*
- Achieving Democracy in Edge Intelligence: A Fog-Based Collaborative Learning Scheme. *Zhang, T.*, +, *JIoT Feb. 15, 2021 2751-2761*
- Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*
- Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A.*, +, *JIoT July 1, 2021 10665-10677*

- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M., JIoT Feb. 15, 2021 2585-2602*
- Addressing Security and Privacy Issues of IoT Using Blockchain Technology. *Mohanta, B.K., +, JIoT Jan. 15, 2021 881-888*
- ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks. *Sudheera, K.L.K., +, JIoT April 15, 2021 6591-6607*
- Adversarial Attacks Against Network Intrusion Detection in IoT Systems. *Qiu, H., +, JIoT July 1, 2021 10327-10335*
- Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A., +, JIoT June 15, 2021 9603-9610*
- Age of Information and Performance Analysis for UAV-Aided IoT Systems. *Han, R., +, JIoT Oct. 1, 2021 14447-14457*
- Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. *Li, R., +, JIoT Oct. 1, 2021 14471-14484*
- Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z., +, JIoT Feb. 15, 2021 2826-2841*
- Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A., +, JIoT Nov. 15, 2021 16548-16558*
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likers*. *Pal, R., +, JIoT May 1, 2021 7360-7371*
- AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K., +, JIoT March 15, 2021 5023-5030*
- Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L., +, JIoT Dec. 1, 2021 16787-16800*
- AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K., +, JIoT April 1, 2021 5264-5273*
- ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W., +, JIoT June 15, 2021 9622-9633*
- Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log. *Figueroa-Lorenzo, S., +, JIoT Sept. 1, 2021 13306-13315*
- An Accurate and Efficient 1-D Barcode Detector for Medium of Deployment in IoT Systems. *Sharif, A., +, JIoT Jan. 15, 2021 889-900*
- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H., +, JIoT Nov. 1, 2021 15829-15838*
- An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E., +, JIoT June 1, 2021 9206-9218*
- An Adversarial Examples Identification Method for Time Series in Internet-of-Things System. *Jiang, H., +, JIoT June 15, 2021 9495-9510*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*
- An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A., +, JIoT Oct. 1, 2021 14607-14622*
- An Approach to the Unified Management of Heterogeneous IoT Environments. *Armando, N., +, JIoT April 15, 2021 6916-6927*
- An Architecture for IoT-Enabled Smart Transportation Security System: A Geospatial Approach. *Zhang, J., +, JIoT April 15, 2021 6205-6213*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S., +, JIoT April 1, 2021 5285-5297*
- An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P., +, JIoT Aug. 15, 2021 12597-12609*
- An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T., +, JIoT March 1, 2021 3170-3179*
- An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. *Mahyoub, M., +, JIoT May 1, 2021 7152-7169*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M., +, JIoT Sept. 1, 2021 13414-13424*
- An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J., +, JIoT Oct. 15, 2021 15372-15381*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z., +, JIoT Oct. 1, 2021 14756-14772*
- An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L., +, JIoT Dec. 1, 2021 17120-17130*
- An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D., +, JIoT March 15, 2021 4816-4829*
- An Evolutionary Study of IoT Malware. *Wang, H., +, JIoT Oct. 15, 2021 15422-15440*
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J., +, JIoT Nov. 1, 2021 15839-15846*
- An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z., +, JIoT Jan. 15, 2021 1109-1122*
- An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y., +, JIoT Aug. 1, 2021 12231-12241*
- An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z., +, JIoT Dec. 1, 2021 16779-16786*
- An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y., +, JIoT April 15, 2021 6789-6799*
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J., +, JIoT July 1, 2021 10347-10355*
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N., +, JIoT Jan. 15, 2021 869-880*
- Analysis and Implementation for Traffic-Aware Channel Assignment and Contention Scheme in LoRa-Based IoT Networks. *Shen, L., +, JIoT July 15, 2021 11368-11383*
- Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks. *Hentati, A., +, JIoT March 15, 2021 4920-4930*
- Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis. *Xiao, Z., +, JIoT March 1, 2021 3812-3821*
- Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT. *Han, G., +, JIoT April 1, 2021 5219-5229*
- AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X., +, JIoT May 15, 2021 8464-8473*
- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*
- Application Domains, Evaluation Data Sets, and Research Challenges of IoT: A Systematic Review. *Lohiya, R., +, JIoT June 1, 2021 8774-8798*
- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A., +, JIoT May 15, 2021 7874-7888*
- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y., +, JIoT March 15, 2021 4250-4274*
- Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C., +, JIoT Dec. 1, 2021 16902-16910*
- Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z., +, JIoT June 15, 2021 9706-9716*
- ATTDC: An Active and Traceable Trust Data Collection Scheme for Industrial Security in Smart Cities. *Shen, M., +, JIoT April 15, 2021 6437-6453*
- Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S., +, JIoT Nov. 1, 2021 15990-16001*
- Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X., +, JIoT April 15, 2021 7009-7023*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S., +, JIoT Aug. 15, 2021 12947-12954*
- Automatic Generation of IoT Device Platforms With AutoLink. *Li, B., +, JIoT April 1, 2021 5893-5903*
- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A., +, JIoT Aug. 1, 2021 12242-12250*
- Autonomous IoT Device Management Systems: Structured Review and Generalized Cognitive Model. *Braten, A.E., +, JIoT March 15, 2021 4275-4290*
- Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X., +, JIoT Oct. 1, 2021 14845-14859*

- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X.*, +, *JIoT June 1, 2021 9233-9243*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H.*, +, *JIoT April 1, 2021 5230-5239*
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C.*, +, *JIoT Feb. 15, 2021 2694-2711*
- Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z.*, +, *JIoT April 1, 2021 5350-5359*
- BloTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P.*, +, *JIoT July 1, 2021 10857-10872*
- Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*
- Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y.*, +, *JIoT Nov. 1, 2021 15785-15795*
- Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W.*, +, *JIoT April 15, 2021 6305-6312*
- Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B.*, +, *JIoT March 15, 2021 4157-4185*
- Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices. *Zhang, H.*, +, *JIoT Oct. 15, 2021 15596-15607*
- Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M.*, +, *JIoT Feb. 15, 2021 2116-2123*
- Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y.*, +, *JIoT Feb. 15, 2021 2226-2237*
- Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W.*, +, *JIoT April 1, 2021 5926-5937*
- Blockchain-Based Key Management Scheme in Fog-Enabled IoT Systems. *Chen, T.*, +, *JIoT July 1, 2021 10766-10778*
- Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S.*, +, *JIoT Oct. 1, 2021 14746-14755*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning. *Mohammed, I.*, +, *JIoT April 1, 2021 5938-5952*
- Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things. *Li, Z.*, +, *JIoT Jan. 15, 2021 844-859*
- Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J.*, +, *JIoT March 1, 2021 3268-3275*
- CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y.*, +, *JIoT April 15, 2021 6893-6903*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z.*, +, *JIoT April 15, 2021 6733-6745*
- Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *Qian, K.*, +, *JIoT May 15, 2021 8343-8355*
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*
- Cascading Failures in Internet of Things: Review and Perspectives on Reliability and Resilience. *Xing, L.*, *JIoT Jan. 1, 2021 44-64*
- CCIC-WSN: An Architecture for Single-Channel Cluster-Based Information-Centric Wireless Sensor Networks. *Rehman, M.A.U.*, +, *JIoT May 1, 2021 7661-7675*
- Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J.*, +, *JIoT Nov. 15, 2021 16498-16509*
- Centralized and Distributed Age of Information Minimization With Nonlinear Aging Functions in the Internet of Things. *Park, T.*, +, *JIoT May 15, 2021 8437-8455*
- Certificate-Based Parallel Key-Insulated Aggregate Signature Against Fully Chosen Key Attacks for Industrial Internet of Things. *Hou, Y.*, +, *JIoT June 1, 2021 8935-8948*
- Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y.*, +, *JIoT Oct. 15, 2021 15407-15421*
- Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*
- Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*
- CL-ME: Efficient Certificateless Matchmaking Encryption for Internet of Things. *Chen, B.*, +, *JIoT Oct. 1, 2021 15010-15023*
- Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y.*, +, *JIoT Dec. 1, 2021 17227-17235*
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A.*, +, *JIoT Aug. 1, 2021 11860-11876*
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*
- Cloud-Edge Orchestration for the Internet of Things: Architecture and AI-Powered Data Processing. *Wu, Y.*, *JIoT Aug. 15, 2021 12792-12805*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*
- CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q.*, +, *JIoT Dec. 1, 2021 16946-16962*
- Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X.*, +, *JIoT Aug. 15, 2021 12968-12982*
- CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B.*, +, *JIoT Dec. 15, 2021 17790-17801*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*
- Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J.*, +, *JIoT Oct. 15, 2021 15096-15106*
- Collective Memory for Detecting Nonconcurrent Clones: A Localized Approach for Global Topology and Identity Tracing in IoT Networks. *Xu, J.*, +, *JIoT April 1, 2021 5762-5777*
- Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*
- Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT. *Yu, W.*, +, *JIoT May 1, 2021 7638-7648*
- ComFlex: Composable and Flexible Resource Management for the IoT. *Lee, G.*, +, *JIoT Nov. 15, 2021 16406-16417*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C.*, +, *JIoT Oct. 15, 2021 15531-15541*
- Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks. *Zhou, P.*, +, *JIoT July 1, 2021 10237-10247*
- Compacting Deep Neural Networks for Internet of Things: Methods and Applications. *Zhang, K.*, +, *JIoT Aug. 1, 2021 11935-11959*
- Comparative Performance Analysis of Lightweight Cryptography Algorithms for IoT Sensor Nodes. *Fotovvat, A.*, +, *JIoT May 15, 2021 8279-8290*
- Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms. *Mijuskovic, A.*, +, *JIoT Feb. 1, 2021 1797-1816*
- Competitive Age of Information in Dynamic IoT Networks. *Yu, D.*, +, *JIoT Oct. 15, 2021 15160-15169*
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B.*, +, *JIoT April 1, 2021 5645-5656*

- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y.*, +, *JIoT Feb. 15, 2021 2900-2909*
- Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*
- Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K.*, +, *JIoT Nov. 1, 2021 16035-16046*
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J.*, +, *JIoT Dec. 1, 2021 16801-16813*
- Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G.*, +, *JIoT Sept. 1, 2021 13723-13736*
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P.*, +, *JIoT Nov. 1, 2021 15863-15874*
- Contention Resolution in Wi-Fi 6-Enabled Internet of Things Based on Deep Learning. *Chen, C.*, +, *JIoT April 1, 2021 5309-5320*
- Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B.*, +, *JIoT April 15, 2021 6800-6814*
- Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K.*, +, *JIoT June 1, 2021 9257-9267*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*
- Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). *Li, J.*, +, *JIoT June 15, 2021 10052-10070*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y.*, +, *JIoT Feb. 15, 2021 2300-2317*
- Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F.*, +, *JIoT Dec. 1, 2021 16758-16769*
- Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R.*, +, *JIoT June 1, 2021 8964-8975*
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Corrections to *Aggregate Cyber-Risk Management in the IoT Age: Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT July 15, 2021 11773-11775*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F.*, +, *JIoT July 15, 2021 11678-11689*
- Count Estimation With a Low-Accuracy Machine Learning Model. *Sei, Y.*, +, *JIoT April 15, 2021 7079-7088*
- Covert Communication in Relay-Assisted IoT Systems. *Gao, C.*, +, *JIoT April 15, 2021 6313-6323*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y.*, +, *JIoT April 1, 2021 5973-5984*
- Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*
- Cyclic CNN: Image Classification With Multiscale and Multilocation Contexts. *Chen, X.*, +, *JIoT May 1, 2021 7466-7475*
- DFOPS: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. *Tarekegn, G.B.*, +, *JIoT March 1, 2021 3717-3729*
- DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P.*, +, *JIoT Aug. 15, 2021 12569-12577*
- Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M.*, +, *JIoT April 1, 2021 5953-5972*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W.*, +, *JIoT April 1, 2021 5374-5385*
- DDLFP: A Practical Decentralized Deep Learning Paradigm for Internet-of-Things Applications. *Wu, Y.*, +, *JIoT June 15, 2021 9740-9752*
- Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. *Moschella, M.*, +, *JIoT July 15, 2021 11112-11122*
- Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S.*, +, *JIoT Oct. 15, 2021 15628-15638*
- Deep Q-Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*
- Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y.*, +, *JIoT Dec. 1, 2021 16921-16932*
- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X.*, +, *JIoT Aug. 15, 2021 12588-12596*
- Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *Shi, Z.*, +, *JIoT March 1, 2021 3476-3489*
- DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y.*, +, *JIoT Feb. 1, 2021 1504-1518*
- DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT. *Kok, I.*, +, *JIoT Jan. 1, 2021 232-243*
- Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X.*, +, *JIoT July 1, 2021 10911-10921*
- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K.*, +, *JIoT Feb. 1, 2021 1347-1357*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH. *Wang, H.*, +, *JIoT July 1, 2021 10499-10508*
- Design and Prototype Implementation of a Blockchain-Enabled LoRa System With Edge Computing. *Hou, L.*, +, *JIoT Feb. 15, 2021 2419-2430*
- Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B.*, +, *JIoT Dec. 15, 2021 17724-17733*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- Design, Resource Management, and Evaluation of Fog Computing Systems: A Survey. *Martinez, I.*, +, *JIoT Feb. 15, 2021 2494-2516*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B.*, +, *JIoT April 1, 2021 5744-5761*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N.*, +, *JIoT June 1, 2021 9422-9435*
- Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. *Kak, A.*, +, *JIoT Feb. 1, 2021 1749-1768*

- Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J., +, JIoT May 1, 2021 7727-7744*
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*
- Developing a Security Testbed for Industrial Internet of Things. *Al-Hawawreh, M., +, JIoT April 1, 2021 5558-5573*
- Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K., +, JIoT March 15, 2021 4642-4656*
- Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N., +, JIoT Nov. 15, 2021 16452-16472*
- Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F., +, JIoT March 15, 2021 4228-4249*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments. *Tiwari, M., +, JIoT July 1, 2021 10631-10638*
- Differential Privacy for Industrial Internet of Things: Opportunities, Applications, and Challenges. *Jiang, B., +, JIoT July 1, 2021 10430-10451*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D., +, JIoT Nov. 15, 2021 16301-16312*
- Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H., +, JIoT Dec. 1, 2021 16749-16757*
- Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems. *Jia, P., +, JIoT March 15, 2021 4548-4559*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G., +, JIoT Nov. 15, 2021 16440-16451*
- Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B., +, JIoT Oct. 15, 2021 15140-15147*
- Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S., +, JIoT April 1, 2021 5850-5865*
- Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelakakis, F., +, JIoT Jan. 15, 2021 1224-1242*
- Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y., +, JIoT June 15, 2021 9594-9602*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D., +, JIoT June 1, 2021 9059-9071*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X., +, JIoT July 1, 2021 10264-10279*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z., +, JIoT April 1, 2021 5298-5308*
- Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z., +, JIoT Aug. 15, 2021 12679-12693*
- Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L., +, JIoT Feb. 15, 2021 2330-2341*
- Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus. *Yu, H., +, JIoT Nov. 1, 2021 16096-16107*
- Distributed TDMA for Mobile UWB Network Localization. *Cao, Y., +, JIoT Sept. 1, 2021 13449-13464*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W., +, JIoT April 15, 2021 6293-6304*
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V., +, JIoT May 15, 2021 8133-8144*
- Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *Mishra, S., +, JIoT July 15, 2021 11305-11319*
- DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. *Ren, X., +, JIoT Feb. 15, 2021 2775-2791*
- DQN-Based Optimization Framework for Secure Sharded Blockchain Systems. *Yun, J., +, JIoT Jan. 15, 2021 708-722*
- DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D., +, JIoT July 15, 2021 11666-11677*
- Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning. *Gu, X., +, JIoT Sept. 1, 2021 13209-13221*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T., +, JIoT March 1, 2021 3224-3241*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R., +, JIoT Jan. 1, 2021 345-356*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L., +, JIoT May 15, 2021 7938-7953*
- Dynamic Resource Optimization for Decentralized Estimation in Energy Harvesting IoT Networks. *Battiloro, C., +, JIoT May 15, 2021 8530-8542*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y., +, JIoT May 1, 2021 7450-7465*
- Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R., +, JIoT Oct. 15, 2021 15396-15406*
- EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F., +, JIoT Feb. 1, 2021 1259-1271*
- EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. *Yang, S., +, JIoT June 15, 2021 9580-9593*
- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*
- Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y., +, JIoT March 1, 2021 3554-3566*
- Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D., +, JIoT Feb. 15, 2021 2959-2975*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*
- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*
- EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing. *Wu, H., +, JIoT Feb. 15, 2021 2163-2176*
- Efficient and Fine-Grained Signature for IIoT With Resistance to Key Exposure. *Bao, Y., +, JIoT June 1, 2021 9189-9205*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G., +, JIoT Feb. 1, 2021 1908-1920*
- Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B., +, JIoT July 15, 2021 11400-11414*
- Efficient Approaches to Top-r Influential Community Search. *Luo, W., +, JIoT Aug. 15, 2021 12650-12657*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S., +, JIoT Feb. 15, 2021 2886-2899*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V., +, JIoT March 1, 2021 3394-3409*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q., +, JIoT Aug. 15, 2021 12782-12791*
- Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H., +, JIoT May 1, 2021 7437-7449*
- Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W., +, JIoT Jan. 15, 2021 1016-1029*
- Efficient Security Algorithm for Power-Constrained IoT Devices. *Mamvong, J.N., +, JIoT April 1, 2021 5498-5509*
- ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices. *Safaei, B., +, JIoT Jan. 15, 2021 1169-1182*
- EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S., +, JIoT May 15, 2021 8474-8487*
- Embedding Blockchain Technology Into IoT for Security: A Survey. *Xu, L.D., +, JIoT July 1, 2021 10452-10473*

- Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T., +, JIoT Nov. 1, 2021 16002-16013*
- Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G., +, JIoT Sept. 1, 2021 13774-13788*
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J., +, JIoT May 15, 2021 7789-7817*
- Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A., +, JIoT April 15, 2021 6406-6415*
- Enabling Massive IoT Toward 6G: A Comprehensive Survey. *Guo, F., +, JIoT Aug. 1, 2021 11891-11915*
- End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*
- End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H., +, JIoT Dec. 15, 2021 17356-17371*
- End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C., +, JIoT Dec. 1, 2021 17043-17056*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H., +, JIoT Sept. 1, 2021 13465-13486*
- Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. *Lee, C., +, JIoT May 15, 2021 8291-8303*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z., +, JIoT Sept. 15, 2021 13975-13990*
- Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y., +, JIoT Sept. 1, 2021 13640-13651*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R., +, JIoT Aug. 1, 2021 12410-12421*
- Energy-Efficient Deployment of IoT Applications in Edge-Based Infrastructures: A Software Product Line Approach. *Canete, A., +, JIoT Nov. 15, 2021 16427-16439*
- Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. *Kouroshezhad, S., +, JIoT April 1, 2021 5202-5210*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H., +, JIoT July 1, 2021 10779-10791*
- Energy-Efficient Intelligent Routing Scheme for IoT-Enabled WSNs. *Kaur, G., +, JIoT July 15, 2021 11440-11449*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R., +, JIoT Sept. 1, 2021 13593-13607*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z., +, JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M., JIoT May 1, 2021 7252-7269*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L., +, JIoT April 1, 2021 5114-5128*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X., +, JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L., +, JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*
- Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M., +, JIoT Aug. 1, 2021 12422-12435*
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A., +, JIoT Dec. 15, 2021 17495-17507*
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J., +, JIoT March 1, 2021 3438-3445*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*
- Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J., +, JIoT March 1, 2021 3323-3330*
- ERFR-CTC: Exploiting Residual Frequency Resources in Physical-Level Cross-Technology Communication. *Yao, S., +, JIoT April 1, 2021 6062-6076*
- ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things. *Li, D., +, JIoT May 1, 2021 7229-7240*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S., +, JIoT July 15, 2021 11345-11356*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M., +, JIoT Oct. 15, 2021 15059-15069*
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E., +, JIoT Sept. 15, 2021 14308-14321*
- Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing. *Haghighatdoost, V., +, JIoT April 1, 2021 5710-5721*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X., +, JIoT Dec. 15, 2021 17639-17654*
- Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q., +, JIoT Nov. 15, 2021 16473-16485*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T., +, JIoT Jan. 15, 2021 766-777*
- Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H., +, JIoT June 1, 2021 9450-9459*
- Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A., +, JIoT Dec. 1, 2021 16963-16971*
- Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L., +, JIoT April 15, 2021 6757-6770*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P., +, JIoT Oct. 15, 2021 15456-15467*
- Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P., +, JIoT April 15, 2021 6949-6962*
- FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning. *Abdulrahman, S., +, JIoT March 15, 2021 4723-4735*
- FogFL: Fog-Assisted Federated Learning for Resource-Constrained IoT Devices. *Saha, R., +, JIoT May 15, 2021 8456-8463*
- Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G., +, JIoT Dec. 1, 2021 17199-17210*
- Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S., +, JIoT July 15, 2021 11717-11731*
- FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IoT Technology. *Yang, L., +, JIoT June 15, 2021 9717-9729*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*
- FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L., +, JIoT May 1, 2021 7333-7345*
- Fuzzing the Internet of Things: A Review on the Techniques and Challenges for Efficient Vulnerability Discovery in Embedded Systems. *Eceiza, M., +, JIoT July 1, 2021 10390-10411*
- G2F: A Secure User Authentication for Rapid Smart Home IoT Management. *Luo, H., +, JIoT July 1, 2021 10884-10895*
- Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouissem, A., +, JIoT Dec. 1, 2021 16880-16893*

- Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W.*, +, *JIoT Dec. 15, 2021 17691-17704*
- Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B.*, +, *JIoT Feb. 1, 2021 1830-1845*
- Generalized Differential Index Modulation for Pilot-Free Communications. *Choi, J.*, +, *JIoT May 15, 2021 7973-7984*
- Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- GraphComm: Efficient Graph Convolutional Communication for Multiagent Cooperation. *Yuan, Q.*, +, *JIoT Nov. 15, 2021 16359-16369*
- Guest Editorial Special Issue on 6G-Enabled Internet of Things. *Liang, Q.*, +, *JIoT Oct. 15, 2021 15037-15040*
- Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications. *Yu, Q.*, +, *JIoT Nov. 15, 2021 16191-16194*
- Guest Editorial Special Issue on Smart IoT System: Opportunities by Linking Cloud, Edge, and AI. *Yang, W.*, +, *JIoT Aug. 15, 2021 12478-12480*
- Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W.*, +, *JIoT March 1, 2021 3053-3056*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S.*, +, *JIoT April 1, 2021 5111-5113*
- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*
- HARQ-Based Grant-Free NOMA for mMTC Uplink. *Jabbarvaziri, F.*, +, *JIoT May 15, 2021 8372-8386*
- HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. *Rashid, N.*, +, *JIoT Jan. 15, 2021 860-868*
- Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration. *Moon, J.H.*, +, *JIoT Feb. 1, 2021 1437-1452*
- Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J.*, +, *JIoT April 1, 2021 5794-5805*
- High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y.*, +, *JIoT Dec. 1, 2021 16872-16879*
- High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables. *Cai, M.*, +, *JIoT Jan. 1, 2021 297-308*
- History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control. *Gao, X.*, +, *JIoT Oct. 1, 2021 14683-14704*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z.*, +, *JIoT July 1, 2021 10940-10952*
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing. *Fan, S.*, +, *JIoT Feb. 15, 2021 2252-2264*
- Hybrid Decentralized Data Analytics in Edge-Computing-Empowered IoT Networks. *Zhao, L.*, +, *JIoT May 1, 2021 7706-7716*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W.*, +, *JIoT Nov. 1, 2021 16014-16022*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H.*, +, *JIoT Oct. 1, 2021 14458-14470*
- Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. *Wei, T.*, +, *JIoT June 1, 2021 8910-8934*
- Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*
- IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*
- Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F.*, +, *JIoT June 15, 2021 10170-10186*
- Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R.*, +, *JIoT April 15, 2021 7065-7078*
- Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L.*, +, *JIoT April 1, 2021 5574-5584*
- In.IoT—A New Middleware for Internet of Things. *da Cruz, M.A.A.*, +, *JIoT May 15, 2021 7902-7911*
- Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y.*, +, *JIoT Feb. 15, 2021 3000-3013*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N.*, +, *JIoT May 15, 2021 8259-8278*
- Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. *Wu, M.*, +, *JIoT July 1, 2021 10639-10651*
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magata, N.*, +, *JIoT April 15, 2021 6393-6405*
- Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. *Chiang, Y.*, +, *JIoT Oct. 1, 2021 14435-14446*
- Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S.*, +, *JIoT April 1, 2021 5172-5184*
- Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. *Ouyang, B.*, +, *JIoT Sept. 15, 2021 14013-14027*
- Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H.*, +, *JIoT Feb. 15, 2021 2379-2394*
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q-Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*
- Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S.*, +, *JIoT Aug. 15, 2021 12716-12723*
- Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A.*, +, *JIoT Nov. 15, 2021 16395-16405*
- Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities. *Bhuiyan, M.N.*, +, *JIoT July 1, 2021 10474-10498*
- Internet of Things for Agricultural Applications: The State of the Art. *Ojha, T.*, +, *JIoT July 15, 2021 10973-10997*
- IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J.*, +, *JIoT Aug. 15, 2021 12771-12781*
- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*
- IoT Service Slicing and Task Offloading for Edge Computing. *Hwang, J.*, +, *JIoT July 15, 2021 11526-11547*
- IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J.*, +, *JIoT Aug. 1, 2021 11983-12003*
- IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L.*, +, *JIoT April 1, 2021 5164-5171*
- IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G.*, +, *JIoT Jan. 15, 2021 1057-1070*
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L.*, +, *JIoT Dec. 1, 2021 16814-16824*
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*

- IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis. *Yun, J.*, +, *JIoT May 1, 2021 7380-7393*
- IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhelim, S.*, +, *JIoT Dec. 15, 2021 17817-17828*
- IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry. *Bhatia, M.*, *JIoT June 15, 2021 9523-9530*
- IoT-Praetor: Undesired Behaviors Detection for IoT Devices. *Wang, J.*, +, *JIoT Jan. 15, 2021 927-940*
- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P.*, +, *JIoT March 15, 2021 4830-4840*
- IoT-to-the-Rescue: A Survey of IoT Solutions for COVID-19-Like Pandemics. *Pathak, N.*, +, *JIoT Sept. 1, 2021 13145-13164*
- IoTCop: A Blockchain-Based Monitoring Framework for Detection and Isolation of Malicious Devices in Internet-of-Things Systems. *Seshadri, S.S.*, +, *JIoT March 1, 2021 3346-3359*
- ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G.*, +, *JIoT March 1, 2021 3120-3129*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*
- Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S.*, +, *JIoT Feb. 15, 2021 2135-2149*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X.*, +, *JIoT June 15, 2021 9511-9522*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Joint Placement of UPF and Edge Server for 6G Network. *Li, Y.*, +, *JIoT Nov. 15, 2021 16370-16378*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y.*, +, *JIoT Feb. 15, 2021 2792-2801*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y.*, +, *JIoT May 1, 2021 7126-7139*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H.*, +, *JIoT Sept. 1, 2021 13397-13413*
- Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J.*, +, *JIoT Nov. 15, 2021 16313-16325*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W.*, +, *JIoT Aug. 15, 2021 12758-12770*
- Large-Scale High-Utility Sequential Pattern Analytics in Internet of Things. *Srivastava, G.*, +, *JIoT Aug. 15, 2021 12669-12678*
- Large-Scale LoRa Networks: A Mode Adaptive Protocol. *Fernandes, R.*, +, *JIoT Sept. 1, 2021 13487-13502*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L.*, +, *JIoT April 15, 2021 6677-6691*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M.*, +, *JIoT July 15, 2021 11732-11742*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*
- Leveraging Semisupervised Hierarchical Stacking Temporal Convolutional Network for Anomaly Detection in IoT Communication. *Cheng, Y.*, +, *JIoT Jan. 1, 2021 144-155*
- Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things. *Li, Y.*, +, *JIoT March 15, 2021 4514-4525*
- Lightweight Cryptographic Protocols for IoT-Constrained Devices: A Survey. *Khan, M.N.*, +, *JIoT March 15, 2021 4132-4156*
- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S.*, +, *JIoT July 1, 2021 10706-10713*
- Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S.*, +, *JIoT Oct. 15, 2021 15170-15179*
- Local Differential Privacy-Based Federated Learning for Internet of Things. *Zhao, Y.*, +, *JIoT June 1, 2021 8836-8853*
- Locality-Sensitive IoT Network Traffic Fingerprinting for Device Identification. *Charyyev, B.*, +, *JIoT Feb. 1, 2021 1272-1281*
- Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M.*, +, *JIoT Jan. 1, 2021 407-417*
- Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks. *Deese, A.S.*, +, *JIoT Jan. 1, 2021 222-231*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X.*, +, *JIoT Jan. 1, 2021 332-344*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis. *Gao, J.*, +, *JIoT June 15, 2021 9945-9957*
- MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J.*, +, *JIoT June 15, 2021 9958-9969*
- Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A.*, +, *JIoT March 15, 2021 4461-4471*
- MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*
- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Massive MIMO for Underwater Industrial Internet of Things Networks. *Lee, B.M.*, *JIoT Oct. 15, 2021 15542-15552*
- Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. *Lopez, O.L.A.*, +, *JIoT June 1, 2021 8816-8835*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*
- Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*
- Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12266-12278*
- MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y.*, +, *JIoT Dec. 1, 2021 16933-16945*
- MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A.*, +, *JIoT Nov. 1, 2021 15762-15775*
- MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT. *Gupta, N.*, +, *JIoT May 1, 2021 7182-7191*
- Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C.*, +, *JIoT Aug. 15, 2021 12705-12715*
- MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J.*, +, *JIoT Oct. 15, 2021 15512-15521*
- Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. *Li, C.*, +, *JIoT Oct. 1, 2021 14543-14558*

- Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A., +, JIoT Nov. 1, 2021 16108-16120*
- Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*
- MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A., +, JIoT Dec. 15, 2021 1778-17789*
- Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G., +, JIoT Nov. 1, 2021 16165-16180*
- Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J., +, JIoT Nov. 1, 2021 16083-16095*
- Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X., +, JIoT April 1, 2021 6024-6038*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H., +, JIoT Dec. 15, 2021 17541-17556*
- Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. *Nguyen, L.D., +, JIoT April 15, 2021 6487-6497*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y., +, JIoT Sept. 15, 2021 14051-14065*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J., +, JIoT March 15, 2021 4389-4402*
- Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y., +, JIoT Nov. 1, 2021 16023-16034*
- Monotone Split and Conquer for Anomaly Detection in IoT Sensory Data. *Dang, T., +, JIoT Oct. 15, 2021 15468-15485*
- MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices. *Jin, R., +, JIoT July 1, 2021 10755-10765*
- MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J., +, JIoT Dec. 15, 2021 17403-17416*
- MTD, Where Art Thou? A Systematic Review of Moving Target Defense Techniques for IoT. *Navas, R.E., +, JIoT May 15, 2021 7818-7832*
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A., +, JIoT June 1, 2021 9397-9406*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C., +, JIoT Oct. 15, 2021 15553-15567*
- Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X., +, JIoT June 15, 2021 9763-9773*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A., +, JIoT March 1, 2021 3410-3421*
- Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J., +, JIoT Dec. 15, 2021 17417-17428*
- Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S., +, JIoT June 15, 2021 10010-10017*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y., +, JIoT March 1, 2021 3490-3499*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B., +, JIoT July 15, 2021 11705-11716*
- Multilayer Internet-of-Things Middleware Based on Knowledge Graph. *Xie, C., +, JIoT Feb. 15, 2021 2635-2648*
- Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y., +, JIoT Oct. 15, 2021 15148-15159*
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D., +, JIoT Dec. 15, 2021 17345-17355*
- Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network. *Xiao, G., +, JIoT Aug. 15, 2021 12748-12757*
- Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. *Pokhrel, S.R., +, JIoT July 1, 2021 10299-10307*
- Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D., +, JIoT June 1, 2021 9330-9343*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J., +, JIoT Oct. 15, 2021 15191-15204*
- Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z., +, JIoT Dec. 1, 2021 17000-17013*
- Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T., +, JIoT June 15, 2021 9634-9644*
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J., +, JIoT May 15, 2021 8304-8313*
- Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J., +, JIoT Nov. 1, 2021 15663-15671*
- NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G., +, JIoT July 15, 2021 11384-11399*
- Network Service Chaining and Embedding With Provable Bounds. *Zheng, D., +, JIoT May 1, 2021 7140-7151*
- Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. *Qiu, C., +, JIoT Aug. 15, 2021 12694-12704*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K., +, JIoT April 1, 2021 5332-5339*
- NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things. *Awan, K.A., +, JIoT Nov. 1, 2021 15672-15682*
- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D., +, JIoT Sept. 1, 2021 13367-13383*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z., +, JIoT Feb. 15, 2021 2364-2378*
- Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*
- Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y., +, JIoT Jan. 1, 2021 112-128*
- Novel Postquantum MQ-Based Signature Scheme for Internet of Things With Parallel Implementation. *Akleyek, S., +, JIoT April 15, 2021 6983-6994*
- Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y., +, JIoT Oct. 15, 2021 15382-15395*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y., JIoT Jan. 15, 2021 962-975*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R., +, JIoT June 1, 2021 8949-8963*
- OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S., +, JIoT Nov. 15, 2021 16418-16426*
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E., +, JIoT Jan. 1, 2021 309-319*
- On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer. *Lopez, O.L.A., +, JIoT Jan. 1, 2021 278-296*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N., +, JIoT March 1, 2021 3255-3267*
- On Designing Context-Aware Trust Model and Service Delegation for Social Internet of Things. *Wei, L., +, JIoT March 15, 2021 4775-4787*
- On Fast Retrieval for Two-Step Random Access in MTC. *Choi, J., JIoT Feb. 1, 2021 1428-1436*
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K., +, JIoT April 15, 2021 6815-6827*
- On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O., +, JIoT July 15, 2021 11581-11593*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W., +, JIoT Jan. 15, 2021 723-733*

- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*
- On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. *Suhail, S.*, +, *JIoT Jan. 1, 2021 1-17*
- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N.*, +, *JIoT Dec. 15, 2021 17382-17394*
- Online Compression of Multiple IoT Sources Reduces the Age of Information. *Yazdani, N.*, +, *JIoT Oct. 1, 2021 14514-14530*
- Operating Latency Sensitive Applications on Public Serverless Edge Cloud Platforms. *Pelle, I.*, +, *JIoT May 15, 2021 7954-7972*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F.*, +, *JIoT Aug. 15, 2021 13095-13114*
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H.*, +, *JIoT June 15, 2021 10117-10130*
- Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C.*, +, *JIoT March 15, 2021 4788-4801*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M.*, +, *JIoT June 1, 2021 9373-9382*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*
- Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*
- P-HIP: A Lightweight and Privacy-Aware Host Identity Protocol for Internet of Things. *Hossain, M.*, +, *JIoT Jan. 1, 2021 555-571*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K.*, +, *JIoT Oct. 1, 2021 14810-14821*
- Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems. *Jia, P.*, +, *JIoT Sept. 15, 2021 14028-14038*
- Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q.*, +, *JIoT Feb. 1, 2021 2011-2026*
- Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L.*, +, *JIoT Sept. 1, 2021 13355-13366*
- Performance Analysis Models of BLE Neighbor Discovery: A Survey. *Luo, B.*, +, *JIoT June 1, 2021 8734-8746*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T.*, +, *JIoT July 15, 2021 11655-11665*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T.*, +, *JIoT May 15, 2021 8387-8398*
- Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. *Yang, Y.*, +, *JIoT Sept. 15, 2021 14276-14286*
- PhiNet of Things: Things Connected by Physical Space From the Natural View. *Ning, H.*, +, *JIoT June 1, 2021 8680-8692*
- PLGAKD: A PUF-Based Lightweight Group Authentication and Key Distribution Protocol. *Yildiz, H.*, +, *JIoT April 1, 2021 5682-5696*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. *Wang, X.*, +, *JIoT July 1, 2021 10288-10298*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U.*, +, *JIoT Dec. 15, 2021 17333-17344*
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H.*, +, *JIoT Nov. 1, 2021 15683-15693*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT. *Chen, S.*, +, *JIoT March 1, 2021 3276-3286*
- Privacy-Preserving Federated Learning Framework Based on Chained Secure Multiparty Computing. *Li, Y.*, +, *JIoT April 15, 2021 6178-6186*
- Privacy-Preserving Flexible Access Control for Encrypted Data in Internet of Things. *Zhang, L.*, +, *JIoT Oct. 1, 2021 14731-14745*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*
- Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios. *Zhu, L.*, +, *JIoT Aug. 1, 2021 12106-12118*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C.*, +, *JIoT April 1, 2021 5340-5349*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q.*, +, *JIoT July 15, 2021 11463-11475*
- Probabilistic Source Localization Based on Time-of-Arrival Measurements. *Salt, J.E.*, +, *JIoT April 1, 2021 5881-5892*
- Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A.*, +, *JIoT Nov. 15, 2021 16613-16622*
- PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*
- Public Blockchains for Resource-Constrained IoT Devices—A State-of-the-Art Survey. *Khor, J.H.*, +, *JIoT Aug. 1, 2021 11960-11982*
- QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C.*, +, *JIoT March 15, 2021 4855-4867*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*
- Querying the IoT Using Multiresolution Contexts. *Diamantini, C.*, +, *JIoT April 1, 2021 6127-6139*
- QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T.*, +, *JIoT Feb. 1, 2021 1846-1858*
- Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM. *Reising, D.*, +, *JIoT May 15, 2021 8356-8371*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*
- Rateless TLRCM for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M.*, +, *JIoT June 1, 2021 9177-9188*

- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J.*, +, *JIoT March 1, 2021 3088-3098*
- ReapIoT: Reliable, Energy-Aware Network Protocol for Large-Scale Internet-of-Things (IoT) Applications. *Badi, A.*, +, *JIoT Sept. 1, 2021 13582-13592*
- Recent Advances in the Internet-of-Medical-Things (IoMT) Systems Security. *Ghubaish, A.*, +, *JIoT June 1, 2021 8707-8718*
- Reinforcement Learning for IoT Security: A Comprehensive Survey. *Uprety, A.*, +, *JIoT June 1, 2021 8693-8706*
- Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y.*, +, *JIoT July 15, 2021 11163-11176*
- Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*
- Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C.*, +, *JIoT July 15, 2021 11249-11259*
- Reliable Real-Time Operating System for IoT Devices. *Hahm, S.*, +, *JIoT March 1, 2021 3705-3716*
- Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. *Wen, P.*, +, *JIoT June 1, 2021 9045-9058*
- Request-Response and Censoring-Based Energy-Efficient Decentralized Change-Point Detection With IoT Applications. *Gu, Y.*, +, *JIoT April 15, 2021 6771-6788*
- Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H.*, +, *JIoT Dec. 1, 2021 16972-16983*
- Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications. *Liu, Y.*, +, *JIoT Feb. 1, 2021 1322-1333*
- Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X.*, +, *JIoT Nov. 1, 2021 15939-15952*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G.*, +, *JIoT Sept. 15, 2021 14385-14398*
- Resource Management for Secure Computation Offloading in Software-Defined Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaoumar, A.*, +, *JIoT July 15, 2021 11088-11099*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks. *Jang, H.S.*, +, *JIoT July 15, 2021 11640-11654*
- Review on Metamaterial Perfect Absorbers and Their Applications to IoT. *Amiri, M.*, +, *JIoT March 15, 2021 4105-4131*
- Reviewing IoT Security via Logic Bugs in IoT Platforms and Systems. *Zhou, W.*, +, *JIoT July 15, 2021 11621-11639*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- Robust Learning-Enabled Intelligence for the Internet of Things: A Survey From the Perspectives of Noisy Data and Adversarial Examples. *Wu, Y.*, *JIoT June 15, 2021 9568-9579*
- Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*
- Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021 9549-9558*
- Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. *Altaf, A.*, +, *JIoT May 1, 2021 7497-7509*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M.*, +, *JIoT March 1, 2021 3619-3635*
- S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S.*, +, *JIoT April 15, 2021 6975-6982*
- Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaikhan, A.*, +, *JIoT April 1, 2021 6039-6052*
- SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M.*, +, *JIoT March 1, 2021 3665-3677*
- SBBS: A Secure Blockchain-Based Scheme for IoT Data Credibility in Fog Environment. *Fan, Y.*, +, *JIoT June 1, 2021 9268-9277*
- Scalable and Efficient Hardware Architectures for Authenticated Encryption in IoT Applications. *Khan, S.*, +, *JIoT July 15, 2021 11260-11275*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*
- SCBS: A Short Certificate-Based Signature Scheme With Efficient Aggregation for Industrial-Internet-of-Things Environment. *Verma, G.K.*, +, *JIoT June 1, 2021 9305-9316*
- SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V.*, +, *JIoT Nov. 15, 2021 16637-16652*
- SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*
- SDN-Enabled Secure IoT Architecture. *Karmakar, K.K.*, +, *JIoT April 15, 2021 6549-6564*
- SearchBC: A Blockchain-Based PEKS Framework for IoT Services. *Jiang, P.*, +, *JIoT March 15, 2021 5031-5044*
- Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z.*, +, *JIoT April 15, 2021 6385-6392*
- Secure and Efficient Data Aggregation for IoT Monitoring Systems. *Rezaeibagha, F.*, +, *JIoT May 15, 2021 8056-8063*
- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W.*, +, *JIoT May 15, 2021 8119-8132*
- Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F.*, +, *JIoT Dec. 15, 2021 17669-17677*
- Secure Collaborative Deep Learning Against GAN Attacks in the Internet of Things. *Chen, Z.*, +, *JIoT April 1, 2021 5839-5849*
- Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W.*, +, *JIoT May 15, 2021 8632-8643*
- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H.*, +, *JIoT Dec. 1, 2021 17211-17226*
- Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S.*, +, *JIoT July 1, 2021 10815-10829*
- Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y.*, +, *JIoT March 1, 2021 3500-3511*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*
- Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*
- Security Challenges and Opportunities for Smart Contracts in Internet of Things: A Survey. *Peng, K.*, +, *JIoT Aug. 1, 2021 12004-12020*
- Security Requirements and Solutions for IoT Gateways: A Comprehensive Study. *Lins, F.A.A.*, +, *JIoT June 1, 2021 8667-8679*
- Security-Aware Deployment Optimization of Cloud-Edge Systems in Industrial IoT. *Casola, V.*, +, *JIoT Aug. 15, 2021 12724-12733*
- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R.*, +, *JIoT April 15, 2021 6214-6221*
- Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12251-12265*

- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Shadow: A Lightweight Block Cipher for IoT Nodes. *Guo, Y.*, +, *JIoT Aug. 15, 2021 13014-13023*
- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*
- Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C.*, +, *JIoT May 15, 2021 8044-8055*
- Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A.*, +, *JIoT July 1, 2021 10792-10806*
- Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y.*, +, *JIoT Dec. 1, 2021 16770-16778*
- Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing. *Miao, Y.*, +, *JIoT Feb. 15, 2021 2289-2299*
- Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *Abkenar, F.S.*, +, *JIoT March 1, 2021 3875-3884*
- Sniffing Only Control Packets: A Lightweight Client-Side WiFi Traffic Characterization Solution. *Song, L.*, +, *JIoT April 15, 2021 6536-6548*
- Social Interaction and Information Diffusion in Social Internet of Things: Dynamics, Cloud-Edge, Traceability. *Yi, Y.*, +, *JIoT Feb. 15, 2021 2177-2192*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*
- Softwarized IoT Network Immunity Against Eavesdropping With Programmable Data Planes. *Liu, G.*, +, *JIoT April 15, 2021 6578-6590*
- Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S.*, +, *JIoT April 1, 2021 5607-5618*
- Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S.*, +, *JIoT Dec. 15, 2021 17320-17332*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q.*, +, *JIoT June 15, 2021 10146-10159*
- Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*
- Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. *Fortino, G.*, +, *JIoT July 1, 2021 10220-10221*
- Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IoT. *Qiu, M.*, +, *JIoT June 15, 2021 9460-9462*
- SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*
- ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoT Applications. *Abdel-Basset, M.*, +, *JIoT March 15, 2021 4969-4979*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A.*, +, *JIoT April 1, 2021 5185-5193*
- Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L.*, +, *JIoT July 15, 2021 11329-11344*
- STEC-IoT: A Security Tactic by Virtualizing Edge Computing on IoT. *Zhang, P.*, +, *JIoT Feb. 15, 2021 2459-2467*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y.*, +, *JIoT Sept. 1, 2021 13316-13327*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T.*, +, *JIoT June 15, 2021 10160-10169*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*
- SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things. *Kayas, G.*, +, *JIoT July 15, 2021 11561-11580*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K.*, *JIoT May 1, 2021 7407-7422*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*
- Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L.*, +, *JIoT May 15, 2021 7912-7924*
- Systematically Quantifying IoT Privacy Leakage in Mobile Networks. *Hui, S.*, +, *JIoT May 1, 2021 7115-7125*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*
- Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis. *Sandhu, M.M.*, +, *JIoT Sept. 15, 2021 13825-13848*
- Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P.*, +, *JIoT May 1, 2021 7562-7574*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F.*, +, *JIoT Sept. 1, 2021 13266-13277*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*
- The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A.*, +, *JIoT Dec. 15, 2021 17236-17260*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*
- The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M.*, +, *JIoT Dec. 1, 2021 16984-16999*
- The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L.*, +, *JIoT July 15, 2021 11503-11513*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A.*, +, *JIoT Oct. 1, 2021 14874-14895*
- Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y.*, +, *JIoT Feb. 1, 2021 1716-1727*
- Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R.*, +, *JIoT Dec. 15, 2021 17568-17583*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H.*, +, *JIoT April 1, 2021 5141-5148*
- Toward 6G Internet of Things and the Convergence With RoF System. *Chen, N.*, +, *JIoT June 1, 2021 8719-8733*
- Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things. *Borgiani, V.*, +, *JIoT March 15, 2021 4569-4578*
- Toward Achieving a Balance Between the User Satisfaction and the Power Conservation in the Internet of Things. *Abusukhon, A.*, *JIoT July 15, 2021 10998-11015*
- Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K.*, +, *JIoT Aug. 15, 2021 12623-12637*
- Toward Computing Resource Reservation Scheduling in Industrial Internet of Things. *Liang, F.*, +, *JIoT May 15, 2021 8210-8222*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H.*, +, *JIoT June 15, 2021 9664-9671*
- Toward Deep Transfer Learning in Industrial Internet of Things. *Liu, X.*, +, *JIoT Aug. 1, 2021 12163-12175*
- Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber-Physical Systems. *Jahromi, A.N.*, +, *JIoT Sept. 1, 2021 13712-13722*
- Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras. *Lu, C.*, +, *JIoT March 15, 2021 4931-4943*

- Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S.*, +, *JIoT April 1, 2021 5408-5415*
- Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*
- Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*
- Toward Location-Enabled IoT (LE-IoT): IoT Positioning Techniques, Error Sources, and Error Mitigation. *Li, Y.*, +, *JIoT March 15, 2021 4035-4062*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U.*, +, *JIoT Jan. 1, 2021 443-457*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y.*, +, *JIoT Nov. 15, 2021 16243-16255*
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H.*, +, *JIoT March 1, 2021 3180-3188*
- Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*
- Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X.*, +, *JIoT Aug. 15, 2021 12902-12918*
- Trust Management in Social Internet of Things: Architectures, Recent Advancements, and Future Challenges. *Khan, W.Z.*, +, *JIoT May 15, 2021 7768-7788*
- Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*
- TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems. *Xu, G.*, +, *JIoT June 15, 2021 9559-9567*
- UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*
- Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malarski, K.M.*, +, *JIoT April 15, 2021 6746-6756*
- Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X.*, +, *JIoT Oct. 15, 2021 15049-15058*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H.*, +, *JIoT March 15, 2021 4762-4774*
- Utility-Theory-Based Optimal Resource Consumption for Inference in IoT Systems. *Geng, B.*, +, *JIoT Aug. 1, 2021 12279-12288*
- Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT. *Han, C.*, +, *JIoT Sept. 1, 2021 13555-13566*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X.*, +, *JIoT Feb. 1, 2021 1728-1739*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L.*, +, *JIoT July 15, 2021 11233-11248*
- Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things. *Zhang, Z.*, +, *JIoT Oct. 15, 2021 15259-15266*
- Voting-Based Multiagent Reinforcement Learning for Intelligent IoT. *Xu, Y.*, +, *JIoT Feb. 15, 2021 2681-2693*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M.*, +, *JIoT Oct. 15, 2021 15240-15248*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multiscale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*
- Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*
- Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M.*, +, *JIoT Aug. 1, 2021 11834-11846*
- Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P.*, +, *JIoT Dec. 15, 2021 17557-17567*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y.*, +, *JIoT Feb. 15, 2021 2627-2634*
- Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z.*, +, *JIoT April 15, 2021 6608-6623*
- Internetworking**
- An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*
- Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J.*, +, *JIoT March 1, 2021 3268-3275*
- Cantor: Improving Goodput in LoRa Concurrent Transmission. *Xu, D.*, +, *JIoT Feb. 1, 2021 1519-1532*
- Design and Prototype Implementation of a Blockchain-Enabled LoRa System With Edge Computing. *Hou, L.*, +, *JIoT Feb. 15, 2021 2419-2430*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F.*, +, *JIoT June 15, 2021 9970-9980*
- EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S.*, +, *JIoT May 15, 2021 8474-8487*
- Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A.*, +, *JIoT March 15, 2021 4433-4447*
- ERFR-CTC: Exploiting Residual Frequency Resources in Physical-Level Cross-Technology Communication. *Yao, S.*, +, *JIoT April 1, 2021 6062-6076*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- IoT Service Slicing and Task Offloading for Edge Computing. *Hwang, J.*, +, *JIoT July 15, 2021 11526-11547*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Security Requirements and Solutions for IoT Gateways: A Comprehensive Study. *Lins, F.A.A.*, +, *JIoT June 1, 2021 8667-8679*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*
- Interoperability**
- HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N.*, +, *JIoT Dec. 1, 2021 16845-16852*
- Interpolation**
- Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A.*, +, *JIoT Nov. 1, 2021 15652-15662*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- Intersymbol interference**
- Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W.*, +, *JIoT Feb. 15, 2021 2931-2942*
- Invasive software**
- A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT May 1, 2021 7360-7371*
- An Evolutionary Study of IoT Malware. *Wang, H.*, +, *JIoT Oct. 15, 2021 15422-15440*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magaia, N.*, +, *JIoT April 15, 2021 6393-6405*
- Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*
- Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaikhan, A.*, +, *JIoT April 1, 2021 6039-6052*

Investment

An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*

Blockchain for Diamond Industry: Opportunities and Challenges. *Thakker, U.*, +, *JIoT June 1, 2021 8747-8773*

IP networks

A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. *Muzammal, S.M.*, +, *JIoT March 15, 2021 4186-4210*

A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J.*, +, *JIoT May 1, 2021 7521-7530*

A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S.*, +, *JIoT May 15, 2021 8411-8422*

A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H.*, +, *JIoT April 1, 2021 6002-6011*

An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. *Mahyoub, M.*, +, *JIoT May 1, 2021 7152-7169*

Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*

Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*

EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S.*, +, *JIoT May 15, 2021 8474-8487*

HoneyPot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W.*, +, *JIoT Dec. 15, 2021 17372-17381*

Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*

Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J.*, +, *JIoT Dec. 15, 2021 17417-17428*

REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*

SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*

Securing 6LoWPAN Neighbor Discovery. *Park, W.*, +, *JIoT Sept. 1, 2021 13677-13689*

Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G.*, +, *JIoT July 1, 2021 10714-10730*

Irrigation

AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K.*, +, *JIoT March 15, 2021 5023-5030*

CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y.*, +, *JIoT April 15, 2021 6893-6903*

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*

Soil-Moisture-Sensor-Based Automated Soil Water Content Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*

ISO standards

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

Iterative decoding

Rateless TLRCM for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*

Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*

Iterative methods

A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S.*, +, *JIoT Jan. 15, 2021 1082-1094*

A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks. *Su, Y.*, +, *JIoT March 1, 2021 3653-3664*

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F.*, +, *JIoT Oct. 1, 2021 15024-15036*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*

Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*

Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*

Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*

Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. *Zuo, Y.*, +, *JIoT June 1, 2021 9084-9098*

Building Layout Tomographic Reconstruction via Commercial WiFi Signals. *Zhang, Y.*, +, *JIoT Oct. 15, 2021 15500-15511*

Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*

Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J.*, +, *JIoT Oct. 15, 2021 15096-15106*

Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C.*, +, *JIoT Oct. 15, 2021 15531-15541*

Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*

Cost-Effective Active Sparse Urban Sensing: Adversarial Autoencoder Approach. *Zhu, K.*, +, *JIoT Aug. 1, 2021 12064-12078*

Cost-Effective Bad Synchronophaser Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*

Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B.*, +, *JIoT March 1, 2021 3066-3074*

Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B.*, +, *JIoT Oct. 15, 2021 15140-15147*

Distributed Task Offloading Optimization With Queueing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J.*, +, *JIoT Aug. 1, 2021 12311-12328*

Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*

Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*

Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H.*, +, *JIoT Oct. 1, 2021 14458-14470*

Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J.*, +, *JIoT Oct. 1, 2021 14773-14786*

Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*

Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*

Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*

Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*

Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X.*, +, *JIoT June 15, 2021 9511-9522*

Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*

Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y.*, +, *JIoT May 1, 2021 7126-7139*

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*

Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*

Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*

Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*

Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*

NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L.*, +, *JIoT May 15, 2021 8107-8118*

Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G.*, +, *JIoT Feb. 15, 2021 2483-2493*

On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. *Zhang, F.*, +, *JIoT April 1, 2021 6101-6113*

Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*

Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*

Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications. *Liu, Y.*, +, *JIoT Feb. 1, 2021 1322-1333*

Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*

Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*

Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*

Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*

Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021 528-540*

Single Sensor to Estimate DOA With Programmable Metasurface. *Lin, M.*, +, *JIoT June 15, 2021 10187-10197*

Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*

Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*

Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*

Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*

UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*

UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*

UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*

J

Jamming

A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M.*, +, *JIoT March 15, 2021 4373-4388*

Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K.*, +, *JIoT Dec. 15, 2021 17476-17494*

Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouissem, A.*, +, *JIoT Dec. 1, 2021 16880-16893*

Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*

Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y.*, +, *JIoT Feb. 15, 2021 3000-3013*

Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B.*, +, *JIoT July 15, 2021 11705-11716*

Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A.*, +, *JIoT Sept. 1, 2021 13278-13290*

Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*

Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*

UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z.*, +, *JIoT Aug. 1, 2021 12289-12310*

Java

O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R.*, +, *JIoT June 1, 2021 8949-8963*

Jet engines

Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*

K

Kalman filters

A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network. *Zhao, S.*, +, *JIoT June 1, 2021 9030-9044*

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*

Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y.*, +, *JIoT Jan. 15, 2021 1183-1196*

Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*

Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*

Keyboards

Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A.*, +, *JIoT Nov. 15, 2021 16680-16691*

Knapsack problems

Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X.*, +, *JIoT April 1, 2021 6024-6038*

Knowledge acquisition

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*

Knowledge based systems

A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C.*, +, *JIoT May 1, 2021 7510-7520*

Location, Context, and Social Objectives Using Knowledge-Based Rules and Conflict Resolution for Security in Internet of Things. *Bala Krishna, M., +, JIoT Jan. 1, 2021 407-417*

Knowledge representation

Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F., +, JIoT Dec. 1, 2021 16758-16769*

L

Lamps

Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*

Laser radar

Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A., +, JIoT Dec. 15, 2021 17429-17435*

Law

Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K., +, JIoT Aug. 1, 2021 12384-12397*

LC circuits

QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*

Learning (artificial intelligence)

Federated Sensing: Edge-Cloud Elastic Collaborative Learning for Intelligent Sensing. *Gao, Y., +, JIoT July 15, 2021 11100-11111*

ToiletBuilder: A PU-Learning-Based Model for Selecting New Public Toilet Locations. *Chen, C., +, JIoT May 1, 2021 7531-7545*

A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J., +, JIoT May 1, 2021 7546-7561*

A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*

A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H., +, JIoT Feb. 15, 2021 2124-2134*

A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G., +, JIoT Aug. 15, 2021 12518-12527*

A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O., +, JIoT June 15, 2021 9463-9472*

A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L., +, JIoT Oct. 15, 2021 15249-15258*

A Human-Machine Interaction Scheme Based on Background Knowledge in 6G-Enabled IoT Environment. *Yuan, Y., +, JIoT Oct. 15, 2021 15292-15302*

A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S., +, JIoT Feb. 1, 2021 1358-1372*

A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P., +, JIoT March 15, 2021 4991-4999*

A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R., +, JIoT March 15, 2021 4339-4352*

A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature. *Hagos, D.H., +, JIoT March 1, 2021 3534-3553*

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S., +, JIoT Jan. 15, 2021 1154-1168*

A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P., +, JIoT July 15, 2021 11476-11486*

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L., +, JIoT Feb. 1, 2021 2066-2077*

A Novel Semi-Supervised Learning Approach to Pedestrian Reidentification. *Han, H., +, JIoT Feb. 15, 2021 3042-3052*

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z., +, JIoT June 1, 2021 9122-9138*

A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G., +, JIoT March 1, 2021 3360-3368*

A Survey on Federated Learning: The Journey From Centralized to Distributed On-Site Learning and Beyond. *Abdulrahman, S., +, JIoT April 1, 2021 5476-5497*

Accurate Interpretation of the Online Learning Model for 6G-Enabled Internet of Things. *Huang, J., +, JIoT Oct. 15, 2021 15228-15239*

Achieving Democracy in Edge Intelligence: A Fog-Based Collaborative Learning Scheme. *Zhang, T., +, JIoT Feb. 15, 2021 2751-2761*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*

Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J., +, JIoT March 1, 2021 3930-3938*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*

ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks. *Sudheera, K.L.K., +, JIoT April 15, 2021 6591-6607*

Adversarial Privacy-Preserving Graph Embedding Against Inference Attack. *Li, K., +, JIoT April 15, 2021 6904-6915*

AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H., +, JIoT April 15, 2021 6167-6177*

AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K., +, JIoT April 1, 2021 5264-5273*

An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J., +, JIoT Jan. 1, 2021 458-473*

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L., +, JIoT July 15, 2021 11357-11367*

An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T., +, JIoT March 1, 2021 3170-3179*

An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D., +, JIoT March 15, 2021 4816-4829*

An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y., +, JIoT May 15, 2021 8616-8631*

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M., +, JIoT Feb. 1, 2021 1572-1584*

Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H., +, JIoT Jan. 1, 2021 197-210*

Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y., +, JIoT May 15, 2021 8173-8190*

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L., +, JIoT March 1, 2021 3211-3223*

Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y., +, JIoT Feb. 15, 2021 2226-2237*

Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W., +, JIoT April 1, 2021 5926-5937*

Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*

Blockchain-Enabled Secure Data Sharing Scheme in Mobile-Edge Computing: An Asynchronous Advantage Actor-Critic Learning Approach. *Liu, L., +, JIoT Feb. 15, 2021 2342-2353*

- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning. *Mohammed, I.*, +, *JIoT April 1, 2021 5938-5952*
- Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O.*, +, *JIoT Feb. 15, 2021 2540-2557*
- Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L.*, +, *JIoT Feb. 15, 2021 3014-3026*
- CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F.*, +, *JIoT March 1, 2021 3075-3087*
- CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X.*, +, *JIoT May 15, 2021 8191-8209*
- CLONE: Collaborative Learning on the Edges. *Lu, S.*, +, *JIoT July 1, 2021 10222-10236*
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*
- Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J.*, +, *JIoT Jan. 1, 2021 244-261*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*
- Combining Pose Invariant and Discriminative Features for Vehicle Reidentification. *Sheng, H.*, +, *JIoT March 1, 2021 3189-3200*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C.*, +, *JIoT Oct. 15, 2021 15531-15541*
- Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*
- Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*
- Consensus Algorithms and Deep Reinforcement Learning in Energy Market: A Review. *Jogunola, O.*, +, *JIoT March 15, 2021 4211-4227*
- Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N.*, +, *JIoT May 1, 2021 7270-7278*
- Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D.*, +, *JIoT May 15, 2021 8603-8615*
- Context-Aware Adaptive Route Mutation Scheme: A Reinforcement Learning Approach. *Xu, C.*, +, *JIoT Sept. 1, 2021 13528-13541*
- Context-Aware Wireless-Based Cross-Domain Gesture Recognition. *Kang, H.*, +, *JIoT Sept. 1, 2021 13503-13515*
- Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R.*, +, *JIoT June 1, 2021 8964-8975*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- Cost-Effective Active Sparse Urban Sensing: Adversarial Autoencoder Approach. *Zhu, K.*, +, *JIoT Aug. 1, 2021 12064-12078*
- Cost-Effective Bad Synchronophaser Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*
- Count Estimation With a Low-Accuracy Machine Learning Model. *Sei, Y.*, +, *JIoT April 15, 2021 7079-7088*
- DFOPS: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. *Tarekgn, G.B.*, +, *JIoT March 1, 2021 3717-3729*
- Data and Knowledge Twin Driven Integration for Large-Scale Device-Free Localization. *Zhang, J.*, +, *JIoT Jan. 1, 2021 320-331*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P.*, +, *JIoT March 15, 2021 4448-4460*
- Deep Q-Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*
- Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B.*, +, *JIoT March 1, 2021 3066-3074*
- Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy. *Fang, D.*, +, *JIoT June 15, 2021 9654-9663*
- Deep Siamese Cross-Residual Learning for Robust Visual Tracking. *Wu, F.*, +, *JIoT Oct. 15, 2021 15216-15227*
- Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing. *Zhang, J.*, +, *JIoT Feb. 15, 2021 3027-3041*
- Deep-Learning-Enabled Security Issues in the Internet of Things. *Lv, Z.*, +, *JIoT June 15, 2021 9531-9538*
- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X.*, +, *JIoT Aug. 15, 2021 12588-12596*
- Deep-Reinforcement-Learning-Based User Profile Perturbation for Privacy-Aware Recommendation. *Xiao, Y.*, +, *JIoT March 15, 2021 4560-4568*
- DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT. *Kok, I.*, +, *JIoT Jan. 1, 2021 232-243*
- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *Zhang, W.*, +, *JIoT May 15, 2021 8021-8031*
- Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments. *Tiwari, M.*, +, *JIoT July 1, 2021 10631-10638*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G.*, +, *JIoT Nov. 15, 2021 16440-16451*
- Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V.*, +, *JIoT Nov. 1, 2021 16047-16071*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V.*, +, *JIoT May 15, 2021 8133-8144*
- DQN-Based Optimization Framework for Secure Sharded Blockchain Systems. *Yun, J.*, +, *JIoT Jan. 15, 2021 708-722*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T.*, +, *JIoT March 1, 2021 3224-3241*
- Dynamic Charging Scheme Problem With Actor-Critic Reinforcement Learning. *Yang, M.*, +, *JIoT Jan. 1, 2021 370-380*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S.*, +, *JIoT Jan. 15, 2021 976-988*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y.*, +, *JIoT May 1, 2021 7450-7465*
- Dynamic-Fusion-Based Federated Learning for COVID-19 Detection. *Zhang, W.*, +, *JIoT Nov. 1, 2021 15884-15891*
- E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L.*, +, *JIoT July 15, 2021 11290-11304*
- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*
- Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D.*, +, *JIoT Feb. 15, 2021 2959-2975*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*

- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahem, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J.*, +, *JIoT May 15, 2021 7789-7817*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R.*, +, *JIoT Aug. 1, 2021 12410-12421*
- Energy-Efficient Intelligent Routing Scheme for IoT-Enabled WSNs. *Kaur, G.*, +, *JIoT July 15, 2021 11440-11449*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X.*, +, *JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L.*, +, *JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S.*, +, *JIoT June 15, 2021 10209-10219*
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J.*, +, *JIoT March 1, 2021 3438-3445*
- Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*
- ESR-GAN: Environmental Signal Reconstruction Learning With Generative Adversarial Network. *Kang, X.*, +, *JIoT Jan. 1, 2021 636-646*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M.*, +, *JIoT Oct. 15, 2021 15059-15069*
- Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing. *Shen, M.*, +, *JIoT Feb. 15, 2021 2265-2275*
- Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J.*, +, *JIoT Oct. 1, 2021 14623-14637*
- Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L.*, +, *JIoT April 15, 2021 6757-6770*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*
- Federated Learning in the Sky: Aerial-Ground Air Quality Sensing Framework With UAV Swarms. *Liu, Y.*, +, *JIoT June 15, 2021 9827-9837*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C.*, +, *JIoT Aug. 15, 2021 12806-12825*
- Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P.*, +, *JIoT April 15, 2021 6949-6962*
- FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning. *Abdulrahman, S.*, +, *JIoT March 15, 2021 4723-4735*
- FogFL: Fog-Assisted Federated Learning for Resource-Constrained IoT Devices. *Saha, R.*, +, *JIoT May 15, 2021 8456-8463*
- FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IoT Technology. *Yang, L.*, +, *JIoT June 15, 2021 9717-9729*
- Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B.*, +, *JIoT Feb. 1, 2021 1830-1845*
- Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R.*, +, *JIoT Aug. 15, 2021 12955-12967*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*
- HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. *Rashid, N.*, +, *JIoT Jan. 15, 2021 860-868*
- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City. *Yang, J.*, +, *JIoT April 15, 2021 6416-6424*
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- Hybrid Blockchain-Based Resource Trading System for Federated Learning in Edge Computing. *Fan, S.*, +, *JIoT Feb. 15, 2021 2252-2264*
- Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D.*, +, *JIoT July 15, 2021 11193-11207*
- Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R.*, +, *JIoT April 15, 2021 7065-7078*
- Incentivizing Differentially Private Federated Learning: A Multidimensional Contract Approach. *Wu, M.*, +, *JIoT July 1, 2021 10639-10651*
- Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y.*, +, *JIoT Feb. 1, 2021 1544-1556*
- Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. *Ouyang, B.*, +, *JIoT Sept. 15, 2021 14013-14027*
- Integrated Multiple Kernel Learning for Device-Free Localization in Cluttered Environments Using Spatiotemporal Information. *Zhang, J.*, +, *JIoT March 15, 2021 4749-4761*
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q-Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*
- Intrusion Detection for Cyber-Physical Systems Using Generative Adversarial Networks in Fog Environment. *Freitas de Araujo-Filho, P.*, +, *JIoT April 15, 2021 6247-6256*
- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*
- Keeping Cell Selection Model Up-to-Date to Adapt to Time-Dependent Environment in Sparse Mobile Crowdsensing. *Han, L.*, +, *JIoT Sept. 15, 2021 13914-13925*
- Leaky Nets: Recovering Embedded Neural Network Models and Inputs Through Simple Power and Timing Side-Channels—Attacks and Defenses. *Maji, S.*, +, *JIoT Aug. 1, 2021 12079-12092*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J.*, +, *JIoT Aug. 1, 2021 12350-12359*
- Local Alignment Deep Network for Infrared-Visible Cross-Modal Person Reidentification in 6G-Enabled Internet of Things. *Liu, S.*, +, *JIoT Oct. 15, 2021 15170-15179*
- Local Differential Privacy-Based Federated Learning for Internet of Things. *Zhao, Y.*, +, *JIoT June 1, 2021 8836-8853*
- Locality-Sensitive IoT Network Traffic Fingerprinting for Device Identification. *Charyyev, B.*, +, *JIoT Feb. 1, 2021 1272-1281*
- Machine-Learning-Based Efficient and Secure RSU Placement Mechanism for Software-Defined-IoV. *Anbalagan, S.*, +, *JIoT Sept. 15, 2021 13950-13957*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W.*, +, *JIoT Sept. 1, 2021 13703-13711*
- MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*
- MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L.*, +, *JIoT June 1, 2021 9383-9396*

- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D.*, +, *JIoT July 15, 2021 11415-11426*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D.*, +, *JIoT Jan. 15, 2021 813-828*
- MetaSense: Boosting RF Sensing Accuracy Using Dynamic Metasurface Antenna. *Lan, G.*, +, *JIoT Sept. 15, 2021 14110-14126*
- Monotone Split and Conquer for Anomaly Detection in IoT Sensory Data. *Dang, T.*, +, *JIoT Oct. 15, 2021 15468-15485*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A.*, +, *JIoT March 1, 2021 3410-3421*
- Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S.*, +, *JIoT June 15, 2021 10010-10017*
- Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y.*, +, *JIoT Oct. 15, 2021 15148-15159*
- Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. *Pokhrel, S.R.*, +, *JIoT July 1, 2021 10299-10307*
- NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G.*, +, *JIoT July 15, 2021 11384-11399*
- Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City. *Hu, H.*, +, *JIoT June 15, 2021 9539-9548*
- Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. *Qiu, C.*, +, *JIoT Aug. 15, 2021 12694-12704*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z.*, +, *JIoT Feb. 15, 2021 2364-2378*
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J.*, +, *JIoT Jan. 15, 2021 951-961*
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E.*, +, *JIoT Jan. 1, 2021 309-319*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N.*, +, *JIoT March 1, 2021 3255-3267*
- Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach. *Yuan, H.*, +, *JIoT Oct. 1, 2021 14985-14998*
- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y.*, +, *JIoT Jan. 15, 2021 791-801*
- Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D.*, +, *JIoT Sept. 1, 2021 13196-13208*
- Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M.*, +, *JIoT Sept. 1, 2021 13690-13702*
- Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L.*, +, *JIoT Sept. 1, 2021 13355-13366*
- Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T.*, +, *JIoT Feb. 1, 2021 1533-1543*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J.*, +, *JIoT March 1, 2021 3310-3322*
- Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning. *Yurtman, A.*, +, *JIoT May 15, 2021 8328-8342*
- PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. *Wang, X.*, +, *JIoT July 1, 2021 10288-10298*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT. *Chen, S.*, +, *JIoT March 1, 2021 3276-3286*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Privacy-Preserving Federated Learning Framework Based on Chained Secure Multiparty Computing. *Li, Y.*, +, *JIoT April 15, 2021 6178-6186*
- Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios. *Zhu, L.*, +, *JIoT Aug. 1, 2021 12106-12118*
- Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H.*, +, *JIoT Nov. 1, 2021 15919-15928*
- Realizing the Heterogeneity: A Self-Organized Federated Learning Framework for IoT. *Pang, J.*, +, *JIoT March 1, 2021 3088-3098*
- Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z.*, +, *JIoT May 1, 2021 7279-7287*
- Reinforcement Learning for IoT Security: A Comprehensive Survey. *Upreti, A.*, +, *JIoT June 1, 2021 8693-8706*
- Reinforcement Learning Meets Wireless Networks: A Layering Perspective. *Chen, Y.*, +, *JIoT Jan. 1, 2021 85-111*
- Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y.*, +, *JIoT July 15, 2021 11163-11176*
- Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- Robust Learning-Enabled Intelligence for the Internet of Things: A Survey From the Perspectives of Noisy Data and Adversarial Examples. *Wu, Y.*, *JIoT June 15, 2021 9568-9579*
- S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S.*, +, *JIoT April 15, 2021 6975-6982*
- SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M.*, +, *JIoT March 1, 2021 3665-3677*
- Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P.*, +, *JIoT March 1, 2021 3287-3299*
- Secure Collaborative Deep Learning Against GAN Attacks in the Internet of Things. *Chen, Z.*, +, *JIoT April 1, 2021 5839-5849*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y.*, +, *JIoT March 1, 2021 3500-3511*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*
- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R.*, +, *JIoT April 15, 2021 6214-6221*
- ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications. *Abdel-Basset, M.*, +, *JIoT March 15, 2021 4969-4979*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y.*, +, *JIoT Sept. 15, 2021 14039-14050*
- The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. *Hammouti, H.E.*, +, *JIoT Sept. 15, 2021 14066-14079*
- Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y.*, +, *JIoT Feb. 1, 2021 1740-1748*
- Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrafilian, O.*, +, *JIoT June 15, 2021 9894-9904*
- Toward Computing Resource Reservation Scheduling in Industrial Internet of Things. *Liang, F.*, +, *JIoT May 15, 2021 8210-8222*
- Toward Direct Edge-to-Edge Transfer Learning for IoT-Enabled Edge Cameras. *Lu, C.*, +, *JIoT March 15, 2021 4931-4943*
- Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X.*, +, *JIoT Aug. 15, 2021 12902-12918*
- Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X.*, +, *JIoT March 15, 2021 4526-4539*
- Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*

UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z., +, JIoT Aug. 1, 2021 12289-12310*

Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach. *Yang, J., +, JIoT July 1, 2021 10693-10705*

Variational Autoencoder for Data Analytics in Internet of Things Based on Transfer Entropy. *Liang, S.D., JIoT Oct. 15, 2021 15267-15275*

Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C., +, JIoT June 15, 2021 9697-9705*

Voting-Based Multiagent Reinforcement Learning for Intelligent IoT. *Xu, Y., +, JIoT Feb. 15, 2021 2681-2693*

When Crowdsourcing Meets Unmanned Vehicles: Toward Cost-Effective Collaborative Urban Sensing via Deep Reinforcement Learning. *Ding, L., +, JIoT Aug. 1, 2021 12150-12162*

WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B., +, JIoT Sept. 15, 2021 13900-13913*

XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y., +, JIoT March 1, 2021 3446-3461*

Learning systems

Accurate Interpretation of the Online Learning Model for 6G-Enabled Internet of Things. *Huang, J., +, JIoT Oct. 15, 2021 15228-15239*

Learning Tracking Control for Cyber-Physical Systems. *Wu, C., +, JIoT June 1, 2021 9151-9163*

Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C., +, JIoT Nov. 1, 2021 15906-15918*

UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z., +, JIoT Aug. 1, 2021 12289-12310*

Least mean squares methods

Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P., +, JIoT April 1, 2021 6114-6126*

Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K., +, JIoT Feb. 1, 2021 1347-1357*

Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M., +, JIoT Aug. 15, 2021 12983-12998*

Least squares approximations

Comprehensive Analysis on Least-Squares Lateration for Indoor Positioning Systems. *Cengiz, K., JIoT Feb. 15, 2021 2842-2856*

Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malar-ski, K.M., +, JIoT April 15, 2021 6746-6756*

Lens antennas

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z., +, JIoT Jan. 1, 2021 418-427*

Life cycle costing

Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A., +, JIoT Oct. 1, 2021 14874-14895*

Lighting control

Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P., +, JIoT March 1, 2021 3384-3393*

Linear antenna arrays

Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X., +, JIoT Jan. 1, 2021 528-540*

Linear programming

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T., +, JIoT Oct. 15, 2021 15486-15499*

A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X., +, JIoT Aug. 1, 2021 12329-12338*

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S., +, JIoT Jan. 1, 2021 572-584*

Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J., +, JIoT March 1, 2021 3268-3275*

Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT. *Yu, W., +, JIoT May 1, 2021 7638-7648*

Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q., +, JIoT June 1, 2021 9164-9176*

Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. *Li, J., +, JIoT Jan. 15, 2021 734-749*

Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. *Chiang, Y., +, JIoT Oct. 1, 2021 14435-14446*

Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S., +, JIoT Feb. 15, 2021 2135-2149*

LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z., +, JIoT June 15, 2021 9814-9826*

Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y., +, JIoT Aug. 1, 2021 12266-12278*

Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W., +, JIoT Aug. 1, 2021 12398-12409*

NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z., +, JIoT Feb. 15, 2021 2364-2378*

On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T., +, JIoT Oct. 15, 2021 15334-15348*

Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C., JIoT Jan. 15, 2021 941-950*

Security-Aware Deployment Optimization of Cloud-Edge Systems in Industrial IoT. *Casola, V., +, JIoT Aug. 15, 2021 12724-12733*

TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J., +, JIoT Jan. 15, 2021 1001-1015*

Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B., +, JIoT Feb. 15, 2021 2943-2958*

Voting-Based Multiagent Reinforcement Learning for Intelligent IoT. *Xu, Y., +, JIoT Feb. 15, 2021 2681-2693*

Wireless Energy Sharing for Maximizing Lifetime of Linear Multihop Communications. *Choi, H., +, JIoT Aug. 1, 2021 12189-12202*

Wireless Power Transfer for Aircraft IoT Applications: System Design and Measurements. *Tavana, M., +, JIoT Aug. 1, 2021 11834-11846*

Linear systems

Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C., +, JIoT Jan. 1, 2021 262-277*

Linux

CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q., +, JIoT Dec. 1, 2021 16946-16962*

On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K., +, JIoT April 15, 2021 6815-6827*

Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N., +, JIoT Nov. 15, 2021 16379-16394*

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H., +, JIoT April 15, 2021 6692-6708*

Liquids

Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J., +, JIoT Nov. 1, 2021 16083-16095*

Lithium

Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *Evans, J.W., +, JIoT June 15, 2021 10047-10051*

Lithium compounds

Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I., +, JIoT May 15, 2021 8423-8436*

Load forecasting

Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M., +, JIoT Aug. 1, 2021 12422-12435*

Multiple Wavelet Convolutional Neural Network for Short-Term Load Forecasting. *Liao, Z., +, JIoT June 15, 2021 9730-9739*

Load modeling

FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*

Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahem, M.I., +, JIoT Dec. 1, 2021 17131-17146*

Load monitoring

Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahem, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*

Load regulation

False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*

Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack. *Li, Y.*, +, *JIoT Oct. 15, 2021 15522-15530*

Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P.*, +, *JIoT Nov. 15, 2021 16559-16570*

Loading

Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*

Local area networks

Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework. *Rauf, B.*, +, *JIoT April 15, 2021 6359-6371*

Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L.*, +, *JIoT April 1, 2021 5574-5584*

Location awareness

Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A.*, +, *JIoT Dec. 15, 2021 17495-17507*

Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K.*, +, *JIoT Dec. 1, 2021 17111-17119*

Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*

Location based services

Blockchain-Based Data Management and Edge-Assisted Trusted Cloaking Area Construction for Location Privacy Protection in Vehicular Networks. *Feng, J.*, +, *JIoT Feb. 15, 2021 2087-2101*

Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*

Toward Location-Enabled IoT (LE-IoT): IoT Positioning Techniques, Error Sources, and Error Mitigation. *Li, Y.*, +, *JIoT March 15, 2021 4035-4062*

Log normal distribution

Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A.*, +, *JIoT July 1, 2021 10665-10677*

Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J.*, +, *JIoT April 1, 2021 5531-5543*

Logic gates

A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M.*, +, *JIoT Nov. 1, 2021 15694-15703*

Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A.*, +, *JIoT Nov. 15, 2021 16692-16704*

Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P.*, +, *JIoT May 1, 2021 7562-7574*

Logistics

End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C.*, +, *JIoT Dec. 1, 2021 17043-17056*

Logistics data processing

Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*

Long Term Evolution

Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*

Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning. *Gu, X.*, +, *JIoT Sept. 1, 2021 13209-13221*

Enhanced Random Access for Massive-Machine-Type Communications. *Lee, B.*, +, *JIoT April 15, 2021 7046-7064*

Group Handover for Drone Base Stations. *Aydin, Y.*, +, *JIoT Sept. 15, 2021 13876-13887*

Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J.*, +, *JIoT April 1, 2021 5794-5805*

HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z.*, +, *JIoT July 1, 2021 10940-10952*

Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L.*, +, *JIoT May 1, 2021 7241-7251*

On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. *Zhang, F.*, +, *JIoT April 1, 2021 6101-6113*

Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C.*, +, *JIoT March 15, 2021 4788-4801*

Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*

SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V.*, +, *JIoT Nov. 15, 2021 16637-16652*

Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*

Loop antennas

Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V.*, +, *JIoT March 15, 2021 5009-5022*

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*

Low-power electronics

A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V.*, +, *JIoT July 15, 2021 11320-11328*

Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K.*, +, *JIoT March 15, 2021 4642-4656*

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H.*, +, *JIoT June 1, 2021 9219-9232*

MemEnc: A Lightweight, Low-Power, and Transparent Memory Encryption Engine for IoT. *Gupta, N.*, +, *JIoT May 1, 2021 7182-7191*

Lungs

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W.*, +, *JIoT April 1, 2021 5274-5284*

An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. *Ahmed, I.*, +, *JIoT Nov. 1, 2021 15855-15862*

Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J.*, +, *JIoT July 15, 2021 11450-11462*

Lyapunov methods

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*

Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*

RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*

M**Machine learning**

Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H.*, +, *JIoT Dec. 1, 2021 16749-16757*

Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C.*, +, *JIoT Nov. 1, 2021 15906-15918*

Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N.*, +, *JIoT Nov. 15, 2021 16379-16394*

- Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A., +, JIoT Dec. 15, 2021 17429-17435*
- Machine-to-machine communication**
- A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B., +, JIoT Feb. 1, 2021 1388-1405*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M., +, JIoT July 15, 2021 11135-11149*
- MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis. *Gao, J., +, JIoT June 15, 2021 9945-9957*
- MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P., +, JIoT May 1, 2021 7303-7315*
- On Fast Retrial for Two-Step Random Access in MTC. *Choi, J., JIoT Feb. 1, 2021 1428-1436*
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W., +, JIoT Sept. 1, 2021 13237-13250*
- Machine-to-machine communications**
- MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J., +, JIoT Dec. 15, 2021 17403-17416*
- Magnetic domains**
- SenseMag*: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K., +, JIoT Nov. 15, 2021 16666-16679*
- Magnetic field measurement**
- A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S., +, JIoT Dec. 1, 2021 17186-17198*
- Magnetic resonance**
- iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils. *Li, K., +, JIoT April 15, 2021 6637-6648*
- Magnetic sensors**
- SenseMag*: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K., +, JIoT Nov. 15, 2021 16666-16679*
- Magnetic separation**
- A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S., +, JIoT Dec. 1, 2021 17186-17198*
- Magnetometers**
- A Robust Heading Estimation Solution for Smartphone Multisensor-Integrated Indoor Positioning. *Yang, S., +, JIoT Dec. 1, 2021 17186-17198*
- Maintenance engineering**
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S., +, JIoT June 15, 2021 9484-9494*
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J., +, JIoT Dec. 1, 2021 16801-16813*
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A., +, JIoT June 1, 2021 9397-9406*
- Malware**
- CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q., +, JIoT Dec. 1, 2021 16946-16962*
- Securing IoT Devices Using Dynamic Power Management: Machine Learning Approach. *Chawla, N., +, JIoT Nov. 15, 2021 16379-16394*
- Manufacturing automation**
- Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S., +, JIoT Oct. 1, 2021 14431-14434*
- Manufacturing data processing**
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H., +, JIoT April 15, 2021 6940-6948*
- Manufacturing systems**
- Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A., +, JIoT July 15, 2021 11016-11040*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H., +, JIoT March 15, 2021 4668-4680*
- Toward Computing Resource Reservation Scheduling in Industrial Internet of Things. *Liang, F., +, JIoT May 15, 2021 8210-8222*
- Marine communication**
- AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L., +, JIoT May 15, 2021 7889-7901*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W., +, JIoT April 1, 2021 5374-5385*
- Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y., JIoT April 1, 2021 5657-5668*
- Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. *Wei, T., +, JIoT June 1, 2021 8910-8934*
- Marine engineering**
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C., +, JIoT June 1, 2021 9317-9329*
- Marine pollution**
- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L., +, JIoT Sept. 15, 2021 13805-13824*
- Marine robots**
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C., +, JIoT June 1, 2021 9317-9329*
- Marketing**
- A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z., +, JIoT Aug. 15, 2021 12658-12668*
- Markov processes**
- A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*
- Age of Information and Performance Analysis for UAV-Aided IoT Systems. *Han, R., +, JIoT Oct. 1, 2021 14447-14457*
- Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. *Li, R., +, JIoT Oct. 1, 2021 14471-14484*
- AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K., +, JIoT April 1, 2021 5264-5273*
- An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A., +, JIoT Oct. 1, 2021 14607-14622*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M., +, JIoT Sept. 1, 2021 13414-13424*
- An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M., +, JIoT Feb. 1, 2021 1572-1584*
- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A., +, JIoT Aug. 1, 2021 12242-12250*
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C., +, JIoT Feb. 15, 2021 2694-2711*
- Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J., +, JIoT March 1, 2021 3268-3275*
- CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*
- CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X., +, JIoT May 15, 2021 8191-8209*
- Context-Aware Adaptive Route Mutation Scheme: A Reinforcement Learning Approach. *Xu, C., +, JIoT Sept. 1, 2021 13528-13541*
- Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S., +, JIoT Oct. 15, 2021 15628-15638*
- Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B., +, JIoT March 1, 2021 3066-3074*
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*

- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D.*, +, *JIoT Nov. 15, 2021 16301-16312*
- Discrete-Time Queueing Model of Age of Information With Multiple Information Sources. *Akar, N.*, +, *JIoT Oct. 1, 2021 14531-14542*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T.*, +, *JIoT March 1, 2021 3224-3241*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R.*, +, *JIoT Jan. 1, 2021 345-356*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L.*, +, *JIoT May 15, 2021 7938-7953*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L.*, +, *JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S.*, +, *JIoT June 15, 2021 10209-10219*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q-Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A.*, +, *JIoT March 15, 2021 4461-4471*
- Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X.*, +, *JIoT April 1, 2021 6024-6038*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y.*, +, *JIoT Sept. 15, 2021 14051-14065*
- Modeling DRX for D2D Communication. *Moradi, F.*, +, *JIoT Feb. 15, 2021 2574-2584*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A.*, +, *JIoT March 1, 2021 3410-3421*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z.*, +, *JIoT Feb. 15, 2021 2364-2378*
- Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G.*, +, *JIoT Feb. 15, 2021 2483-2493*
- On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J.*, +, *JIoT Feb. 1, 2021 1492-1503*
- Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T.*, +, *JIoT April 15, 2021 6649-6664*
- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y.*, +, *JIoT Jan. 15, 2021 791-801*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X.*, +, *JIoT Sept. 15, 2021 14171-14186*
- Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C.*, +, *JIoT July 15, 2021 11249-11259*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*
- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C.*, +, *JIoT Jan. 1, 2021 262-277*
- Massive MIMO**
- A 3-D Nonstationary Wideband V2V GBFSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L.*, +, *JIoT Dec. 15, 2021 17622-17638*
- Mathematical analysis**
- Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y.*, +, *JIoT May 15, 2021 8173-8190*
- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*
- Network Service Chaining and Embedding With Provable Bounds. *Zheng, D.*, +, *JIoT May 1, 2021 7140-7151*
- Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *Abkenar, F.S.*, +, *JIoT March 1, 2021 3875-3884*
- Mathematical model**
- ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D.*, +, *JIoT Nov. 1, 2021 15977-15989*
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J.*, +, *JIoT Nov. 1, 2021 15839-15846*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H.*, +, *JIoT Nov. 1, 2021 15776-15784*
- Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K.*, +, *JIoT Dec. 15, 2021 17476-17494*
- Mathematical programming**
- Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*
- Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*
- Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K.*, +, *JIoT Aug. 1, 2021 12384-12397*
- Matrix algebra**
- A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S.*, +, *JIoT Oct. 15, 2021 15620-15627*
- Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X.*, +, *JIoT June 1, 2021 9233-9243*
- DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. *Ren, X.*, +, *JIoT Feb. 15, 2021 2775-2791*
- Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*
- Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y.*, +, *JIoT Sept. 1, 2021 13640-13651*
- Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B.*, +, *JIoT Oct. 15, 2021 15303-15316*
- Generalized Differential Index Modulation for Pilot-Free Communications. *Choi, J.*, +, *JIoT May 15, 2021 7973-7984*
- Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*
- Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F.*, +, *JIoT April 1, 2021 5211-5218*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*

Matrix multiplication

Chaotic Deep Network for Mobile D2D Communication. *Li, L., +, JIoT May 15, 2021 8078-8096*

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H., +, JIoT June 1, 2021 9219-9232*

Maximum entropy methods

Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*

Maximum likelihood detection

Generalized Differential Index Modulation for Pilot-Free Communications. *Choi, J., +, JIoT May 15, 2021 7973-7984*

Maximum likelihood estimation

A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network. *Zhao, S., +, JIoT June 1, 2021 9030-9044*

Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A., +, JIoT July 1, 2021 10665-10677*

Cognitive Neighbor Discovery With Directional Antennas in Self-Organizing IoT Networks. *Bai, W., +, JIoT April 15, 2021 6865-6877*

Optimal Localization With Sequential Pseudorange Measurements for Moving Users in a Time-Division Broadcast Positioning System. *Zhao, S., +, JIoT June 1, 2021 8883-8896*

RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S., +, JIoT Oct. 1, 2021 14860-14873*

Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y., +, JIoT April 15, 2021 6878-6892*

UAV-Aided Relative Localization of Terminals. *Liu, Y., +, JIoT Aug. 15, 2021 12999-13013*

Mean square error methods

A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T., +, JIoT May 1, 2021 7423-7436*

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L., +, JIoT Feb. 1, 2021 2066-2077*

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*

An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T., +, JIoT March 1, 2021 3170-3179*

AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L., +, JIoT May 15, 2021 7889-7901*

Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H., +, JIoT Oct. 1, 2021 14458-14470*

Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R., +, JIoT April 15, 2021 7065-7078*

IoT-Enabled Particulate Matter Monitoring and Forecasting Method Based on Cluster Analysis. *Yun, J., +, JIoT May 1, 2021 7380-7393*

Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y., +, JIoT May 15, 2021 8399-8410*

Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M., +, JIoT July 15, 2021 11732-11742*

Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K., +, JIoT Oct. 1, 2021 14810-14821*

Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y., +, JIoT Oct. 1, 2021 14999-15009*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z., +, JIoT Feb. 1, 2021 1585-1598*

Measurement

5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J., +, JIoT Aug. 1, 2021 12467-12475*

A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J., +, JIoT Nov. 1, 2021 15818-15828*

Measurement errors

A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C., +, JIoT March 1, 2021 3331-3345*

EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls. *Liu, M., +, JIoT April 1, 2021 5585-5598*

Mechanical engineering computing

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A., +, JIoT June 1, 2021 9397-9406*

Mechanical variables measurement

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S., +, JIoT March 1, 2021 3955-3971*

Mechatronics

Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C., +, JIoT June 1, 2021 9317-9329*

Medical computing

A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B., +, JIoT July 1, 2021 10248-10263*

An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. *Yang, W., +, JIoT March 15, 2021 5000-5008*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y., +, JIoT Nov. 1, 2021 15875-15883*

Efficient Policy-Hiding and Large Universe Attribute-Based Encryption With Public Traceability for Internet of Medical Things. *Zeng, P., +, JIoT July 1, 2021 10963-10972*

Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z., +, JIoT Sept. 15, 2021 13975-13990*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J., +, JIoT Aug. 1, 2021 11983-12003*

IoT-to-the-Rescue: A Survey of IoT Solutions for COVID-19-Like Pandemics. *Pathak, N., +, JIoT Sept. 1, 2021 13145-13164*

PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J., +, JIoT Sept. 1, 2021 13183-13195*

Medical diagnostic computing

A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M., +, JIoT July 1, 2021 10830-10842*

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

Medical diagnostic imaging

A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M., +, JIoT Nov. 1, 2021 15694-15703*

An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J., +, JIoT Nov. 1, 2021 15839-15846*

An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. *Ahmed, I., +, JIoT Nov. 1, 2021 15855-15862*

Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C., +, JIoT Dec. 1, 2021 16902-16910*

Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A., +, JIoT Nov. 1, 2021 15652-15662*

High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y., +, JIoT Dec. 1, 2021 16872-16879*

Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F., +, JIoT Nov. 1, 2021 15892-15905*

IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L., +, JIoT Dec. 1, 2021 16814-16824*

Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y., +, JIoT Nov. 1, 2021 15965-15976*

Medical disorders

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

Medical image processing

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J., +, JIoT March 15, 2021 4628-4641*

DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y., +, JIoT Feb. 1, 2021 1504-1518*

Medical information systems

A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M., +, JIoT July 1, 2021 10830-10842*

BEEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C., +, JIoT July 15, 2021 11743-11757*

Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R., +, JIoT April 15, 2021 6425-6436*

Fortified-Chain: A Blockchain-Based Framework for Security and Privacy-Assured Internet of Medical Things With Effective Access Control. *Egala, B.S., +, JIoT July 15, 2021 11717-11731*

Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System. *Li, C., +, JIoT May 1, 2021 7192-7202*

Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*

Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L., +, JIoT Jan. 1, 2021 156-167*

Medical robotics

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*

Medical services

A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M., +, JIoT Nov. 1, 2021 15694-15703*

An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H., +, JIoT Nov. 1, 2021 15829-15838*

An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z., +, JIoT Dec. 1, 2021 16779-16786*

Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A., +, JIoT Nov. 1, 2021 15704-15748*

Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H., +, JIoT Dec. 1, 2021 16749-16757*

Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B., +, JIoT Dec. 1, 2021 16853-16862*

Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T., +, JIoT Nov. 1, 2021 16002-16013*

Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M., +, JIoT Dec. 1, 2021 16718-16722*

Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F., +, JIoT Nov. 1, 2021 15892-15905*

LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M., +, JIoT Dec. 1, 2021 16863-16871*

MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A., +, JIoT Nov. 1, 2021 15762-15775*

Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z., +, JIoT Dec. 1, 2021 17000-17013*

NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things. *Awan, K.A., +, JIoT Nov. 1, 2021 15672-15682*

Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X., +, JIoT Nov. 1, 2021 15649-15651*

Medical signal detection

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. *Liu, W., +, JIoT March 15, 2021 4681-4696*

Medical signal processing

2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*

Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks. *Guo, L., +, JIoT March 1, 2021 3851-3863*

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

BED: A New Data Set for EEG-Based Biometrics. *Arnau-Gonzalez, P., +, JIoT Aug. 1, 2021 12219-12230*

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S., +, JIoT Sept. 1, 2021 13251-13265*

ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*

Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X., +, JIoT Nov. 15, 2021 16535-16547*

Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J., +, JIoT May 15, 2021 8304-8313*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A., +, JIoT July 1, 2021 10953-10962*

Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y., +, JIoT Oct. 1, 2021 14999-15009*

RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X., +, JIoT Aug. 15, 2021 12892-12901*

SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R., +, JIoT April 15, 2021 6214-6221*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*

WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B., +, JIoT Sept. 15, 2021 13900-13913*

Medicine

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*

Memory management

MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A., +, JIoT Dec. 15, 2021 17778-17789*

Memristors

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H.*, +, *JIoT June 1, 2021 9219-9232*

Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. *Fu, J.*, +, *JIoT June 15, 2021 9672-9682*

Merging

Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W.*, +, *JIoT Jan. 15, 2021 1016-1029*

Message authentication

A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*

A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs. *Wang, C.*, +, *JIoT Sept. 15, 2021 14248-14257*

A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y.*, +, *JIoT Sept. 15, 2021 13958-13974*

A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N.*, +, *JIoT Jan. 15, 2021 1123-1139*

A Secure Scheme Based on One-Way Associated Key Management Model in Wireless Sensor Networks. *Li, S.*, +, *JIoT Feb. 15, 2021 2920-2930*

ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W.*, +, *JIoT June 15, 2021 9622-9633*

Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M.*, +, *JIoT Sept. 15, 2021 13939-13949*

Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M.*, +, *JIoT Feb. 15, 2021 2116-2123*

Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*

Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y.*, +, *JIoT April 1, 2021 5619-5631*

Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A.*, +, *JIoT April 15, 2021 6406-6415*

On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N.*, +, *JIoT March 1, 2021 3255-3267*

Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*

PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*

SDN-Enabled Secure IoT Architecture. *Karmakar, K.K.*, +, *JIoT April 15, 2021 6549-6564*

Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*

SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*

Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H.*, +, *JIoT Dec. 15, 2021 17734-17746*

Message passing

Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*

Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*

Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*

Meta data

Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelinakis, F.*, +, *JIoT Jan. 15, 2021 1224-1242*

Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E.*, +, *JIoT Sept. 15, 2021 14308-14321*

Metadata

Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A.*, +, *JIoT Nov. 15, 2021 16548-16558*

Metaheuristics

Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*

IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*

The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L.*, +, *JIoT July 15, 2021 11503-11513*

Metals

Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B.*, +, *JIoT Dec. 15, 2021 17724-17733*

Meteorology

Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*

Mice

Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A.*, +, *JIoT Nov. 15, 2021 16680-16691*

Microcontrollers

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*

Leaky Nets: Recovering Embedded Neural Network Models and Inputs Through Simple Power and Timing Side-Channels—Attacks and Defenses. *Maji, S.*, +, *JIoT Aug. 1, 2021 12079-12092*

Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X.*, +, *JIoT Sept. 1, 2021 13737-13749*

Microfluidics

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

Micromechanical devices

Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S.*, +, *JIoT June 15, 2021 10085-10102*

Micromechanical resonators

Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S.*, +, *JIoT June 15, 2021 10085-10102*

Microorganisms

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F.*, +, *JIoT Aug. 15, 2021 12826-12846*

IoT-to-the-Rescue: A Survey of IoT Solutions for COVID-19-Like Pandemics. *Pathak, N.*, +, *JIoT Sept. 1, 2021 13145-13164*

Microphone arrays

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H.*, +, *JIoT Oct. 1, 2021 14658-14671*

Microphones

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W.*, +, *JIoT Feb. 15, 2021 2931-2942*

WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans. *Jun, H.*, +, *JIoT July 15, 2021 11690-11704*

Microprocessor chips

Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J.*, +, *JIoT March 1, 2021 3438-3445*

Microprocessors

Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A.*, +, *JIoT Dec. 15, 2021 17395-17402*

Microsensors

Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

Microstrip antennas

Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S.*, +, *JIoT April 1, 2021 5850-5865*

Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP. *Wan, G.C.*, +, *JIoT May 1, 2021 7476-7484*

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*

Microstrip lines

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Microwave detectors

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*

Microwave measurement

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*

Microwave power transmission

On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*

Middleware

An Approach to the Unified Management of Heterogeneous IoT Environments. *Armando, N.*, +, *JIoT April 15, 2021 6916-6927*

In.IoT—A New Middleware for Internet of Things. *da Cruz, M.A.A.*, +, *JIoT May 15, 2021 7902-7911*

Internet of Things for Agricultural Applications: The State of the Art. *Ojha, T.*, +, *JIoT July 15, 2021 10973-10997*

Multilayer Internet-of-Things Middleware Based on Knowledge Graph. *Xie, C.*, +, *JIoT Feb. 15, 2021 2635-2648*

Millimeter wave antenna arrays

Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D.*, +, *JIoT May 15, 2021 8603-8615*

Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021 528-540*

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Millimeter wave antennas

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z.*, +, *JIoT Jan. 1, 2021 418-427*

Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*

Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N.*, +, *JIoT March 15, 2021 4711-4722*

Millimeter wave communication

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D.*, +, *JIoT Sept. 1, 2021 13291-13305*

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A.*, +, *JIoT Oct. 1, 2021 14607-14622*

Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J.*, +, *JIoT Jan. 1, 2021 244-261*

Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D.*, +, *JIoT May 15, 2021 8603-8615*

Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*

Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Feb. 1, 2021 1294-1307*

Millimeter wave imaging

mmWrite: Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. *Regani, S.D.*, +, *JIoT Sept. 1, 2021 13291-13305*

mmEye: Super-Resolution Millimeter Wave Imaging. *Zhang, F.*, +, *JIoT April 15, 2021 6995-7008*

Millimeter wave measurement

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z.*, +, *JIoT Jan. 1, 2021 418-427*

Millimeter wave propagation

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A.*, +, *JIoT Oct. 1, 2021 14607-14622*

Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*

Millimeter wave receivers

Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*

MIMO

A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H.*, +, *JIoT June 15, 2021 9865-9877*

A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H.*, +, *JIoT Oct. 1, 2021 14705-14718*

Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M.*, *JIoT Feb. 15, 2021 2585-2602*

Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*

Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*

Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*

Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*

Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*

Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M.*, +, *JIoT Oct. 15, 2021 15205-15215*

Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M.*, *JIoT May 1, 2021 7252-7269*

Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*

Guest Editorial Special Issue on 6G-Enabled Internet of Things. *Liang, Q.*, +, *JIoT Oct. 15, 2021 15037-15040*

Massive MIMO for High-Accuracy Target Localization and Tracking. *Zeng, X.*, +, *JIoT June 15, 2021 10131-10145*

Massive MIMO for Underwater Industrial Internet of Things Networks. *Lee, B.M.*, *JIoT Oct. 15, 2021 15542-15552*

Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J.*, +, *JIoT Oct. 15, 2021 15126-15139*

MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J.*, +, *JIoT Oct. 15, 2021 15512-15521*

Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y.*, +, *JIoT Nov. 1, 2021 16023-16034*

Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y.*, +, *JIoT Oct. 15, 2021 15148-15159*

On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*

Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications. *Nie, X.*, +, *JIoT Oct. 15, 2021 15317-15333*

Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J.*, +, *JIoT Oct. 15, 2021 15284-15291*

- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H.*, +, *JIoT April 1, 2021 5632-5644*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*
- Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z.*, +, *JIoT April 15, 2021 6385-6392*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q.*, +, *JIoT June 15, 2021 10146-10159*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*
- Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*
- MIMO radar**
- Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B.*, +, *JIoT Oct. 15, 2021 15303-15316*
- Minimax techniques**
- A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*
- Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications. *Nie, X.*, +, *JIoT Oct. 15, 2021 15317-15333*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Minimization**
- AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L.*, +, *JIoT May 15, 2021 7889-7901*
- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H.*, +, *JIoT Jan. 15, 2021 1211-1223*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing. *Zhang, J.*, +, *JIoT Feb. 15, 2021 3027-3041*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L.*, +, *JIoT April 15, 2021 6677-6691*
- Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D.*, +, *JIoT July 15, 2021 11415-11426*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L.*, +, *JIoT May 15, 2021 8107-8118*
- Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G.*, +, *JIoT Feb. 15, 2021 2483-2493*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L.*, +, *JIoT Dec. 1, 2021 17057-17070*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y.*, +, *JIoT Sept. 1, 2021 13316-13327*
- The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Use Case. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multiscale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*
- Minimum shift keying**
- An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*
- Mining industry**
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T.*, +, *JIoT June 15, 2021 9473-9483*
- MISO communication**
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021 8399-8410*
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*
- Mixture models**
- A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S.*, +, *JIoT April 1, 2021 5607-5618*
- Mobile ad hoc networks**
- Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. *You, W.*, +, *JIoT Jan. 15, 2021 695-707*
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X.*, +, *JIoT Nov. 15, 2021 16598-16612*
- Mobile agents**
- Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y.*, +, *JIoT May 15, 2021 8223-8233*
- Mobile communication**
- A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*
- Joint Optimization of UAV 3-D Placement and Path-Loss Factor for Energy-Efficient Maximal Coverage. *Shakoor, S.*, +, *JIoT June 15, 2021 9776-9786*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W.*, +, *JIoT Aug. 15, 2021 12758-12770*

The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L., +, JIoT March 1, 2021 3743-3757*

Mobile computing

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*

A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*

A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X., +, JIoT Feb. 15, 2021 2431-2443*

A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B., +, JIoT Sept. 1, 2021 13567-13581*

A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs. *Zhu, Z., +, JIoT March 1, 2021 3831-3850*

A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*

A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S., +, JIoT Feb. 1, 2021 1358-1372*

A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A., +, JIoT Aug. 15, 2021 13065-13076*

A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. *Zhou, B., +, JIoT May 1, 2021 7203-7213*

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z., +, JIoT June 1, 2021 9122-9138*

A Security Awareness and Protection System for 5G Smart Healthcare Based on Zero-Trust Architecture. *Chen, B., +, JIoT July 1, 2021 10248-10263*

A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G., +, JIoT Feb. 1, 2021 1971-1984*

Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z., +, JIoT Sept. 15, 2021 14322-14337*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*

ALAM: Anonymous Lightweight Authentication Mechanism for SDN-Enabled Smart Homes. *Iqbal, W., +, JIoT June 15, 2021 9622-9633*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*

An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z., +, JIoT Oct. 1, 2021 14756-14772*

An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y., +, JIoT April 15, 2021 6789-6799*

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N., +, JIoT Jan. 15, 2021 869-880*

An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M., +, JIoT Feb. 1, 2021 1572-1584*

Automatic Permission Optimization Framework for Privacy Enhancement of Mobile Applications. *Qu, Y., +, JIoT May 1, 2021 7394-7406*

Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X., +, JIoT June 1, 2021 9233-9243*

BEEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C., +, JIoT July 15, 2021 11743-11757*

BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. *Xu, H., +, JIoT March 1, 2021 3915-3929*

Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J., +, JIoT Oct. 1, 2021 14971-14984*

Blockchain-Based Data Management and Edge-Assisted Trusted Cloaking Area Construction for Location Privacy Protection in Vehicular Networks. *Feng, J., +, JIoT Feb. 15, 2021 2087-2101*

Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S., +, JIoT Oct. 1, 2021 14746-14755*

Blockchain-Enabled Secure Data Sharing Scheme in Mobile-Edge Computing: An Asynchronous Advantage Actor-Critic Learning Approach. *Liu, L., +, JIoT Feb. 15, 2021 2342-2353*

Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices. *Choi, J., +, JIoT Jan. 1, 2021 541-554*

CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z., +, JIoT April 15, 2021 6733-6745*

CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X., +, JIoT May 15, 2021 8191-8209*

Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*

Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M., +, JIoT Aug. 1, 2021 12203-12218*

ComFlex: Composable and Flexible Resource Management for the IoT. *Lee, G., +, JIoT Nov. 15, 2021 16406-16417*

Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L., +, JIoT July 1, 2021 10731-10744*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y., +, JIoT Nov. 1, 2021 15875-15883*

Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q., +, JIoT June 1, 2021 9164-9176*

Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services. *Wang, L., +, JIoT May 15, 2021 8097-8106*

Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G., +, JIoT Sept. 1, 2021 13723-13736*

Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X., +, JIoT July 15, 2021 11758-11772*

Cost-Effective Active Sparse Urban Sensing: Adversarial Autoencoder Approach. *Zhu, K., +, JIoT Aug. 1, 2021 12064-12078*

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H., +, JIoT Oct. 1, 2021 14658-14671*

D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y., +, JIoT Aug. 15, 2021 12490-12504*

DFOPS: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. *Tarekegn, G.B., +, JIoT March 1, 2021 3717-3729*

Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M., +, JIoT April 1, 2021 5953-5972*

Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L., +, JIoT March 15, 2021 4317-4328*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J., +, JIoT May 1, 2021 7649-7660*

Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I., +, JIoT March 1, 2021 3143-3156*

Delay-Aware Green Routing for Mobile-Sink-Based Wireless Sensor Networks. *Jain, S., +, JIoT March 15, 2021 4882-4892*

Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F., +, JIoT March 15, 2021 4228-4249*

Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelelinakis, F., +, JIoT Jan. 15, 2021 1224-1242*

Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X., +, JIoT July 1, 2021 10264-10279*

Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z., +, JIoT April 1, 2021 5298-5308*

Distributed Task Offloading Optimization With Queueing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J., +, JIoT Aug. 1, 2021 12311-12328*

Distributed TDMA for Mobile UWB Network Localization. *Cao, Y., +, JIoT Sept. 1, 2021 13449-13464*

- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R., +, JIoT Jan. 1, 2021 345-356*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y., +, JIoT May 1, 2021 7450-7465*
- Dynamically Transient Social Community Detection for Mobile Social Networks. *Bi, X., +, JIoT Feb. 1, 2021 1282-1293*
- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*
- EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing. *Wu, H., +, JIoT Feb. 15, 2021 2163-2176*
- Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms. *Zhang, Y., +, JIoT Feb. 1, 2021 1334-1346*
- Enabling Drones in the Internet of Things With Decentralized Blockchain-Based Security. *Yazdinejad, A., +, JIoT April 15, 2021 6406-6415*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J., +, JIoT May 15, 2021 8570-8584*
- Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K., +, JIoT April 15, 2021 6709-6719*
- Energy-Efficient Deployment of IoT Applications in Edge-Based Infrastructures: A Software Product Line Approach. *Canete, A., +, JIoT Nov. 15, 2021 16427-16439*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L., +, JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X., +, JIoT July 1, 2021 10843-10856*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*
- Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K., +, JIoT Oct. 1, 2021 14589-14606*
- EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls. *Liu, M., +, JIoT April 1, 2021 5585-5598*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C., +, JIoT Aug. 15, 2021 12806-12825*
- Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X., +, JIoT Aug. 15, 2021 13115-13125*
- From Centralized Management to Edge Collaboration: A Privacy-Preserving Task Assignment Framework for Mobile Crowdsensing. *Wu, D., +, JIoT March 15, 2021 4579-4589*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K., +, JIoT July 1, 2021 10308-10317*
- Hierarchical Security Paradigm for IoT Multiaccess Edge Computing. *Singh, J., +, JIoT April 1, 2021 5794-5805*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z., +, JIoT July 1, 2021 10940-10952*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N., +, JIoT May 15, 2021 8259-8278*
- Incentivizing Platform-User Interactions for Crowdsensing. *Xiang, C., +, JIoT May 15, 2021 8314-8327*
- Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y., +, JIoT Feb. 1, 2021 1544-1556*
- InPPTD: A Lightweight Incentive-Based Privacy-Preserving Truth Discovery for Crowdsensing Systems. *Xue, K., +, JIoT March 15, 2021 4305-4316*
- Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. *Han, P., +, JIoT July 1, 2021 10557-10572*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D., +, JIoT Aug. 15, 2021 12855-12879*
- Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S., +, JIoT Feb. 15, 2021 2135-2149*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J., +, JIoT March 1, 2021 3462-3475*
- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T., +, JIoT Sept. 15, 2021 14418-14430*
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X., +, JIoT June 15, 2021 9511-9522*
- Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. *You, W., +, JIoT Jan. 15, 2021 695-707*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F., +, JIoT Sept. 15, 2021 14156-14170*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D., +, JIoT July 15, 2021 11487-11502*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W., +, JIoT Aug. 15, 2021 12758-12770*
- Keeping Cell Selection Model Up-to-Date to Adapt to Time-Dependent Environment in Sparse Mobile Crowdsensing. *Han, L., +, JIoT Sept. 15, 2021 13914-13925*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L., +, JIoT April 15, 2021 6677-6691*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H., +, JIoT April 1, 2021 5250-5263*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J., +, JIoT Aug. 1, 2021 12350-12359*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y., +, JIoT Sept. 15, 2021 14051-14065*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T., +, JIoT Feb. 1, 2021 1687-1701*
- Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X., +, JIoT June 15, 2021 9763-9773*
- Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing. *Zhu, X., +, JIoT Oct. 15, 2021 15582-15595*
- Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City. *Hu, H., +, JIoT June 15, 2021 9539-9548*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z., +, JIoT Feb. 15, 2021 2364-2378*
- NOSCM: A Novel Offloading Strategy for NOMA-Enabled Hierarchical Small Cell Mobile-Edge Computing. *Yang, L., +, JIoT May 15, 2021 8107-8118*
- Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y., +, JIoT Oct. 15, 2021 15382-15395*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y., JIoT Jan. 15, 2021 962-975*
- Object Tracking by the Least Spatiotemporal Searches. *Yu, Z., +, JIoT Aug. 15, 2021 12934-12946*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B., +, JIoT June 15, 2021 9878-9893*
- Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G., +, JIoT Feb. 15, 2021 2483-2493*
- Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T., +, JIoT April 15, 2021 6649-6664*
- Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. *Dong, X., +, JIoT May 15, 2021 8032-8043*

- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*
- Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D.*, +, *JIoT Sept. 1, 2021 13196-13208*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X.*, +, *JIoT Feb. 15, 2021 2722-2735*
- PGRide: Privacy-Preserving Group Ridesharing Matching in Online Ride Hailing Services. *Yu, H.*, +, *JIoT April 1, 2021 5722-5735*
- PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. *Wang, X.*, +, *JIoT July 1, 2021 10288-10298*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*
- Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*
- Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S.*, +, *JIoT April 15, 2021 6975-6982*
- SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*
- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W.*, +, *JIoT May 15, 2021 8119-8132*
- Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*
- Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N.*, +, *JIoT March 15, 2021 4711-4722*
- Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey. *Abuhamad, M.*, +, *JIoT Jan. 1, 2021 65-84*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*
- Systematically Quantifying IoT Privacy Leakage in Mobile Networks. *Hui, S.*, +, *JIoT May 1, 2021 7115-7125*
- Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K.*, +, *JIoT Aug. 1, 2021 12384-12397*
- Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*
- Toward Privacy-Preserving Task Assignment for Fully Distributed Spatial Crowdsourcing. *Li, M.*, +, *JIoT Sept. 15, 2021 13991-14002*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*
- User-Centric Computation Offloading for Edge Computing. *Deng, X.*, +, *JIoT Aug. 15, 2021 12559-12568*
- Verifiable, Reliable, and Privacy-Preserving Data Aggregation in Fog-Assisted Mobile Crowdsensing. *Yan, X.*, +, *JIoT Sept. 15, 2021 14127-14140*
- When Crowdsourcing Meets Unmanned Vehicles: Toward Cost-Effective Collaborative Urban Sensing via Deep Reinforcement Learning. *Ding, L.*, +, *JIoT Aug. 1, 2021 12150-12162*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*
- Mobile handsets**
- BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. *Xu, H.*, +, *JIoT March 1, 2021 3915-3929*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H.*, +, *JIoT Dec. 15, 2021 17541-17556*
- Modeling DRX for D2D Communication. *Moradi, F.*, +, *JIoT Feb. 15, 2021 2574-2584*
- Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J.*, +, *JIoT Nov. 1, 2021 15663-15671*
- Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A.*, +, *JIoT Nov. 15, 2021 16613-16622*
- Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*
- Mobile nodes**
- Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G.*, +, *JIoT Dec. 15, 2021 17747-17761*
- Mobile radio**
- Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*
- t , K -Sweep Coverage With Mobile Sensor Nodes in Wireless Sensor Networks. *Liu, C.*, +, *JIoT Sept. 15, 2021 13888-13899*
- A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X.*, +, *JIoT Feb. 15, 2021 2431-2443*
- A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*
- Age-of-Information-Based Host Selection for Mobile User Provided Networks. *Nakayama, Y.*, +, *JIoT Jan. 15, 2021 672-683*
- Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J.*, +, *JIoT April 1, 2021 5531-5543*
- Chaotic Deep Network for Mobile D2D Communication. *Li, L.*, +, *JIoT May 15, 2021 8078-8096*
- Distributed TDMA for Mobile UWB Network Localization. *Cao, Y.*, +, *JIoT Sept. 1, 2021 13449-13464*
- Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. *Kouroshnezhad, S.*, +, *JIoT April 1, 2021 5202-5210*
- H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*

Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M.*, +, *JIoT Sept. 1, 2021 13425-13438*

Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*

Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*

UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*

Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Mobile robots

A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J.*, +, *JIoT March 15, 2021 4403-4416*

A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S.*, +, *JIoT Jan. 15, 2021 1154-1168*

An Ontology-Based System to Collect WSN-UAS Data Effectively. *Martin-Lammerding, D.*, +, *JIoT March 1, 2021 3636-3652*

AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z.*, +, *JIoT Oct. 1, 2021 14559-14571*

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*

Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. *Zhao, L.*, +, *JIoT March 1, 2021 3211-3223*

CoFF: Cooperative Spatial Feature Fusion for 3-D Object Detection on Autonomous Vehicles. *Guo, J.*, +, *JIoT July 15, 2021 11078-11087*

Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*

Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y.*, +, *JIoT March 15, 2021 4906-4919*

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P.*, +, *JIoT March 15, 2021 4448-4460*

Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*

Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W.*, +, *JIoT July 1, 2021 10573-10582*

Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D.*, +, *JIoT Feb. 15, 2021 2959-2975*

Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*

Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y.*, +, *JIoT Jan. 15, 2021 1183-1196*

Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R.*, +, *JIoT Aug. 15, 2021 12955-12967*

Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. *Ouyang, B.*, +, *JIoT Sept. 15, 2021 14013-14027*

iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils. *Li, K.*, +, *JIoT April 15, 2021 6637-6648*

Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y.*, +, *JIoT May 15, 2021 8488-8503*

LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*

Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y.*, +, *JIoT July 15, 2021 11427-11439*

Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*

Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X.*, +, *JIoT March 15, 2021 4980-4990*

Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y.*, +, *JIoT Sept. 15, 2021 14039-14050*

Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrifilian, O.*, +, *JIoT June 15, 2021 9894-9904*

Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X.*, +, *JIoT March 15, 2021 4526-4539*

Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*

Mobile satellite communication

5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X.*, +, *JIoT Sept. 15, 2021 14399-14417*

Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*

Mobility management (mobile radio)

5G Embraces Satellites for 6G Ubiquitous IoT: Basic Models for Integrated Satellite Terrestrial Networks. *Fang, X.*, +, *JIoT Sept. 15, 2021 14399-14417*

Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X.*, +, *JIoT July 1, 2021 10911-10921*

Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K.*, +, *JIoT Oct. 1, 2021 14589-14606*

Group Handover for Drone Base Stations. *Aydin, Y.*, +, *JIoT Sept. 15, 2021 13876-13887*

Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J.*, +, *JIoT Oct. 1, 2021 14773-14786*

Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*

Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X.*, +, *JIoT April 1, 2021 6024-6038*

Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M.*, +, *JIoT July 1, 2021 10745-10754*

On Mobility-Aware and Channel-Randomness-Adaptive Optimal Neighbor Discovery for Vehicular Networks. *Zhu, L.*, +, *JIoT April 15, 2021 6828-6839*

Secure Localization and Velocity Estimation in Mobile IoT Networks With Malicious Attacks. *Li, Y.*, +, *JIoT April 15, 2021 6878-6892*

SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks. *Yang, N.*, +, *JIoT Aug. 1, 2021 12119-12136*

When Crowdsourcing Meets Unmanned Vehicles: Toward Cost-Effective Collaborative Urban Sensing via Deep Reinforcement Learning. *Ding, L.*, +, *JIoT Aug. 1, 2021 12150-12162*

Model checking

Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G.*, +, *JIoT Dec. 1, 2021 17199-17210*

Modulation

Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B.*, +, *JIoT Oct. 15, 2021 15140-15147*

Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M.*, +, *JIoT Dec. 15, 2021 17611-17621*

Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*

Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y.*, +, *JIoT Nov. 1, 2021 16023-16034*

Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*

Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z.*, +, *JIoT April 15, 2021 6385-6392*

Modulation coding

- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*
- Generalized Differential Index Modulation for Pilot-Free Communications. *Choi, J.*, +, *JIoT May 15, 2021 7973-7984*
- LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. *Guo, X.*, +, *JIoT April 15, 2021 6665-6676*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*

Moisture

- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*

Monitoring

- 5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J.*, +, *JIoT Aug. 1, 2021 12467-12475*
- SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K.*, +, *JIoT Nov. 15, 2021 16666-16679*
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J.*, +, *JIoT Nov. 1, 2021 15839-15846*
- An Internet-of-Medical-Things-Enabled Edge Computing Framework for Tackling COVID-19. *Rahman, M.A.*, +, *JIoT Nov. 1, 2021 15847-15854*
- Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K.*, +, *JIoT Nov. 1, 2021 16035-16046*
- Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A.*, +, *JIoT Nov. 1, 2021 15704-15748*
- Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B.*, +, *JIoT Dec. 15, 2021 17724-17733*
- Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H.*, +, *JIoT Dec. 1, 2021 16749-16757*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiyah, A.K.*, +, *JIoT June 15, 2021 9753-9762*
- HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N.*, +, *JIoT Dec. 1, 2021 16845-16852*
- Internet-of-Things-Enabled Data Fusion Method for Sleep Healthcare Applications. *Yang, F.*, +, *JIoT Nov. 1, 2021 15892-15905*
- IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring. *Marques, J.A.L.*, +, *JIoT Dec. 1, 2021 16814-16824*
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q.*, +, *JIoT Dec. 1, 2021 16734-16748*
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R.*, +, *JIoT Dec. 1, 2021 16825-16834*
- mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Nov. 15, 2021 16623-16636*
- Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J.*, +, *JIoT Nov. 1, 2021 16083-16095*
- NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things. *Awan, K.A.*, +, *JIoT Nov. 1, 2021 15672-15682*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L.*, +, *JIoT Dec. 1, 2021 17057-17070*
- Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X.*, +, *JIoT Nov. 1, 2021 15929-15938*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*
- Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J.*, +, *JIoT Dec. 1, 2021 17029-17042*

Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P.*, +, *JIoT Dec. 15, 2021 17557-17567*

Monte Carlo methods

- A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things. *Khan, F.*, +, *JIoT Oct. 1, 2021 14835-14844*
- Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*
- Digital Twin for Federated Analytics Using a Bayesian Approach. *Chen, D.*, +, *JIoT Nov. 15, 2021 16301-16312*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*
- On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O.*, +, *JIoT July 15, 2021 11581-11593*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U.*, +, *JIoT Jan. 1, 2021 443-457*

Motion control

Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*

Motion estimation

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H.*, +, *JIoT Oct. 1, 2021 14658-14671*

Motion pictures

Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G.*, +, *JIoT Nov. 1, 2021 16165-16180*

Moving average processes

A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*

Multi-access systems

- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A.*, +, *JIoT Aug. 1, 2021 11860-11876*
- Energy-Latency Tradeoff for Computation Offloading in UAV-Assisted Multiaccess Edge Computing System. *Zhang, K.*, +, *JIoT April 15, 2021 6709-6719*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M.*, *JIoT May 1, 2021 7252-7269*
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021 8399-8410*
- Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*
- Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D.*, +, *JIoT Sept. 1, 2021 13196-13208*
- Performance Analysis and Optimization of NOMA With HARQ for Short Packet Communications in Massive IoT. *Ghanami, F.*, +, *JIoT March 15, 2021 4736-4748*
- Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X.*, +, *JIoT Sept. 15, 2021 14171-14186*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M.*, +, *JIoT Sept. 1, 2021 13425-13438*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L.*, +, *JIoT July 15, 2021 11233-11248*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- Multi-agent systems**
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H.*, +, *JIoT April 1, 2021 5360-5373*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*
- Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B.*, +, *JIoT March 1, 2021 3066-3074*
- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, L.*, +, *JIoT March 1, 2021 3143-3156*
- Distributed Task Offloading Optimization With Queuing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J.*, +, *JIoT Aug. 1, 2021 12311-12328*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S.*, +, *JIoT Jan. 15, 2021 976-988*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X.*, +, *JIoT July 1, 2021 10843-10856*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Hierarchical Pricing Mechanism With Financial Stability for Decentralized Crowdsourcing: A Smart Contract Approach. *Zhang, W.*, +, *JIoT Jan. 15, 2021 750-765*
- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q -Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*
- Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y.*, +, *JIoT July 15, 2021 11427-11439*
- Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X.*, +, *JIoT June 15, 2021 9763-9773*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A.*, +, *JIoT March 1, 2021 3410-3421*
- NOMA-Enabled Cooperative Computation Offloading for Blockchain-Empowered Internet of Things: A Learning Approach. *Li, Z.*, +, *JIoT Feb. 15, 2021 2364-2378*
- Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT. *Chen, S.*, +, *JIoT March 1, 2021 3276-3286*
- Voting-Based Multiagent Reinforcement Learning for Intelligent IoT. *Xu, Y.*, +, *JIoT Feb. 15, 2021 2681-2693*
- Multi-robot systems**
- A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J.*, +, *JIoT March 15, 2021 4403-4416*
- An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J.*, +, *JIoT Oct. 15, 2021 15372-15381*
- Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y.*, +, *JIoT March 15, 2021 4906-4919*
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J.*, +, *JIoT Oct. 15, 2021 15441-15455*
- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*
- Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. *Abichandani, P.*, +, *JIoT Feb. 1, 2021 1783-1796*
- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C.*, +, *JIoT Jan. 1, 2021 262-277*
- Multiaccess communication**
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z.*, +, *JIoT Dec. 15, 2021 17290-17307*
- Multicast communication**
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- Multicast protocols**
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangatah, A.K.*, +, *JIoT June 15, 2021 9753-9762*
- Multifrequency antennas**
- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*
- Multilayer perceptrons**
- Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N.*, +, *JIoT May 1, 2021 7270-7278*

Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*

Multimedia communication

Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. *Wang, M.*, +, *JIoT Feb. 1, 2021 1662-1673*

Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H.*, +, *JIoT April 1, 2021 5141-5148*

Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*

Multimedia computing

Compressing CNNs Using Multilevel Filter Pruning for the Edge Nodes of Multimedia Internet of Things. *Liu, X.*, +, *JIoT July 15, 2021 11041-11051*

VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*

Multipath channels

3GPP Standardized 5G Channel Model for IIoT Scenarios: A Survey. *Jiang, T.*, +, *JIoT June 1, 2021 8799-8815*

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D.*, +, *JIoT Aug. 15, 2021 12880-12891*

A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X.*, +, *JIoT July 15, 2021 11276-11289*

Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A.*, +, *JIoT July 1, 2021 10665-10677*

Improving GPS Code Phase Positioning Accuracy in Urban Environments Using Machine Learning. *Sun, R.*, +, *JIoT April 15, 2021 7065-7078*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021 3904-3914*

Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. *Shi, W.*, +, *JIoT Oct. 1, 2021 14572-14588*

Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L.*, +, *JIoT May 15, 2021 8246-8258*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Multiplexing

Resonant Beam Communications With Echo Interference Elimination. *Xiong, M.*, +, *JIoT Feb. 15, 2021 2875-2885*

Multiprocessing systems

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H.*, +, *JIoT April 15, 2021 6692-6708*

Multiuser channels

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*

Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*

Multiuser detection

Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*

Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

Muscles

sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q.*, +, *JIoT Dec. 1, 2021 16835-16844*

Music

MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*

N

Naive Bayes methods

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*

Nakagami channels

Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*

On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. *Farhat, J.*, +, *JIoT Oct. 1, 2021 14672-14682*

Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*

Nanobioscience

Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X.*, +, *JIoT Nov. 1, 2021 15939-15952*

Nanosensors

Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J.*, +, *JIoT July 15, 2021 11450-11462*

National security

An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J.*, +, *JIoT Oct. 15, 2021 15372-15381*

Natural gas technology

Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W.*, +, *JIoT April 15, 2021 6305-6312*

Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing. *Miao, Y.*, +, *JIoT Feb. 15, 2021 2289-2299*

Natural language processing

An Evolutionary Study of IoT Malware. *Wang, H.*, +, *JIoT Oct. 15, 2021 15422-15440*

Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*

Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J.*, +, *JIoT May 15, 2021 7789-7817*

HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*

Navier-Stokes equations

Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M.*, +, *JIoT June 1, 2021 9373-9382*

Navigation

Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T.*, +, *JIoT March 1, 2021 3224-3241*

S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S.*, +, *JIoT April 15, 2021 6975-6982*

Near-field communication

Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*

You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1197-1210*

Nearest neighbor methods

Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K.*, +, *JIoT June 1, 2021 9257-9267*

CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z.*, +, *JIoT March 1, 2021 3422-3437*

IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*

Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*

Network analyzers

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M., +, JIoT March 15, 2021 5101-5110*

Network architecture

Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J., +, JIoT Nov. 15, 2021 16290-16300*

Network coding

Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J., +, JIoT Jan. 1, 2021 244-261*

On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J., +, JIoT Feb. 1, 2021 1492-1503*

Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F., +, JIoT April 1, 2021 5211-5218*

Network interfaces

ERFR-CTC: Exploiting Residual Frequency Resources in Physical-Level Cross-Technology Communication. *Yao, S., +, JIoT April 1, 2021 6062-6076*

Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. *Yang, Y., +, JIoT Sept. 15, 2021 14276-14286*

Network servers

A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R., +, JIoT Feb. 15, 2021 2670-2680*

Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L., +, JIoT July 15, 2021 11548-11560*

E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L., +, JIoT July 15, 2021 11290-11304*

G2F: A Secure User Authentication for Rapid Smart Home IoT Management. *Luo, H., +, JIoT July 1, 2021 10884-10895*

Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J., +, JIoT Nov. 15, 2021 16313-16325*

Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. *Yang, G., +, JIoT Feb. 15, 2021 2483-2493*

Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach. *Yuan, H., +, JIoT Oct. 1, 2021 14985-14998*

Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C., +, JIoT June 1, 2021 9344-9358*

Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X., +, JIoT Feb. 15, 2021 2722-2735*

Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M., +, JIoT Sept. 1, 2021 13425-13438*

When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*

Network theory (graphs)

A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J., +, JIoT May 1, 2021 7521-7530*

ComPath: User Interest Mining in Heterogeneous Signed Social Networks for Internet of People. *Dhelim, S., +, JIoT April 15, 2021 7024-7035*

Efficient Approaches to Top-r Influential Community Search. *Luo, W., +, JIoT Aug. 15, 2021 12650-12657*

Network topology

Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A., +, JIoT Dec. 15, 2021 17429-17435*

Networked control systems

Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X., +, JIoT Oct. 1, 2021 14501-14513*

On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W., +, JIoT Jan. 15, 2021 723-733*

Neural network architecture

BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S., +, JIoT Sept. 1, 2021 13251-13265*

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P., +, JIoT March 15, 2021 4448-4460*

Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L., +, JIoT July 1, 2021 10922-10939*

LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z., +, JIoT April 1, 2021 6012-6023*

Neural networks

A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T., +, JIoT May 1, 2021 7423-7436*

A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P., +, JIoT July 15, 2021 11476-11486*

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L., +, JIoT Feb. 1, 2021 2066-2077*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*

AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K., +, JIoT April 1, 2021 5264-5273*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F., +, JIoT Oct. 1, 2021 15024-15036*

An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L., +, JIoT July 15, 2021 11357-11367*

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y., +, JIoT Aug. 1, 2021 12231-12241*

Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H., +, JIoT Jan. 1, 2021 197-210*

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*

Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*

Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N., +, JIoT May 1, 2021 7270-7278*

Cost-Effective Bad Synchronophaser Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L., +, JIoT Feb. 1, 2021 2027-2039*

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P., +, JIoT March 15, 2021 4448-4460*

Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*

Deep-Learning-Enabled Security Issues in the Internet of Things. *Ly, Z., +, JIoT June 15, 2021 9531-9538*

Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X., +, JIoT Aug. 15, 2021 12588-12596*

Deep-Reinforcement-Learning-Based User Profile Perturbation for Privacy-Aware Recommendation. *Xiao, Y., +, JIoT March 15, 2021 4560-4568*

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*

Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. *Divya, V., +, JIoT May 15, 2021 8133-8144*

EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y., +, JIoT May 1, 2021 7288-7302*

Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R., +, JIoT Aug. 1, 2021 12410-12421*

Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence. *Saeed, A., +, JIoT Jan. 15, 2021 1030-1040*

FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IoT Technology. *Yang, L., +, JIoT June 15, 2021 9717-9729*

- HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. *Rashid, N.*, +, *JIoT Jan. 15, 2021 860-868*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y.*, +, *JIoT Feb. 1, 2021 1544-1556*
- Intrusion Detection for Cyber-Physical Systems Using Generative Adversarial Networks in Fog Environment. *Freitas de Araujo-Filho, P.*, +, *JIoT April 15, 2021 6247-6256*
- Leaky Nets: Recovering Embedded Neural Network Models and Inputs Through Simple Power and Timing Side-Channels—Attacks and Defenses. *Maji, S.*, +, *JIoT Aug. 1, 2021 12079-12092*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J.*, +, *JIoT Aug. 1, 2021 12350-12359*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L.*, +, *JIoT June 1, 2021 9383-9396*
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J.*, +, *JIoT Jan. 15, 2021 951-961*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q.*, +, *JIoT Aug. 1, 2021 11916-11934*
- Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*
- Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T.*, +, *JIoT Feb. 1, 2021 1533-1543*
- Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y.*, +, *JIoT Oct. 1, 2021 14999-15009*
- RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X.*, +, *JIoT Aug. 15, 2021 12892-12901*
- Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021 9549-9558*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*
- Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y.*, +, *JIoT Feb. 1, 2021 1740-1748*
- Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K.*, +, *JIoT Aug. 15, 2021 12623-12637*
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H.*, +, *JIoT March 1, 2021 3180-3188*
- Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*
- Neurocontrollers**
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Neurofeedback**
- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H.*, +, *JIoT Nov. 1, 2021 15829-15838*
- Neurophysiology**
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*
- Next generation networks**
- Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J.*, +, *JIoT Oct. 15, 2021 15096-15106*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*
- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L.*, +, *JIoT July 15, 2021 11329-11344*
- Noise measurement**
- Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K.*, +, *JIoT Dec. 1, 2021 17111-17119*
- NOMA**
- Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*
- Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W.*, +, *JIoT Nov. 15, 2021 16705-16717*
- Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K.*, +, *JIoT Dec. 15, 2021 17476-17494*
- Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F.*, +, *JIoT Dec. 15, 2021 17596-17610*
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Nonlinear distortion**
- Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*
- Nonlinear dynamical systems**
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- Nonlinear filters**
- A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y.*, +, *JIoT June 1, 2021 9359-9372*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*
- Nonlinear programming**
- AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X.*, +, *JIoT May 15, 2021 8464-8473*
- Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D.*, +, *JIoT Feb. 15, 2021 2959-2975*
- Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J.*, +, *JIoT March 1, 2021 3438-3445*
- Freshness-Aware Information Update and Computation Offloading in Mobile-Edge Computing. *Ma, X.*, +, *JIoT Aug. 15, 2021 13115-13125*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*
- Multiobjective Optimized Cloudlet Deployment and Task Offloading for Mobile-Edge Computing. *Zhu, X.*, +, *JIoT Oct. 15, 2021 15582-15595*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A.*, +, *JIoT April 1, 2021 5185-5193*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y.*, +, *JIoT Sept. 1, 2021 13316-13327*
- User-Centric Computation Offloading for Edge Computing. *Deng, X.*, +, *JIoT Aug. 15, 2021 12559-12568*

Nonorthogonal multiple access

- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*
- Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *Mishra, S.*, +, *JIoT July 15, 2021 11305-11319*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M.*, +, *JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*
- HARQ-Based Grant-Free NOMA for mMTC Uplink. *Jabbarvaziri, F.*, +, *JIoT May 15, 2021 8372-8386*
- Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L.*, +, *JIoT April 1, 2021 5129-5140*
- Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L.*, +, *JIoT April 15, 2021 6677-6691*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*
- Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y.*, +, *JIoT Oct. 15, 2021 15382-15395*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T.*, +, *JIoT July 15, 2021 11655-11665*
- Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G.*, +, *JIoT Sept. 15, 2021 14385-14398*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T.*, +, *JIoT June 15, 2021 10160-10169*
- UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*
- Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X.*, +, *JIoT Oct. 15, 2021 15049-15058*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*

Nonparametric statistics

- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*

North America

- The Impact of Covid-19 on Smartphone Usage. *Li, T.*, +, *JIoT Dec. 1, 2021 16723-16733*

Numerical analysis

- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*

- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y.*, +, *JIoT Feb. 15, 2021 2900-2909*
- Devote: Criticality-Aware Federated Service Provisioning in Fog-Based IoT Environments. *Tiwari, M.*, +, *JIoT July 1, 2021 10631-10638*
- Modeling DRX for D2D Communication. *Moradi, F.*, +, *JIoT Feb. 15, 2021 2574-2584*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*

O**Object detection**

- A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IIoT. *Song, C.*, +, *JIoT May 1, 2021 7510-7520*
- A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I.*, +, *JIoT July 1, 2021 10318-10326*
- A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*
- Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y.*, +, *JIoT April 15, 2021 6337-6347*
- Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L.*, +, *JIoT Feb. 15, 2021 3014-3026*
- CoFF: Cooperative Spatial Feature Fusion for 3-D Object Detection on Autonomous Vehicles. *Guo, J.*, +, *JIoT July 15, 2021 11078-11087*
- Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M.*, +, *JIoT July 15, 2021 11594-11606*
- Confused-Modulo-Projection-Based Somewhat Homomorphic Encryption—Cryptosystem, Library, and Applications on Secure Smart Cities. *Jin, X.*, +, *JIoT April 15, 2021 6324-6336*
- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X.*, +, *JIoT Aug. 15, 2021 12588-12596*
- Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J.*, +, *JIoT Jan. 15, 2021 1140-1153*
- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*
- Enhancing Decoding Rate of Barcode Decoders in Complex Scenes for IoT Systems. *Sharif, A.*, +, *JIoT Dec. 15, 2021 17495-17507*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M.*, +, *JIoT Oct. 15, 2021 15059-15069*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021 3904-3914*
- Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T.*, +, *JIoT June 15, 2021 9634-9644*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H.*, +, *JIoT Feb. 15, 2021 2193-2207*
- On Construction of Sensors, Edge, and Cloud (iSEC) Framework for Smart System Integration and Applications. *Kristiani, E.*, +, *JIoT Jan. 1, 2021 309-319*
- People Counting Using IR-UWB Radar Sensor in a Wide Area. *Choi, J.*, +, *JIoT April 1, 2021 5806-5821*
- Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning. *Yurtman, A.*, +, *JIoT May 15, 2021 8328-8342*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M.*, +, *JIoT June 1, 2021 9177-9188*
- Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X.*, +, *JIoT March 15, 2021 4980-4990*
- Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data. *Khan, N.*, +, *JIoT Jan. 1, 2021 596-609*
- Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z., +, JIoT Sept. 15, 2021 14372-14384*
 ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*

Object recognition

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*
 Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A., +, JIoT Nov. 15, 2021 16548-16558*
 Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*
 Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M., +, JIoT July 15, 2021 11594-11606*
 Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P., +, JIoT March 1, 2021 3287-3299*

Object tracking

CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*
 Deep Siamese Cross-Residual Learning for Robust Visual Tracking. *Wu, F., +, JIoT Oct. 15, 2021 15216-15227*
 MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L., +, JIoT June 1, 2021 9383-9396*
 Multiple People Identification Through Walls Using Off-the-Shelf WiFi. *Korany, B., +, JIoT April 15, 2021 6963-6974*
 Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*
 Object Tracking by the Least Spatiotemporal Searches. *Yu, Z., +, JIoT Aug. 15, 2021 12934-12946*
 Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M., +, JIoT June 1, 2021 9177-9188*
 Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H., +, JIoT Sept. 15, 2021 14094-14109*

Object-oriented programming

A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A., +, JIoT March 1, 2021 3885-3903*

Observers

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X., +, JIoT Oct. 1, 2021 14845-14859*
 Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*

Oceanographic equipment

Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L., +, JIoT Sept. 15, 2021 13805-13824*

Oceanographic techniques

Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H., +, JIoT Feb. 15, 2021 2814-2825*

OFDM modulation

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*
 Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X., +, JIoT June 1, 2021 9233-9243*
 Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X., +, JIoT Aug. 1, 2021 12093-12105*
 Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B., +, JIoT March 1, 2021 3066-3074*
 Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J., +, JIoT Oct. 15, 2021 15361-15371*
 Guest Editorial Special Issue on 6G-Enabled Internet of Things. *Liang, Q., +, JIoT Oct. 15, 2021 15037-15040*
 Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*

Latency Optimization for Computation Offloading With Hybrid NOMA-OMA Transmission. *Liu, L., +, JIoT April 15, 2021 6677-6691*
 Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y., +, JIoT Sept. 15, 2021 14051-14065*

Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. *Zhong, Y., +, JIoT Oct. 15, 2021 15148-15159*

Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W., +, JIoT Aug. 15, 2021 13052-13064*

Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J., +, JIoT June 1, 2021 9407-9421*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*

Ontologies (artificial intelligence)

An Ontology-Based System to Collect WSN-UAS Data Effectively. *Martin-Lammerding, D., +, JIoT March 1, 2021 3636-3652*

Open systems

Blockchain-Enabled Cyber-Physical Systems: A Review. *Zhao, W., +, JIoT March 15, 2021 4023-4034*

Embedding Blockchain Technology Into IoT for Security: A Survey. *Xu, L.D., +, JIoT July 1, 2021 10452-10473*

ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G., +, JIoT March 1, 2021 3120-3129*

Operating system kernels

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H., +, JIoT April 15, 2021 6692-6708*

Operating systems

CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q., +, JIoT Dec. 1, 2021 16946-16962*

Operating systems (computers)

A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature. *Hagos, D.H., +, JIoT March 1, 2021 3534-3553*

Reliable Real-Time Operating System for IoT Devices. *Hahm, S., +, JIoT March 1, 2021 3705-3716*

Operations research

Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms. *Mijuskovic, A., +, JIoT Feb. 1, 2021 1797-1816*

Optical communication

Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K., +, JIoT Oct. 1, 2021 14810-14821*

Optical communication equipment

Resonant Beam Communications With Echo Interference Elimination. *Xiong, M., +, JIoT Feb. 15, 2021 2875-2885*

Optical fiber networks

Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R., +, JIoT Aug. 1, 2021 12410-12421*

Optical filters

Resonant Beam Communications With Echo Interference Elimination. *Xiong, M., +, JIoT Feb. 15, 2021 2875-2885*

Optical information processing

Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J., +, JIoT Jan. 15, 2021 1140-1153*

Optical modulation

Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*

Optical radar

Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J., +, JIoT Jan. 15, 2021 1140-1153*

Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y., +, JIoT July 1, 2021 10356-10366*

Optical sensors

Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P., +, JIoT Dec. 15, 2021 17557-17567*

Optical switches

Review on Metamaterial Perfect Absorbers and Their Applications to IoT. *Amiri, M., +, JIoT March 15, 2021 4105-4131*

Optical transmitters

End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H., +, JIoT Dec. 15, 2021 17356-17371*

Optical wavelength conversion

Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*

Optimal control

AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X., +, JIoT May 15, 2021 8464-8473*

Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*

Learning Tracking Control for Cyber-Physical Systems. *Wu, C., +, JIoT June 1, 2021 9151-9163*

Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*

Optimal scheduling

Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C., +, JIoT Nov. 15, 2021 16207-16218*

Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z., +, JIoT Dec. 15, 2021 17290-17307*

Optimization

Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A., +, JIoT Jan. 15, 2021 829-843*

A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J., +, JIoT May 1, 2021 7546-7561*

A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*

A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A., +, JIoT March 1, 2021 3885-3903*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H., +, JIoT July 15, 2021 11208-11218*

A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J., +, JIoT Dec. 15, 2021 17508-17524*

A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V., +, JIoT July 1, 2021 10583-10595*

A Joint Optimization Scheme for Hybrid MAC Layer in LEO Satellite Supported IoT. *Wang, C., +, JIoT Aug. 1, 2021 11822-11833*

A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y., +, JIoT Dec. 1, 2021 17071-17089*

A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S., +, JIoT Feb. 1, 2021 1358-1372*

A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J., +, JIoT June 15, 2021 9683-9696*

A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H., +, JIoT March 15, 2021 4540-4547*

A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks. *Sha, C., +, JIoT Feb. 15, 2021 2649-2669*

A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V., +, JIoT July 15, 2021 11320-11328*

A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L., +, JIoT Aug. 1, 2021 12046-12063*

A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning. *Zhang, W., +, JIoT Feb. 1, 2021 1406-1416*

Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S., +, JIoT Jan. 1, 2021 572-584*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*

Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. *Li, R., +, JIoT Oct. 1, 2021 14471-14484*

Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks. *Guo, L., +, JIoT March 1, 2021 3851-3863*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F., +, JIoT Oct. 1, 2021 15024-15036*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*

An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P., +, JIoT Aug. 15, 2021 12597-12609*

An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J., +, JIoT Oct. 15, 2021 15372-15381*

An Online Learning Approach to Computation Offloading in Dynamic Fog Networks. *Yang, M., +, JIoT Feb. 1, 2021 1572-1584*

AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*

Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X., +, JIoT April 15, 2021 7009-7023*

Automatic Generation of IoT Device Platforms With AutoLink. *Li, B., +, JIoT April 1, 2021 5893-5903*

Backscatter-Assisted Data Offloading in OFDMA-Based Wireless-Powered Mobile Edge Computing for IoT Networks. *Nguyen, P.X., +, JIoT June 1, 2021 9233-9243*

Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks. *Choi, H., +, JIoT Feb. 1, 2021 1611-1622*

CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z., +, JIoT April 15, 2021 6733-6745*

Cantor: Improving Goodput in LoRa Concurrent Transmission. *Xu, D., +, JIoT Feb. 1, 2021 1519-1532*

CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*

Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W., +, JIoT March 1, 2021 3576-3586*

Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*

Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J., +, JIoT Oct. 15, 2021 15096-15106*

Competitive Age of Information in Dynamic IoT Networks. *Yu, D., +, JIoT Oct. 15, 2021 15160-15169*

Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y., +, JIoT Nov. 1, 2021 15875-15883*

Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q., +, JIoT June 1, 2021 9164-9176*

Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G., +, JIoT Sept. 1, 2021 13723-13736*

Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*

Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y., +, JIoT Oct. 1, 2021 14920-14933*

Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H., +, JIoT April 1, 2021 5544-5557*

Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C., +, JIoT March 1, 2021 3972-3982*

- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X., +, JIoT April 1, 2021 5453-5467*
- D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y., +, JIoT Aug. 15, 2021 12490-12504*
- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I., +, JIoT March 1, 2021 3143-3156*
- Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X., +, JIoT July 1, 2021 10911-10921*
- Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. *Kak, A., +, JIoT Feb. 1, 2021 1749-1768*
- Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X., +, JIoT Oct. 1, 2021 14501-14513*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D., +, JIoT June 1, 2021 9059-9071*
- Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z., +, JIoT Aug. 15, 2021 12679-12693*
- Distributed Task Offloading Optimization With Queuing Dynamics in Multiagent Mobile-Edge Computing Networks. *Zhou, J., +, JIoT Aug. 1, 2021 12311-12328*
- Downlink Connection Density Maximization for NB-IoT Networks Using NOMA With Perfect and Partial CSI. *Mishra, S., +, JIoT July 15, 2021 11305-11319*
- DQN-Based Optimization Framework for Secure Sharded Blockchain Systems. *Yun, J., +, JIoT Jan. 15, 2021 708-722*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W., +, JIoT June 15, 2021 9800-9813*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R., +, JIoT Jan. 1, 2021 345-356*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J., +, JIoT Oct. 15, 2021 15361-15371*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S., +, JIoT Jan. 15, 2021 976-988*
- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W., +, JIoT July 1, 2021 10573-10582*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T., +, JIoT March 1, 2021 3369-3383*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X., +, JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L., +, JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L., +, JIoT May 1, 2021 7485-7496*
- Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S., +, JIoT Dec. 15, 2021 17460-17475*
- FedMCCS: Multicriteria Client Selection Model for Optimal IoT Federated Learning. *Abdulrahman, S., +, JIoT March 15, 2021 4723-4735*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H., +, JIoT Oct. 15, 2021 15081-15095*
- Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R., +, JIoT March 15, 2021 4697-4710*
- Heterogeneously Reconfigurable Energy Harvester: An Algorithm for Optimal Reconfiguration. *Moon, J.H., +, JIoT Feb. 1, 2021 1437-1452*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z., +, JIoT July 1, 2021 10940-10952*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H., +, JIoT Oct. 1, 2021 14458-14470*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M., +, JIoT April 15, 2021 6454-6468*
- Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F., +, JIoT June 15, 2021 10170-10186*
- Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y., +, JIoT Feb. 15, 2021 3000-3013*
- IoT-Based Positive Emotional Contagion for Crowd Evacuation. *Zhang, G., +, JIoT Jan. 15, 2021 1057-1070*
- ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G., +, JIoT March 1, 2021 3120-3129*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y., +, JIoT May 15, 2021 8399-8410*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J., +, JIoT March 1, 2021 3462-3475*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K., +, JIoT June 15, 2021 9787-9799*
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X., +, JIoT June 15, 2021 9511-9522*
- Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. *You, W., +, JIoT Jan. 15, 2021 695-707*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*
- Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y., +, JIoT May 15, 2021 8488-8503*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D., +, JIoT July 15, 2021 11487-11502*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y., +, JIoT Feb. 15, 2021 2792-2801*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J., +, JIoT Feb. 1, 2021 1557-1571*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H., +, JIoT Sept. 1, 2021 13397-13413*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H., +, JIoT April 1, 2021 5250-5263*
- Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y., +, JIoT July 15, 2021 11427-11439*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X., +, JIoT Jan. 1, 2021 332-344*
- Matchmaker: Stable Task Assignment With Bounded Constraints for Crowdsourcing Platforms. *Yin, X., +, JIoT Feb. 1, 2021 1599-1610*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C., +, JIoT Aug. 15, 2021 12705-12715*
- MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J., +, JIoT Oct. 15, 2021 15512-15521*

- Minimizing Redundant Sensing Data Transmissions in Energy-Harvesting Sensor Networks via Exploring Spatial Data Correlations. *Guo, Z., +, JIoT Jan. 1, 2021 512-527*
- Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J., +, JIoT Nov. 1, 2021 16083-16095*
- Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X., +, JIoT April 1, 2021 6024-6038*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H., +, JIoT Dec. 15, 2021 17541-17556*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T., +, JIoT Feb. 1, 2021 1687-1701*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J., +, JIoT March 15, 2021 4389-4402*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C., +, JIoT Oct. 15, 2021 15553-15567*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*
- NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G., +, JIoT July 15, 2021 11384-11399*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K., +, JIoT April 1, 2021 5332-5339*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y., JIoT Jan. 15, 2021 962-975*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B., +, JIoT June 15, 2021 9878-9893*
- On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J., +, JIoT Feb. 1, 2021 1492-1503*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W., +, JIoT Jan. 15, 2021 723-733*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M., +, JIoT July 1, 2021 10531-10542*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q., +, JIoT Aug. 1, 2021 11916-11934*
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A., +, JIoT Sept. 1, 2021 13278-13290*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*
- Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. *Dong, X., +, JIoT May 15, 2021 8032-8043*
- Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C., +, JIoT March 15, 2021 4788-4801*
- Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L., +, JIoT Dec. 1, 2021 17172-17185*
- Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K., +, JIoT Dec. 1, 2021 17111-17119*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X., +, JIoT Feb. 15, 2021 2722-2735*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T., +, JIoT July 15, 2021 11655-11665*
- Power-Efficient Software-Defined Data Center Network. *Zhao, Y., +, JIoT June 15, 2021 10018-10033*
- Practical Network Coding Technologies and Software in Wireless Networks. *Zhu, F., +, JIoT April 1, 2021 5211-5218*
- Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L., +, JIoT July 1, 2021 10518-10530*
- QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C., +, JIoT March 15, 2021 4855-4867*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G., +, JIoT May 15, 2021 8543-8556*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A., +, JIoT Feb. 1, 2021 1674-1686*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P., +, JIoT Sept. 15, 2021 14258-14275*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H., +, JIoT Feb. 1, 2021 1871-1882*
- Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L., +, JIoT May 15, 2021 8246-8258*
- Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X., +, JIoT Sept. 15, 2021 14171-14186*
- Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y., +, JIoT July 15, 2021 11163-11176*
- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H., +, JIoT Dec. 15, 2021 17678-17690*
- Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X., +, JIoT Nov. 1, 2021 15939-15952*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G., +, JIoT Sept. 15, 2021 14385-14398*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaomar, A., +, JIoT July 15, 2021 11088-11099*
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S., +, JIoT June 15, 2021 9838-9854*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y., +, JIoT Oct. 1, 2021 14908-14919*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A., +, JIoT March 1, 2021 3057-3065*
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X., +, JIoT Jan. 1, 2021 528-540*
- Security-Aware Deployment Optimization of Cloud-Edge Systems in Industrial IoT. *Casola, V., +, JIoT Aug. 15, 2021 12724-12733*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J., +, JIoT June 1, 2021 9407-9421*
- Setup-Independent UHF RFID Sensing Technique Using Multidimensional Differential Measurement. *Zhang, X., +, JIoT July 1, 2021 10509-10517*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X., +, JIoT April 1, 2021 5240-5249*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A., +, JIoT Oct. 1, 2021 14822-14834*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T., +, JIoT June 15, 2021 10160-10169*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D., +, JIoT July 1, 2021 10543-10556*
- Task Allocation Framework for Software-Defined Fog v-RAN. *Moreira, C.M., +, JIoT Sept. 15, 2021 14187-14201*
- The Optimal and the Greedy: Drone Association and Positioning Schemes for Internet of UAVs. *Hammouti, H.E., +, JIoT Sept. 15, 2021 14066-14079*
- Throughput Enhancement of Full-Duplex CSMA Networks Using Multiplayer Bandits. *Tong, J., +, JIoT Aug. 1, 2021 11807-11821*
- Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J., +, JIoT July 15, 2021 11450-11462*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H., +, JIoT April 1, 2021 5141-5148*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H., +, JIoT June 15, 2021 9664-9671*

- Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S.*, +, *JIoT April 1, 2021 5408-5415*
- Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*
- Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*
- Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X.*, +, *JIoT March 15, 2021 4526-4539*
- Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*
- UAV-Aided Cellular Operation by User Offloading. *Ali, M.A.*, +, *JIoT June 15, 2021 9855-9864*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- User-Centric Computation Offloading for Edge Computing. *Deng, X.*, +, *JIoT Aug. 15, 2021 12559-12568*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*
- Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*
- When Crowdsourcing Meets Unmanned Vehicles: Toward Cost-Effective Collaborative Urban Sensing via Deep Reinforcement Learning. *Ding, L.*, +, *JIoT Aug. 1, 2021 12150-12162*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*
- Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*
- Organizational aspects**
- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*
- Orthogonal codes**
- Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J.*, +, *JIoT Oct. 15, 2021 15284-15291*
- Oscillators**
- Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S.*, +, *JIoT June 15, 2021 10085-10102*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*
- Out of order**
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C.*, +, *JIoT Nov. 15, 2021 16207-16218*
- Outsourcing**
- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M.*, +, *JIoT July 1, 2021 10830-10842*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z.*, +, *JIoT Sept. 15, 2021 14322-14337*
- An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J.*, +, *JIoT Jan. 1, 2021 458-473*
- Blockchain-Aided Privacy-Preserving Outsourcing Algorithms of Bilinear Pairings for Internet of Things Devices. *Zhang, H.*, +, *JIoT Oct. 15, 2021 15596-15607*
- Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X.*, +, *JIoT July 15, 2021 11758-11772*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S.*, +, *JIoT Feb. 15, 2021 2886-2899*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q.*, +, *JIoT Aug. 15, 2021 12782-12791*
- Low-Latency Privacy-Preserving Outsourcing of Deep Neural Network Inference. *Tian, Y.*, +, *JIoT March 1, 2021 3300-3309*
- O³-R-CP-ABE: An Efficient and Revocable Attribute-Based Encryption Scheme in the Cloud-Assisted IoMT System. *Guo, R.*, +, *JIoT June 1, 2021 8949-8963*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S.*, +, *JIoT June 1, 2021 9139-9150*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S.*, +, *JIoT July 1, 2021 10815-10829*
- Selective Sharing of Outsourced Encrypted Data in Cloud Environments. *Sifah, E.B.*, +, *JIoT Sept. 15, 2021 14141-14155*
- Toward Oblivious Location-Based *k*-Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*
- P**
- Packet loss**
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X.*, +, *JIoT Nov. 15, 2021 16598-16612*
- Packet radio networks**
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W.*, +, *JIoT Sept. 1, 2021 13237-13250*
- Pandemics**
- ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D.*, +, *JIoT Nov. 1, 2021 15977-15989*
- Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T.*, +, *JIoT Nov. 1, 2021 16002-16013*
- Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C.*, +, *JIoT Nov. 1, 2021 15906-15918*
- Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*
- Parallel processing**
- A Low-Cost Two-Tier Fog Computing Testbed for Streaming IoT-Based Applications. *Nguyen, S.*, +, *JIoT April 15, 2021 6928-6939*
- Large-Scale High-Utility Sequential Pattern Analytics in Internet of Things. *Srivastava, G.*, +, *JIoT Aug. 15, 2021 12669-12678*
- TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M.*, +, *JIoT July 1, 2021 10336-10346*
- Pareto distribution**
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- Pareto optimization**
- A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs. *Zhu, Z.*, +, *JIoT March 1, 2021 3831-3850*
- A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem. *Sharma, R.*, +, *JIoT Sept. 1, 2021 13439-13448*
- An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z.*, +, *JIoT Jan. 15, 2021 1109-1122*
- Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing. *Xu, J.*, +, *JIoT Oct. 1, 2021 14971-14984*
- BioNetExplorer: Architecture-Space Exploration of Biosignal Processing Deep Neural Networks for Wearables. *Prabakaran, B.S.*, +, *JIoT Sept. 1, 2021 13251-13265*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*

Parity check codes

Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z., +, JIoT April 1, 2021 5149-5163*

Particle filtering (numerical methods)

Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T., +, JIoT March 1, 2021 3224-3241*

Particle measurements

A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J., +, JIoT Nov. 1, 2021 15818-15828*

Particle size

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J., +, JIoT Aug. 1, 2021 11983-12003*

Particle swarm optimization

A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain. *Zhang, W., +, JIoT Feb. 15, 2021 2354-2363*

Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*

Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. *Shi, W., +, JIoT Oct. 1, 2021 14572-14588*

Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C., +, JIoT April 1, 2021 5340-5349*

RFID Reader Anticollision Based on Distributed Parallel Particle Swarm Optimization. *Cao, B., +, JIoT March 1, 2021 3099-3107*

User-Centric Computation Offloading for Edge Computing. *Deng, X., +, JIoT Aug. 15, 2021 12559-12568*

Passive networks

Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems. *Jia, P., +, JIoT Sept. 15, 2021 14028-14038*

Path planning

An Ontology-Based System to Collect WSN-UAS Data Effectively. *Martin-Lammerding, D., +, JIoT March 1, 2021 3636-3652*

AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*

Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L., +, JIoT April 15, 2021 6469-6486*

Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y., +, JIoT March 15, 2021 4906-4919*

Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W., +, JIoT July 1, 2021 10573-10582*

Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D., +, JIoT Feb. 15, 2021 2959-2975*

Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y., +, JIoT Jan. 15, 2021 1183-1196*

Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H., +, JIoT Feb. 15, 2021 2379-2394*

Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrifilian, O., +, JIoT June 15, 2021 9894-9904*

Patient care

A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J., +, JIoT June 15, 2021 10034-10046*

Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A., +, JIoT June 15, 2021 9603-9610*

Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A., +, JIoT July 1, 2021 10953-10962*

Patient diagnosis

An Integrated Deep Learning Algorithm for Detecting Lung Nodules With Low-Dose CT and Its Application in 6G-Enabled Internet of Medical Things. *Wang, W., +, JIoT April 1, 2021 5274-5284*

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*

Dynamic-Fusion-Based Federated Learning for COVID-19 Detection. *Zhang, W., +, JIoT Nov. 1, 2021 15884-15891*

Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H., +, JIoT Nov. 1, 2021 15919-15928*

Patient monitoring

2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*

A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*

Age-of-Information-Constrained Transmission Optimization for ECG-Based Body Sensor Networks. *Guo, L., +, JIoT March 1, 2021 3851-3863*

An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J., +, JIoT April 1, 2021 5778-5793*

Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M., +, JIoT Sept. 15, 2021 13939-13949*

Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*

BloTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. *Ray, P.P., +, JIoT July 1, 2021 10857-10872*

Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*

ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S., +, JIoT Jan. 1, 2021 487-500*

Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*

Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R., +, JIoT April 15, 2021 6425-6436*

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*

Hybrid Emotion-Aware Monitoring System Based on Brainwaves for Internet of Medical Things. *Meng, W., +, JIoT Nov. 1, 2021 16014-16022*

Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A., +, JIoT July 1, 2021 10953-10962*

Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S., +, JIoT Sept. 1, 2021 13763-13773*

Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y., +, JIoT Oct. 1, 2021 14999-15009*

RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X., +, JIoT Aug. 15, 2021 12892-12901*

Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N., +, JIoT March 15, 2021 4711-4722*

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P., +, JIoT March 15, 2021 5093-5100*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*

- Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. *Liu, W.*, +, *JIoT March 15, 2021 4681-4696*
- WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B.*, +, *JIoT Sept. 15, 2021 13900-13913*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M.*, +, *JIoT May 1, 2021 7600-7609*

Patient treatment

- A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M.*, +, *JIoT July 1, 2021 10830-10842*
- A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*

Pattern classification

- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*
- An Efficient Binary Convolutional Neural Network With Numerous Skip Connections for Fog Computing. *Wu, L.*, +, *JIoT July 15, 2021 11357-11367*
- An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D.*, +, *JIoT March 15, 2021 4816-4829*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z.*, +, *JIoT April 15, 2021 6733-6745*
- Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K.*, +, *JIoT June 1, 2021 9257-9267*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P.*, +, *JIoT Aug. 15, 2021 12569-12577*
- Data and Knowledge Twin Driven Integration for Large-Scale Device-Free Localization. *Zhang, J.*, +, *JIoT Jan. 1, 2021 320-331*
- Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J.*, +, *JIoT March 15, 2021 4628-4641*
- Efficient and Privacy-Preserving Decision Tree Classification for Health Monitoring Systems. *Liang, J.*, +, *JIoT Aug. 15, 2021 12528-12539*
- Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*
- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*
- Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J.*, +, *JIoT Oct. 1, 2021 14623-14637*
- Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*
- Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence. *Saeed, A.*, +, *JIoT Jan. 15, 2021 1030-1040*
- FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IoT Technology. *Yang, L.*, +, *JIoT June 15, 2021 9717-9729*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D.*, +, *JIoT July 15, 2021 11193-11207*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J.*, +, *JIoT Aug. 1, 2021 12350-12359*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K.*, +, *JIoT April 1, 2021 5332-5339*
- Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H.*, +, *JIoT Nov. 1, 2021 15919-15928*

- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*
- Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X.*, +, *JIoT April 15, 2021 6187-6196*
- XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y.*, +, *JIoT March 1, 2021 3446-3461*

Pattern clustering

- A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*
- A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm. *Li, A.*, +, *JIoT Jan. 1, 2021 187-196*
- A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L.*, +, *JIoT Oct. 15, 2021 15249-15258*
- A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021 12540-12549*
- An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. *Lee, J.*, +, *JIoT May 1, 2021 7105-7114*
- Analysis of a Network Stability-Aware Clustering Protocol for Cognitive Radio Sensor Networks. *Shakhov, V.*, +, *JIoT Aug. 1, 2021 12476-12477*
- Anomaly Detection Based on Multidimensional Data Processing for Protecting Vital Devices in 6G-Enabled Massive IIoT. *Han, G.*, +, *JIoT April 1, 2021 5219-5229*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms. *Mijuskovic, A.*, +, *JIoT Feb. 1, 2021 1797-1816*
- Data and Knowledge Twin Driven Integration for Large-Scale Device-Free Localization. *Zhang, J.*, +, *JIoT Jan. 1, 2021 320-331*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W.*, +, *JIoT April 1, 2021 5374-5385*
- Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus. *Yu, H.*, +, *JIoT Nov. 1, 2021 16096-16107*
- ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks. *Wang, J.*, +, *JIoT Feb. 1, 2021 2078-2079*
- Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J.*, +, *JIoT Oct. 1, 2021 14623-14637*
- Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. *Xing, G.*, +, *JIoT June 1, 2021 9005-9013*
- Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. *Zhang, Y.*, +, *JIoT March 1, 2021 3786-3800*
- Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City. *Yang, J.*, +, *JIoT April 15, 2021 6416-6424*
- Improved Soft-k-Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B.*, +, *JIoT March 15, 2021 4868-4881*
- Integrated Multiple Kernel Learning for Device-Free Localization in Cluttered Environments Using Spatiotemporal Information. *Zhang, J.*, +, *JIoT March 15, 2021 4749-4761*
- Joint Optimization of Area Coverage and Mobile-Edge Computing With Clustering for FANETs. *You, W.*, +, *JIoT Jan. 15, 2021 695-707*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks. *Choudhury, N.*, +, *JIoT Jan. 1, 2021 168-178*
- The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Usecase. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*

The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L., +, JIoT July 15, 2021 11503-11513*

Pattern recognition

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*

MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P., +, JIoT May 1, 2021 7303-7315*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q., +, JIoT Feb. 1, 2021 2011-2026*

Payloads

Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A., +, JIoT Nov. 1, 2021 15652-15662*

MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J., +, JIoT Dec. 15, 2021 17403-17416*

Pedestrians

A Novel Semi-Supervised Learning Approach to Pedestrian Reidentification. *Han, H., +, JIoT Feb. 15, 2021 3042-3052*

A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. *Zhou, B., +, JIoT May 1, 2021 7203-7213*

Cascading Scene and Viewpoint Feature Learning for Pedestrian Gender Recognition. *Cai, L., +, JIoT Feb. 15, 2021 3014-3026*

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q., +, JIoT Feb. 1, 2021 2011-2026*

Peer-to-peer computing

A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F., +, JIoT Feb. 15, 2021 2468-2482*

A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C., +, JIoT Aug. 15, 2021 12481-12489*

Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y., +, JIoT Nov. 1, 2021 15785-15795*

Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W., +, JIoT April 1, 2021 5926-5937*

Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. *Li, J., +, JIoT Jan. 15, 2021 734-749*

Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*

Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L., +, JIoT Feb. 15, 2021 2330-2341*

IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhelim, S., +, JIoT Dec. 15, 2021 17817-17828*

Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M., +, JIoT Sept. 1, 2021 13690-13702*

RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C., +, JIoT March 15, 2021 4291-4304*

Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. *Vangala, A., +, JIoT July 1, 2021 10792-10806*

Percolation

Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhalkhan, A., +, JIoT April 1, 2021 6039-6052*

Performance evaluation

An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P., +, JIoT Aug. 15, 2021 12597-12609*

An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z., +, JIoT Dec. 1, 2021 16779-16786*

Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*

Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H., +, JIoT June 1, 2021 9450-9459*

High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y., +, JIoT Dec. 1, 2021 16872-16879*

MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y., +, JIoT Dec. 1, 2021 16933-16945*

Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X., +, JIoT Nov. 1, 2021 15649-15651*

The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D., +, JIoT Dec. 15, 2021 17525-17540*

The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A., +, JIoT Dec. 15, 2021 17236-17260*

Perpendicular magnetic anisotropy

SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K., +, JIoT Nov. 15, 2021 16666-16679*

Personal area networks

Optimizing Superframe and Data Buffer to Achieve Maximum Throughput for 802.15.4-Based Energy Harvesting Wireless Sensor Networks. *Zhu, Y., +, JIoT March 1, 2021 3689-3704*

QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*

Securing 6LoWPAN Neighbor Discovery. *Park, W., +, JIoT Sept. 1, 2021 13677-13689*

Personnel

AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H., +, JIoT April 15, 2021 6167-6177*

Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K., +, JIoT June 15, 2021 9753-9762*

Perturbation methods

MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y., +, JIoT Dec. 1, 2021 16933-16945*

Perturbation theory

Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C., +, JIoT Jan. 1, 2021 262-277*

Pest control

Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*

Petri nets

Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G., +, JIoT Dec. 1, 2021 17199-17210*

Pharmaceutical industry

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S., +, JIoT July 1, 2021 10280-10287*

Phase measurement

Cost-Effective Bad Synchronophasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L., +, JIoT Feb. 1, 2021 2027-2039*

Phasor measurement

Cost-Effective Bad Synchronophasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L., +, JIoT Feb. 1, 2021 2027-2039*

Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L., +, JIoT May 1, 2021 7589-7599*

TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J., +, JIoT Jan. 15, 2021 1001-1015*

Phosphorescence

Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P., +, JIoT Dec. 15, 2021 17557-17567*

Photovoltaic power systems

Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I., +, JIoT May 15, 2021 8423-8436*

Physiology

Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X., +, JIoT Feb. 1, 2021 1373-1387*

LSTM-Based Emotion Detection Using Physiological Signals: IoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M., +, JIoT Dec. 1, 2021 16863-16871*

Piezoelectric thin films

Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*

Piezoelectric transducers

Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V., +, JIoT March 15, 2021 5009-5022*

ViPSN: A Vibration-Powered IoT Platform. *Li, X., +, JIoT Feb. 1, 2021 1728-1739*

Pipelines

Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K., +, JIoT April 15, 2021 6565-6577*

Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J., +, JIoT Nov. 1, 2021 16083-16095*

Smart Micro-GaS: A Cognitive Micro Natural Gas Industrial Ecosystem Based on Mixed Blockchain and Edge Computing. *Miao, Y., +, JIoT Feb. 15, 2021 2289-2299*

Planar antenna arrays

Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X., +, JIoT Jan. 1, 2021 528-540*

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R., JIoT July 1, 2021 10807-10814*

Planning

A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J., +, JIoT June 15, 2021 9683-9696*

Plant diseases

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G., +, JIoT Aug. 15, 2021 12847-12854*

Pneumodynamics

2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. *Mercuri, M., +, JIoT July 15, 2021 11065-11077*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y., +, JIoT Oct. 1, 2021 14999-15009*

ReType: Your Breath Tells Your Mind!. *Wang, Q., +, JIoT June 1, 2021 9436-9449*

RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X., +, JIoT Aug. 15, 2021 12892-12901*

Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P., +, JIoT March 15, 2021 5093-5100*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*

WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B., +, JIoT Sept. 15, 2021 13900-13913*

Poisson distribution

Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A., +, JIoT March 15, 2021 4461-4471*

On the Secure Spectral Efficiency of URLLC With Randomly Located Collocated Eavesdroppers. *Farhat, J., +, JIoT Oct. 1, 2021 14672-14682*

Pole assignment

RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S., +, JIoT July 15, 2021 11177-11192*

Police data processing

Object Tracking by the Least Spatiotemporal Searches. *Yu, Z., +, JIoT Aug. 15, 2021 12934-12946*

Polymer films

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M., +, JIoT March 15, 2021 5101-5110*

Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P., +, JIoT March 15, 2021 5093-5100*

Polynomials

Anomalous IoT Sensor Data Detection: An Efficient Approach Enabled by Nonlinear Frequency-Domain Graph Analysis. *Xiao, Z., +, JIoT March 1, 2021 3812-3821*

Industrial Security Solution for Virtual Reality. *Lv, Z., +, JIoT April 15, 2021 6273-6281*

Portals

AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K., +, JIoT March 15, 2021 5023-5030*

Pose estimation

Combining Pose Invariant and Discriminative Features for Vehicle Reidentification. *Sheng, H., +, JIoT March 1, 2021 3189-3200*

MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L., +, JIoT June 1, 2021 9383-9396*

Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y., +, JIoT Feb. 1, 2021 1740-1748*

Position control

A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J., +, JIoT March 15, 2021 4403-4416*

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y., +, JIoT April 1, 2021 5822-5838*

Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y., +, JIoT March 15, 2021 4841-4854*

Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I., +, JIoT March 1, 2021 3605-3618*

Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C., +, JIoT Jan. 1, 2021 262-277*

UAV-Aided Cellular Operation by User Offloading. *Ali, M.A., +, JIoT June 15, 2021 9855-9864*

Position measurement

A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q., +, JIoT Dec. 1, 2021 17014-17028*

Power aware computing

A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T., +, JIoT June 15, 2021 9473-9483*

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D., +, JIoT Aug. 15, 2021 12880-12891*

A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A., +, JIoT Aug. 15, 2021 13065-13076*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*

An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P., +, JIoT Aug. 15, 2021 12597-12609*

Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X., +, JIoT Aug. 15, 2021 12968-12982*

Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT. *Yu, W., +, JIoT May 1, 2021 7638-7648*

Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*

Dissecting Energy Consumption of NB-IoT Devices Empirically. *Michelelinakis, F., +, JIoT Jan. 15, 2021 1224-1242*

EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S., +, JIoT May 15, 2021 8474-8487*

Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M., +, JIoT Aug. 15, 2021 12638-12649*

Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J., +, JIoT March 1, 2021 3438-3445*

Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N., +, JIoT May 15, 2021 8259-8278*

Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T.*, +, *JIoT Feb. 1, 2021 1687-1701*

Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T.*, +, *JIoT April 15, 2021 6649-6664*

Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*

Power capacitors

Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M.*, +, *JIoT Dec. 15, 2021 17611-17621*

Power consumption

A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JIoT Aug. 1, 2021 12360-12374*

A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks. *Sha, C.*, +, *JIoT Feb. 15, 2021 2649-2669*

Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*

Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K.*, +, *JIoT March 15, 2021 4642-4656*

Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*

Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahem, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*

Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*

IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J.*, +, *JIoT Aug. 15, 2021 12771-12781*

NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G.*, +, *JIoT July 15, 2021 11384-11399*

Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*

Rateless TLRCM for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*

Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L.*, +, *JIoT May 15, 2021 8246-8258*

Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C.*, +, *JIoT July 15, 2021 11249-11259*

Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X.*, +, *JIoT Sept. 1, 2021 13737-13749*

TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M.*, +, *JIoT July 1, 2021 10336-10346*

Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*

Power control

A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*

A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H.*, +, *JIoT Oct. 1, 2021 14705-14718*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*

Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*

Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W.*, +, *JIoT Nov. 15, 2021 16705-16717*

Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*

Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*

Enhancing Federated Learning in Fog-Aided IoT by CPU Frequency and Wireless Power Control. *Yao, J.*, +, *JIoT March 1, 2021 3438-3445*

Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021 8399-8410*

Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T.*, +, *JIoT Sept. 15, 2021 14418-14430*

Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X.*, +, *JIoT Jan. 1, 2021 332-344*

Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*

Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y.*, +, *JIoT Oct. 15, 2021 15382-15395*

Performance Analysis and Optimization of NOMA With HARQ for Short Packet Communications in Massive IoT. *Ghanami, F.*, +, *JIoT March 15, 2021 4736-4748*

Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*

Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*

UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*

When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*

Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*

Power demand

Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*

CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B.*, +, *JIoT Dec. 15, 2021 17790-17801*

Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahem, M.I.*, +, *JIoT Dec. 1, 2021 17131-17146*

Power distribution control

Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N.*, +, *JIoT June 1, 2021 9422-9435*

Power dividers

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Power engineering computing

A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*

A Cloud Edge Collaborative Intelligence Method of Insulator String Defect Detection for Power IoT. *Song, C.*, +, *JIoT May 1, 2021 7510-7520*

A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V.*, +, *JIoT July 1, 2021 10583-10595*

A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L.*, +, *JIoT Aug. 1, 2021 12046-12063*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F.*, +, *JIoT Oct. 1, 2021 15024-15036*

An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid. *Merad-Boudia, O.R.*, +, *JIoT April 15, 2021 6143-6153*

An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*

Blockchain for Future Smart Grid: A Comprehensive Survey. *Mollah, M.B.*, +, *JIoT Jan. 1, 2021 18-43*

Consensus Algorithms and Deep Reinforcement Learning in Energy Market: A Review. *Jogunola, O.*, +, *JIoT March 15, 2021 4211-4227*

Cost-Effective Bad Synchronizer Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*

Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. *Moschella, M.*, +, *JIoT July 15, 2021 11112-11122*

- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B.*, +, *JIoT April 1, 2021 5744-5761*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N.*, +, *JIoT June 1, 2021 9422-9435*
- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P.*, +, *JIoT Feb. 15, 2021 2150-2162*
- Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. *Fang, D.*, +, *JIoT May 15, 2021 8557-8569*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L.*, +, *JIoT May 15, 2021 7938-7953*
- Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M.*, +, *JIoT Aug. 1, 2021 12422-12435*
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y.*, +, *JIoT Oct. 15, 2021 15639-15648*
- Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L.*, +, *JIoT May 1, 2021 7589-7599*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W.*, +, *JIoT Sept. 1, 2021 13703-13711*
- Multiple Wavelet Convolutional Neural Network for Short-Term Load Forecasting. *Liao, Z.*, +, *JIoT June 15, 2021 9730-9739*
- Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q.*, +, *JIoT July 15, 2021 11463-11475*
- Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W.*, +, *JIoT May 15, 2021 8632-8643*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*
- Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z.*, +, *JIoT April 15, 2021 6608-6623*
- Power generation control**
- Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack. *Li, Y.*, +, *JIoT Oct. 15, 2021 15522-15530*
- Power generation dispatch**
- An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F.*, +, *JIoT Oct. 1, 2021 15024-15036*
- Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy. *Fang, D.*, +, *JIoT June 15, 2021 9654-9663*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W.*, +, *JIoT Sept. 1, 2021 13703-13711*
- Power generation economics**
- An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F.*, +, *JIoT Oct. 1, 2021 15024-15036*
- An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y.*, +, *JIoT May 15, 2021 8616-8631*
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*
- Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy. *Fang, D.*, +, *JIoT June 15, 2021 9654-9663*
- Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W.*, +, *JIoT Sept. 1, 2021 13703-13711*
- Power grids**
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H.*, +, *JIoT April 1, 2021 5230-5239*
- Cost-Effective Bad Synchronphasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*
- Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. *Fang, D.*, +, *JIoT May 15, 2021 8557-8569*
- Dynamic Energy Dispatch Based on Deep Reinforcement Learning in IoT-Driven Smart Isolated Microgrids. *Lei, L.*, +, *JIoT May 15, 2021 7938-7953*
- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I.*, +, *JIoT Jan. 15, 2021 1243-1258*
- Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A.*, +, *JIoT Nov. 15, 2021 16395-16405*
- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X.*, +, *JIoT Jan. 15, 2021 657-671*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Power markets**
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- An Incentive Mechanism for Privacy-Preserving Crowdsensing via Deep Reinforcement Learning. *Liu, Y.*, +, *JIoT May 15, 2021 8616-8631*
- Consensus Algorithms and Deep Reinforcement Learning in Energy Market: A Review. *Jogunola, O.*, +, *JIoT March 15, 2021 4211-4227*
- Power measurement**
- RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S.*, +, *JIoT Oct. 1, 2021 14860-14873*
- Power meters**
- A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JIoT Aug. 1, 2021 12360-12374*
- Power system control**
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*
- Power system faults**
- Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*
- Power system interconnection**
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*
- Power system measurement**
- Cost-Effective Bad Synchronphasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N.*, +, *JIoT June 1, 2021 9422-9435*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Power system reliability**
- End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H.*, +, *JIoT Dec. 15, 2021 17356-17371*
- Power system security**
- Blockchain for Future Smart Grid: A Comprehensive Survey. *Mollah, M.B.*, +, *JIoT Jan. 1, 2021 18-43*

- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y., +, JIoT Feb. 15, 2021 2910-2919*
- Hierarchical-Attention-Based Defense Method for Load Frequency Control System Against DoS Attack. *Li, Y., +, JIoT Oct. 15, 2021 15522-15530*
- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L., +, JIoT May 15, 2021 7863-7873*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J., +, JIoT Jan. 15, 2021 1001-1015*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M., +, JIoT April 1, 2021 5468-5475*
- Power system state estimation**
- Cost-Effective Bad Synchronasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L., +, JIoT Feb. 1, 2021 2027-2039*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N., +, JIoT June 1, 2021 9422-9435*
- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J., +, JIoT Jan. 15, 2021 1001-1015*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M., +, JIoT April 1, 2021 5468-5475*
- Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z., +, JIoT April 15, 2021 6608-6623*
- Power transmission**
- Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. *Lopez, O.L.A., +, JIoT June 1, 2021 8816-8835*
- Precoding**
- A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H., +, JIoT Oct. 1, 2021 14705-14718*
- MIMO Design for Internet of Things: Joint Optimization of Spectral Efficiency and Error Probability in Finite Blocklength Regime. *Choi, J., +, JIoT Oct. 15, 2021 15512-15521*
- Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J., +, JIoT Nov. 15, 2021 16571-16584*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C., +, JIoT Aug. 15, 2021 13024-13038*
- Prediction algorithms**
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J., +, JIoT Dec. 1, 2021 16801-16813*
- Predictive models**
- ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting. *Vekaria, D., +, JIoT Nov. 1, 2021 15977-15989*
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J., +, JIoT Nov. 1, 2021 15839-15846*
- FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*
- Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S., +, JIoT Nov. 15, 2021 16326-16336*
- Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C., +, JIoT Nov. 1, 2021 15906-15918*
- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q., +, JIoT Nov. 1, 2021 15953-15964*
- Pricing**
- A Model for Joint Planning of Production and Distribution of Fresh Produce in Agricultural Internet of Things. *Han, J., +, JIoT June 15, 2021 9683-9696*
- A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z., +, JIoT Aug. 15, 2021 12658-12668*
- Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. *Zuo, Y., +, JIoT June 1, 2021 9084-9098*
- Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. *Li, J., +, JIoT Jan. 15, 2021 734-749*
- Contract-Theoretic Pricing for Security Deposits in Sharded Blockchain With Internet of Things (IoT). *Li, J., +, JIoT June 15, 2021 10052-10070*
- Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I., +, JIoT Jan. 15, 2021 1243-1258*
- Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing. *Haghighatdoost, V., +, JIoT April 1, 2021 5710-5721*
- Healthchain: Secure EMRs Management and Trading in Distributed Healthcare Service System. *Li, C., +, JIoT May 1, 2021 7192-7202*
- Hierarchical Pricing Mechanism With Financial Stability for Decentralized Crowdsourcing: A Smart Contract Approach. *Zhang, W., +, JIoT Jan. 15, 2021 750-765*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L., +, JIoT May 15, 2021 7863-7873*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G., +, JIoT May 15, 2021 8543-8556*
- Principal component analysis**
- A Cluster-Principal-Component-Analysis-Based Indoor Positioning Algorithm. *Li, A., +, JIoT Jan. 1, 2021 187-196*
- Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A., +, JIoT March 15, 2021 4433-4447*
- Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H., +, JIoT June 1, 2021 9450-9459*
- People Counting Using IR-UWB Radar Sensor in a Wide Area. *Choi, J., +, JIoT April 1, 2021 5806-5821*
- Printed circuits**
- Fully Passive-Printed Wireless Wear Sensor. *Serdah, M., +, JIoT April 15, 2021 7036-7045*
- Privacy**
- d-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E., +, JIoT Nov. 15, 2021 16585-16597*
- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H., +, JIoT Nov. 15, 2021 16349-16358*
- An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L., +, JIoT Dec. 1, 2021 17120-17130*
- Contact Tracing Incentive for COVID-19 and Other Pandemic Diseases From a Crowdsourcing Perspective. *Wang, P., +, JIoT Nov. 1, 2021 15863-15874*
- I-ViSE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y., +, JIoT Nov. 1, 2021 16181-16190*
- Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G., +, JIoT Nov. 1, 2021 16165-16180*
- Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J., +, JIoT Nov. 15, 2021 16290-16300*
- Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahim, M.I., +, JIoT Dec. 1, 2021 17131-17146*
- The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. *Ferrag, M.A., +, JIoT Dec. 15, 2021 17236-17260*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y., +, JIoT Nov. 15, 2021 16243-16255*
- Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H., +, JIoT Dec. 15, 2021 17734-17746*
- Private key cryptography**
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D., +, JIoT Aug. 1, 2021 12137-12149*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S., +, JIoT Aug. 15, 2021 12947-12954*

- Certificate-Based Parallel Key-Insulated Aggregate Signature Against Fully Chosen Key Attacks for Industrial Internet of Things. *Hou, Y.*, +, *JIoT June 1, 2021 8935-8948*
- Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain. *Zhang, C.*, +, *JIoT April 15, 2021 6624-6636*
- Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X.*, +, *JIoT May 15, 2021 8234-8245*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A.*, +, *JIoT Oct. 1, 2021 14874-14895*
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y.*, +, *JIoT Feb. 15, 2021 2627-2634*
- Probability**
- 3GPP Standardized 5G Channel Model for IIoT Scenarios: A Survey. *Jiang, T.*, +, *JIoT June 1, 2021 8799-8815*
- 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M.*, +, *JIoT Oct. 15, 2021 15117-15125*
- A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J.*, +, *JIoT May 1, 2021 7546-7561*
- A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol. *Xiang, Z.*, +, *JIoT April 1, 2021 5697-5709*
- A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L.*, +, *JIoT Oct. 15, 2021 15249-15258*
- A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P.*, +, *JIoT July 15, 2021 11476-11486*
- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*
- A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*
- A Novel Heuristic Data Routing for Urban Vehicular *Ad Hoc* Networks. *Hawbani, A.*, +, *JIoT June 1, 2021 8976-8989*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*
- A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things. *Khan, F.*, +, *JIoT Oct. 1, 2021 14835-14844*
- An Adaptive-Location-Based Routing Protocol for 3-D Underwater Acoustic Sensor Networks. *Wang, Q.*, +, *JIoT April 15, 2021 6853-6864*
- Analysis and Implementation for Traffic-Aware Channel Assignment and Contention Scheme in LoRa-Based IoT Networks. *Shen, L.*, +, *JIoT July 15, 2021 11368-11383*
- Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks. *Hentati, A.*, +, *JIoT March 15, 2021 4920-4930*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- Centralized and Distributed Age of Information Minimization With Nonlinear Aging Functions in the Internet of Things. *Park, T.*, +, *JIoT May 15, 2021 8437-8455*
- Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J.*, +, *JIoT Jan. 1, 2021 244-261*
- Cognitive Neighbor Discovery With Directional Antennas in Self-Organizing IoT Networks. *Bai, W.*, +, *JIoT April 15, 2021 6865-6877*
- Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X.*, +, *JIoT July 15, 2021 11758-11772*
- Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R.*, +, *JIoT June 1, 2021 8964-8975*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J.*, +, *JIoT Oct. 15, 2021 15441-15455*
- Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services. *Cao, J.*, +, *JIoT March 1, 2021 3758-3773*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T.*, +, *JIoT March 1, 2021 3224-3241*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021 9920-9933*
- Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R.*, +, *JIoT Oct. 15, 2021 15396-15406*
- EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F.*, +, *JIoT Feb. 1, 2021 1259-1271*
- End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H.*, +, *JIoT Dec. 15, 2021 17356-17371*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K.*, +, *JIoT June 15, 2021 9753-9762*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Enhanced Random Access for Massive-Machine-Type Communications. *Lee, B.*, +, *JIoT April 15, 2021 7046-7064*
- FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X.*, +, *JIoT Jan. 1, 2021 610-625*
- FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L.*, +, *JIoT May 1, 2021 7333-7345*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M.*, +, *JIoT April 15, 2021 6454-6468*
- Improved Soft- k -Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B.*, +, *JIoT March 15, 2021 4868-4881*
- Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J.*, +, *JIoT Oct. 1, 2021 14773-14786*
- IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry. *Bhatia, M.*, *JIoT June 15, 2021 9523-9530*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W.*, +, *JIoT May 15, 2021 7833-7848*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*
- Large Intelligent Surface-Assisted Nonorthogonal Multiple Access for 6G Networks: Performance Analysis. *Bariah, L.*, +, *JIoT April 1, 2021 5129-5140*
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J.*, +, *JIoT June 15, 2021 9958-9969*
- Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W.*, +, *JIoT Aug. 1, 2021 12398-12409*
- Mobility-Aware and Interest-Predicted Caching Strategy Based on IoT Data Freshness in D2D Networks. *Zhao, X.*, +, *JIoT April 1, 2021 6024-6038*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y.*, +, *JIoT Sept. 15, 2021 14051-14065*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

- Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M.*, +, *JIoT July 1, 2021 10745-10754*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B.*, +, *JIoT July 15, 2021 11705-11716*
- Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D.*, +, *JIoT June 1, 2021 9330-9343*
- Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L.*, +, *JIoT May 1, 2021 7241-7251*
- Object Tracking by the Least Spatiotemporal Searches. *Yu, Z.*, +, *JIoT Aug. 15, 2021 12934-12946*
- Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y.*, +, *JIoT May 15, 2021 8223-8233*
- Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C.*, +, *JIoT March 15, 2021 4788-4801*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L.*, +, *JIoT Sept. 1, 2021 13355-13366*
- Performance Analysis Models of BLE Neighbor Discovery: A Survey. *Luo, B.*, +, *JIoT June 1, 2021 8734-8746*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T.*, +, *JIoT July 15, 2021 11655-11665*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- Probabilistic Source Localization Based on Time-of-Arrival Measurements. *Salt, J.E.*, +, *JIoT April 1, 2021 5881-5892*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*
- Reliable Random Access for Decentralized UAV Networks Based on Raptor Codes. *Shang, J.*, +, *JIoT Nov. 15, 2021 16571-16584*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks. *Jang, H.S.*, +, *JIoT July 15, 2021 11640-11654*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M.*, +, *JIoT March 1, 2021 3619-3635*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P.*, +, *JIoT March 1, 2021 3287-3299*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*
- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C.*, +, *JIoT Jan. 1, 2021 262-277*
- Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L.*, +, *JIoT July 15, 2021 11329-11344*
- Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L.*, +, *JIoT June 1, 2021 8854-8864*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U.*, +, *JIoT Jan. 1, 2021 443-457*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT. *Han, C.*, +, *JIoT Sept. 1, 2021 13555-13566*
- Processor scheduling**
- Multihop Offloading of Multiple DAG Tasks in Collaborative Edge Computing. *Sahni, Y.*, +, *JIoT March 15, 2021 4893-4905*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L.*, +, *JIoT Dec. 1, 2021 17057-17070*
- Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H.*, +, *JIoT April 15, 2021 6692-6708*
- Product quality**
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*
- Production engineering computing**
- A Machine-Learning-Based Distributed System for Fault Diagnosis With Scalable Detection Quality in Industrial IoT. *Marino, R.*, +, *JIoT March 15, 2021 4339-4352*
- A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M.*, +, *JIoT June 15, 2021 9611-9621*
- A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D.*, +, *JIoT April 1, 2021 5510-5517*
- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*
- Building Low-Interactivity Multifactor Authenticated Key Exchange for Industrial Internet of Things. *Li, Z.*, +, *JIoT Jan. 15, 2021 844-859*
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H.*, +, *JIoT April 15, 2021 6940-6948*
- Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. *Wu, Y.*, +, *JIoT Feb. 15, 2021 2300-2317*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*
- Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A.*, +, *JIoT July 15, 2021 11016-11040*
- Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *Shi, Z.*, +, *JIoT March 1, 2021 3476-3489*
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*
- Differential Privacy for Industrial Internet of Things: Opportunities, Applications, and Challenges. *Jiang, B.*, +, *JIoT July 1, 2021 10430-10451*
- Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y.*, +, *JIoT June 15, 2021 9594-9602*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*
- Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*
- ISOF: Information Scheduling and Optimization Framework for Improving the Performance of Agriculture Systems Aided by Industry 4.0. *Manogaran, G.*, +, *JIoT March 1, 2021 3120-3129*
- Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. *Pokhrel, S.R.*, +, *JIoT July 1, 2021 10299-10307*

- Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems. *Jia, P.*, +, *JIoT Sept. 15, 2021 14028-14038*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*
- Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. *Wen, P.*, +, *JIoT June 1, 2021 9045-9058*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y.*, +, *JIoT Feb. 1, 2021 1740-1748*
- Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*
- Production equipment**
- Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L.*, +, *JIoT Aug. 15, 2021 12578-12587*
- Production facilities**
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T.*, +, *JIoT June 15, 2021 9473-9483*
- Profitability**
- A Stackelberg Game Pricing Through Balancing Trilateral Profits in Big Data Market. *Xiao, Z.*, +, *JIoT Aug. 15, 2021 12658-12668*
- Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P.*, +, *JIoT Nov. 15, 2021 16559-16570*
- Prognostics and health management**
- An Explainable System for Diagnosis and Prognosis of COVID-19. *Lu, J.*, +, *JIoT Nov. 1, 2021 15839-15846*
- Program debugging**
- Reviewing IoT Security via Logic Bugs in IoT Platforms and Systems. *Zhou, W.*, +, *JIoT July 15, 2021 11621-11639*
- Program diagnostics**
- Compiler-Assisted Semantic-Aware Encryption for Efficient and Secure Serverless Computing. *Kim, B.*, +, *JIoT April 1, 2021 5645-5656*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*
- Programmable controllers**
- PLCDefender: Improving Remote Attestation Techniques for PLCs Using Physical Model. *Salehi, M.*, +, *JIoT May 1, 2021 7372-7379*
- Programming languages**
- Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. *Abichandani, P.*, +, *JIoT Feb. 1, 2021 1783-1796*
- Propulsion**
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M.*, +, *JIoT Dec. 15, 2021 17275-17289*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- Protocols**
- A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T.*, +, *JIoT May 1, 2021 7423-7436*
- A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. *Masud, M.*, +, *JIoT Nov. 1, 2021 15694-15703*
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*
- A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs. *Wang, C.*, +, *JIoT Sept. 15, 2021 14248-14257*
- A Quantitative Study of DDoS and E-DoS Attacks on WiFi Smart Home Devices. *Tushir, B.*, +, *JIoT April 15, 2021 6282-6292*
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H.*, +, *JIoT April 1, 2021 6002-6011*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z.*, +, *JIoT Oct. 1, 2021 14756-14772*
- Analysis of a Network Stability-Aware Clustering Protocol for Cognitive Radio Sensor Networks. *Shakhov, V.*, +, *JIoT Aug. 1, 2021 12476-12477*
- Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*
- Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S.*, +, *JIoT April 15, 2021 6498-6518*
- Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems. *Seo, H.*, +, *JIoT Jan. 1, 2021 129-143*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT. *Kok, I.*, +, *JIoT Jan. 1, 2021 232-243*
- Developing a Security Testbed for Industrial Internet of Things. *Al-Hawawreh, M.*, +, *JIoT April 1, 2021 5558-5573*
- Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N.*, +, *JIoT Nov. 15, 2021 16452-16472*
- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P.*, +, *JIoT Feb. 15, 2021 2150-2162*
- ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks. *Wang, J.*, +, *JIoT Feb. 1, 2021 2078-2079*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F.*, +, *JIoT June 15, 2021 9970-9980*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*
- Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W.*, +, *JIoT Jan. 15, 2021 1016-1029*
- Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K.*, +, *JIoT April 15, 2021 6565-6577*
- Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems. *Xi, Z.*, +, *JIoT Feb. 1, 2021 1651-1661*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L.*, +, *JIoT May 1, 2021 7485-7496*
- FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A.*, +, *JIoT March 15, 2021 4485-4497*
- G2F: A Secure User Authentication for Rapid Smart Home IoT Management. *Luo, H.*, +, *JIoT July 1, 2021 10884-10895*
- High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y.*, +, *JIoT Dec. 1, 2021 16872-16879*
- Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D.*, +, *JIoT July 15, 2021 11487-11502*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y.*, +, *JIoT Feb. 15, 2021 2792-2801*
- Large-Scale LoRa Networks: A Mode Adaptive Protocol. *Fernandes, R.*, +, *JIoT Sept. 1, 2021 13487-13502*
- Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- Modeling and Analysis of Data Trading on Blockchain-Based Market in IoT Networks. *Nguyen, L.D.*, +, *JIoT April 15, 2021 6487-6497*
- Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. *Lee, C.*, +, *JIoT Aug. 1, 2021 11776-11792*

- Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. *Pokhrel, S.R.*, +, *JIoT July 1, 2021 10299-10307*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*
- OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S.*, +, *JIoT Nov. 15, 2021 16418-16426*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N.*, +, *JIoT March 1, 2021 3255-3267*
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K.*, +, *JIoT April 15, 2021 6815-6827*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J.*, +, *JIoT Nov. 15, 2021 16290-16300*
- Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A.*, +, *JIoT Nov. 15, 2021 16613-16622*
- Public Blockchains for Resource-Constrained IoT Devices—A State-of-the-Art Survey. *Khor, J.H.*, +, *JIoT Aug. 1, 2021 11960-11982*
- REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*
- ReapIoT: Reliable, Energy-Aware Network Protocol for Large-Scale Internet-of-Things (IoT) Applications. *Badi, A.*, +, *JIoT Sept. 1, 2021 13582-13592*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G.*, +, *JIoT Sept. 15, 2021 14385-14398*
- Robust Neighbor-Aware Time Synchronization Protocol for Wireless Sensor Network in Dynamic and Hostile Environments. *Phan, L.*, +, *JIoT Feb. 1, 2021 1934-1945*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M.*, +, *JIoT March 1, 2021 3619-3635*
- SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V.*, +, *JIoT Nov. 15, 2021 16637-16652*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Secure Collaborative Deep Learning Against GAN Attacks in the Internet of Things. *Chen, Z.*, +, *JIoT April 1, 2021 5839-5849*
- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H.*, +, *JIoT Dec. 1, 2021 17211-17226*
- The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D.*, +, *JIoT Dec. 15, 2021 17525-17540*
- Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*
- Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H.*, +, *JIoT Dec. 15, 2021 17734-17746*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- Vulnerability of WiFi's Noise Floor Calibration. *Kim, S.*, +, *JIoT May 15, 2021 8504-8513*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M.*, +, *JIoT May 1, 2021 7600-7609*
- XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y.*, +, *JIoT March 1, 2021 3446-3461*
- You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1197-1210*
- Prototypes**
- MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*
- Psychoacoustic models**
- 5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J.*, +, *JIoT Aug. 1, 2021 12467-12475*
- Psychology**
- Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications. *Chhikara, P.*, +, *JIoT April 15, 2021 6949-6962*
- Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X.*, +, *JIoT Feb. 1, 2021 1373-1387*
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R.*, +, *JIoT Dec. 1, 2021 16825-16834*
- Public administration**
- A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V.*, +, *JIoT Feb. 15, 2021 2409-2418*
- A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M.*, +, *JIoT Aug. 1, 2021 11793-11806*
- The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L.*, +, *JIoT July 15, 2021 11503-11513*
- Public key cryptography**
- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks. *Cai, Y.*, +, *JIoT Jan. 1, 2021 647-656*
- A Secure Scheme Based on One-Way Associated Key Management Model in Wireless Sensor Networks. *Li, S.*, +, *JIoT Feb. 15, 2021 2920-2930*
- A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. *Saini, A.*, +, *JIoT April 1, 2021 5914-5925*
- An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid. *Merad-Boudia, O.R.*, +, *JIoT April 15, 2021 6143-6153*
- An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. *Yang, W.*, +, *JIoT March 15, 2021 5000-5008*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S.*, +, *JIoT Aug. 15, 2021 12947-12954*
- Cost-Effective Authenticated Data Redaction With Privacy Protection in IoT. *Zhu, F.*, +, *JIoT July 15, 2021 11678-11689*
- Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G.*, +, *JIoT Feb. 1, 2021 1908-1920*
- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. *Peng, C.*, +, *JIoT Sept. 15, 2021 14287-14298*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q.*, +, *JIoT Aug. 15, 2021 12782-12791*
- Heterogeneous Signcryption With Equality Test for IIoT Environment. *Xiong, H.*, +, *JIoT Nov. 1, 2021 16142-16152*
- Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S.*, +, *JIoT Aug. 15, 2021 12716-12723*
- LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y.*, +, *JIoT Oct. 15, 2021 15639-15648*
- Multiauthority Access Control With Anonymous Authentication for Personal Health Record. *Zhang, L.*, +, *JIoT Jan. 1, 2021 156-167*
- Novel Postquantum MQ-Based Signature Scheme for Internet of Things With Parallel Implementation. *Akleyek, S.*, +, *JIoT April 15, 2021 6983-6994*
- On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. *Suhail, S.*, +, *JIoT Jan. 1, 2021 1-17*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T.*, +, *JIoT May 15, 2021 8387-8398*
- Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. *Wei, F.*, +, *JIoT April 1, 2021 5599-5606*

PSL-MAAKA: Provably Secure and Lightweight Mutual Authentication and Key Agreement Protocol for Fully Public Channels in Internet of Medical Things. *Li, J.*, +, *JIoT Sept. 1, 2021 13183-13195*

Scalable and Efficient Hardware Architectures for Authenticated Encryption in IoT Applications. *Khan, S.*, +, *JIoT July 15, 2021 11260-11275*

SearchBC: A Blockchain-Based PEKS Framework for IoT Services. *Jiang, P.*, +, *JIoT March 15, 2021 5031-5044*

Secure Lightweight Stream Data Outsourcing for Internet of Things. *Peng, S.*, +, *JIoT July 1, 2021 10815-10829*

Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*

Public transport

Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z.*, +, *JIoT Jan. 1, 2021 474-486*

Public utilities

ToiletBuilder: A PU-Learning-Based Model for Selecting New Public Toilet Locations. *Chen, C.*, +, *JIoT May 1, 2021 7531-7545*

Multilayer Internet-of-Things Middleware Based on Knowledge Graph. *Xie, C.*, +, *JIoT Feb. 15, 2021 2635-2648*

Publishing

Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y.*, +, *JIoT July 15, 2021 11163-11176*

Q

Q factor

Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V.*, +, *JIoT March 15, 2021 5009-5022*

QR codes

An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. *Yan, Y.*, +, *JIoT April 15, 2021 6789-6799*

Quadratic programming

Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Quadrature amplitude modulation

Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z.*, +, *JIoT April 1, 2021 5149-5163*

Quadrature phase shift keying

An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*

Quality of experience

EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. *Yang, S.*, +, *JIoT June 15, 2021 9580-9593*

QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C.*, +, *JIoT March 15, 2021 4855-4867*

Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*

Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H.*, +, *JIoT April 1, 2021 5141-5148*

Quality of service

A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A.*, +, *JIoT March 1, 2021 3885-3903*

A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*

A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D.*, +, *JIoT March 1, 2021 3587-3604*

A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S.*, +, *JIoT Oct. 15, 2021 15620-15627*

A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*

A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K.*, +, *JIoT April 15, 2021 6840-6852*

A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. *Alwarafy, A.*, +, *JIoT March 15, 2021 4004-4022*

Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L.*, +, *JIoT Jan. 1, 2021 626-635*

An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment. *Prerna, D.*, +, *JIoT March 15, 2021 4816-4829*

BEdgeHealth: A Decentralized Architecture for Edge-Based IoMT Networks Using Blockchain. *Nguyen, D.C.*, +, *JIoT July 15, 2021 11743-11757*

Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R.*, +, *JIoT June 1, 2021 8964-8975*

Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*

Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services. *Cao, J.*, +, *JIoT March 1, 2021 3758-3773*

Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*

Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*

Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*

Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*

Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*

Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing. *Haghighatdoost, V.*, +, *JIoT April 1, 2021 5710-5721*

Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*

Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S.*, +, *JIoT Oct. 1, 2021 14431-14434*

Heterogeneous Task Offloading and Resource Allocations via Deep Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J.*, +, *JIoT Jan. 15, 2021 1041-1056*

I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. *Saria Allahham, M.*, +, *JIoT April 15, 2021 6454-6468*

Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*

Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S.*, +, *JIoT April 1, 2021 5172-5184*

Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. *Han, P.*, +, *JIoT July 1, 2021 10557-10572*

Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities. *Bhuiyan, M.N.*, +, *JIoT July 1, 2021 10474-10498*

IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*

Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*

Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S.*, +, *JIoT Feb. 15, 2021 2135-2149*

Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J.*, +, *JIoT Nov. 15, 2021 16313-16325*

Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*

- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M., +, JIoT April 1, 2021 6053-6061*
- MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis. *Gao, J., +, JIoT June 15, 2021 9945-9957*
- MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J., +, JIoT June 15, 2021 9958-9969*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q., +, JIoT June 15, 2021 9995-10009*
- Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z., +, JIoT Jan. 1, 2021 474-486*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I., +, JIoT March 1, 2021 3605-3618*
- Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J., +, JIoT Dec. 15, 2021 17417-17428*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J., +, JIoT Feb. 1, 2021 1883-1895*
- Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J., +, JIoT July 15, 2021 11219-11232*
- On Fast Retrieval for Two-Step Random Access in MTC. *Choi, J., JIoT Feb. 1, 2021 1428-1436*
- Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L., +, JIoT March 1, 2021 3524-3533*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X., +, JIoT Feb. 15, 2021 2722-2735*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T., +, JIoT July 15, 2021 11655-11665*
- Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L., +, JIoT May 15, 2021 8246-8258*
- Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F., +, JIoT Nov. 15, 2021 16653-16665*
- SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M., +, JIoT March 1, 2021 3665-3677*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y., JIoT Oct. 15, 2021 15568-15581*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A., +, JIoT March 1, 2021 3057-3065*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J., +, JIoT June 1, 2021 9407-9421*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M., +, JIoT Feb. 1, 2021 1896-1907*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z., +, JIoT April 1, 2021 5149-5163*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F., +, JIoT Jan. 15, 2021 778-790*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L., +, JIoT March 1, 2021 3743-3757*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H., +, JIoT April 1, 2021 5141-5148*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H., +, JIoT June 15, 2021 9664-9671*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X., +, JIoT Feb. 1, 2021 1728-1739*
- Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R., +, JIoT Jan. 15, 2021 916-926*
- Quantization (signal)**
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D., +, JIoT Aug. 1, 2021 12137-12149*
- A Novel Adaptive Gradient Compression Scheme: Reducing the Communication Overhead for Distributed Deep Learning in the Internet of Things. *Luo, P., +, JIoT July 15, 2021 11476-11486*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciunzo, D., +, JIoT June 1, 2021 9059-9071*
- MobiHisNet: A Lightweight CNN in Mobile Edge Computing for Histopathological Image Classification. *Kumar, A., +, JIoT Dec. 15, 2021 17778-17789*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W., +, JIoT Jan. 15, 2021 723-733*
- Quantum computing**
- ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things. *Li, D., +, JIoT May 1, 2021 7229-7240*
- On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. *Suhail, S., +, JIoT Jan. 1, 2021 1-17*
- Query formulation**
- Object Tracking by the Least Spatiotemporal Searches. *Yu, Z., +, JIoT Aug. 15, 2021 12934-12946*
- Query processing**
- A Blockchain-Based Approach for Saving and Tracking Differential-Privacy Cost. *Zhao, Y., +, JIoT June 1, 2021 8865-8882*
- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z., +, JIoT Sept. 15, 2021 14322-14337*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H., +, JIoT Feb. 15, 2021 2444-2458*
- Continuous Probabilistic Skyline Query for Secure Worker Selection in Mobile Crowdsensing. *Zhang, X., +, JIoT July 15, 2021 11758-11772*
- Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z., +, JIoT Aug. 15, 2021 12679-12693*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V., +, JIoT March 1, 2021 3394-3409*
- Energy-Efficient Anomaly Detection With Primary and Secondary Attributes in Edge-Cloud Collaboration Networks. *Li, X., +, JIoT Aug. 1, 2021 12176-12188*
- ESPQuery: An Enhanced Secure Scheme for Privacy-Preserving Query Based on Untrusted Devices in the Internet of Things. *Li, D., +, JIoT May 1, 2021 7229-7240*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H., +, JIoT July 15, 2021 11514-11525*
- Multiple People Identification Through Walls Using Off-the-Shelf WiFi. *Korany, B., +, JIoT April 15, 2021 6963-6974*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S., +, JIoT March 15, 2021 5075-5092*
- Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S., +, JIoT June 1, 2021 9139-9150*
- Querying the IoT Using Multiresolution Contexts. *Diamantini, C., +, JIoT April 1, 2021 6127-6139*
- Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y., +, JIoT July 15, 2021 11163-11176*
- Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y., +, JIoT Sept. 15, 2021 14219-14231*
- Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X., +, JIoT Aug. 15, 2021 12902-12918*
- Using Reduced Paths to Achieve Efficient Privacy-Preserving Range Query in Fog-Based IoT. *Mahdikhani, H., +, JIoT March 15, 2021 4762-4774*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P., +, JIoT July 1, 2021 10367-10389*
- Queueing theory**
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z., +, JIoT Feb. 15, 2021 2208-2225*

- Age of Information and Performance Analysis for UAV-Aided IoT Systems. *Han, R.*, +, *JIoT Oct. 1, 2021 14447-14457*
- Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*
- AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z.*, +, *JIoT Oct. 1, 2021 14559-14571*
- Delay Characterization of Mobile-Edge Computing for 6G Time-Sensitive Services. *Cao, J.*, +, *JIoT March 1, 2021 3758-3773*
- Discrete-Time Queueing Model of Age of Information With Multiple Information Sources. *Akar, N.*, +, *JIoT Oct. 1, 2021 14531-14542*
- Distributed Probabilistic Offloading in Edge Computing for 6G-Enabled Massive Internet of Things. *Liao, Z.*, +, *JIoT April 1, 2021 5298-5308*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*
- In.IoT—A New Middleware for Internet of Things. *da Cruz, M.A.A.*, +, *JIoT May 15, 2021 7902-7911*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y.*, +, *JIoT May 1, 2021 7126-7139*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space–Air–Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y.*, +, *JIoT Sept. 15, 2021 14051-14065*
- On Fast Retrial for Two-Step Random Access in MTC. *Choi, J.*, *JIoT Feb. 1, 2021 1428-1436*
- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*
- Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q.*, +, *JIoT June 15, 2021 10146-10159*
- Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L.*, +, *JIoT July 15, 2021 11329-11344*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*

R

Radar antennas

- A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z.*, +, *JIoT Jan. 1, 2021 418-427*

Radar computing

- Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M.*, +, *JIoT July 15, 2021 11594-11606*

Radar detection

- Cognitive GPR for Subsurface Object Detection Based on Deep Reinforcement Learning. *Omwenga, M.M.*, +, *JIoT July 15, 2021 11594-11606*
- Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R.*, +, *JIoT Feb. 15, 2021 2517-2539*

Radar imaging

- Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R.*, +, *JIoT Feb. 15, 2021 2517-2539*
- Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A.*, +, *JIoT Oct. 1, 2021 14719-14730*
- TinyRadarNN: Combining Spatial and Temporal Convolutional Neural Networks for Embedded Gesture Recognition With Short Range Radars. *Scherer, M.*, +, *JIoT July 1, 2021 10336-10346*

Radar receivers

- Early Gesture Recognition With Reliable Accuracy Based on High-Resolution IoT Radar Sensors. *Min, R.*, +, *JIoT Oct. 15, 2021 15396-15406*

Radar resolution

- An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. *Zheng, J.*, +, *JIoT Oct. 15, 2021 15372-15381*

Radar signal processing

- A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*

Radar target recognition

- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J.*, +, *JIoT Aug. 1, 2021 12350-12359*

Radial basis function networks

- A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*

- Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*

- Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L.*, +, *JIoT Sept. 1, 2021 13355-13366*

Radio access networks

- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*

- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*

- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*

- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M.*, +, *JIoT Oct. 15, 2021 15205-15215*

- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*

- Enhanced Random Access for Massive-Machine-Type Communications. *Lee, B.*, +, *JIoT April 15, 2021 7046-7064*

- Fair Pricing in Heterogeneous Internet-of-Things Wireless Access Networks Using Crowdsourcing. *Haghighatdoost, V.*, +, *JIoT April 1, 2021 5710-5721*

- Intelligent Network Selection Algorithm for Multiservice Users in 5G Heterogeneous Network System: Nash Q -Learning Method. *Ma, M.*, +, *JIoT Aug. 1, 2021 11877-11890*

- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*

- Large-Scale LoRa Networks: A Mode Adaptive Protocol. *Fernandes, R.*, +, *JIoT Sept. 1, 2021 13487-13502*

- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*

- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*

- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*

- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*

- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*

- Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*

- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*

Radio access technologies

- SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V.*, +, *JIoT Nov. 15, 2021 16637-16652*

Radio direction-finding

- Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A.*, +, *JIoT Oct. 1, 2021 14719-14730*

Radio equipment

DM-COM: Combining Device-to-Device and MU-MIMO Communications for Cellular Networks. *Sangdeh, P.K.*, +, *JIoT Sept. 1, 2021 13516-13527*

RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*

Radio frequency

End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H.*, +, *JIoT Dec. 15, 2021 17356-17371*

Radio links

Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M.*, *JIoT Feb. 15, 2021 2585-2602*

Age-of-Information-Based Host Selection for Mobile User Provided Networks. *Nakayama, Y.*, +, *JIoT Jan. 15, 2021 672-683*

Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C.*, +, *JIoT Feb. 15, 2021 2694-2711*

Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*

Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*

Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*

Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J.*, +, *JIoT Oct. 15, 2021 15284-15291*

Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*

Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T.*, +, *JIoT June 15, 2021 10160-10169*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Radio networks

A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M.*, +, *JIoT March 15, 2021 4373-4388*

A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*

A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*

A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*

A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*

A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*

A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H.*, +, *JIoT Oct. 1, 2021 14705-14718*

Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*

Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y.*, +, *JIoT July 1, 2021 10896-10910*

Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*

An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A.*, +, *JIoT Oct. 1, 2021 14607-14622*

An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*

Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks. *Choi, H.*, +, *JIoT Feb. 1, 2021 1611-1622*

Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A.*, +, *JIoT Aug. 1, 2021 11860-11876*

Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems. *Seo, H.*, +, *JIoT Jan. 1, 2021 129-143*

Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*

Covert Communication in Relay-Assisted IoT Systems. *Gao, C.*, +, *JIoT April 15, 2021 6313-6323*

Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*

Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*

Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation. *Li, G.*, +, *JIoT Jan. 1, 2021 357-369*

Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*

Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*

Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B.*, +, *JIoT Feb. 1, 2021 1830-1845*

Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*

Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*

Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H.*, +, *JIoT Sept. 1, 2021 13397-13413*

Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things. *Li, Y.*, +, *JIoT March 15, 2021 4514-4525*

LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*

Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*

Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y.*, +, *JIoT Sept. 15, 2021 14051-14065*

Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*

Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*

Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F.*, +, *JIoT April 1, 2021 5211-5218*

Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L.*, +, *JIoT July 1, 2021 10518-10530*

Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*

Quasi-Distributed Fiber-Optic Acoustic Sensing With MIMO Technology. *Jiang, J.*, +, *JIoT Oct. 15, 2021 15284-15291*

Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X.*, +, *JIoT Sept. 15, 2021 14171-14186*

Reinforcement Learning Meets Wireless Networks: A Layering Perspective. *Chen, Y.*, +, *JIoT Jan. 1, 2021 85-111*

Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*

RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S.*, +, *JIoT Oct. 1, 2021 14860-14873*

Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaikhan, A.*, +, *JIoT April 1, 2021 6039-6052*

Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *Abkenar, F.S.*, +, *JIoT March 1, 2021 3875-3884*

Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L.*, +, *JIoT July 15, 2021 11329-11344*

Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*

URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*

Wireless Energy Sharing for Maximizing Lifetime of Linear Multihop Communications. *Choi, H.*, +, *JIoT Aug. 1, 2021 12189-12202*

Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*

Radio receivers

A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C.*, +, *JIoT March 1, 2021 3331-3345*

A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F.*, +, *JIoT Feb. 15, 2021 2468-2482*

An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*

Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. *Lee, C.*, +, *JIoT May 15, 2021 8291-8303*

Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*

Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S.*, +, *JIoT Jan. 15, 2021 989-1000*

LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. *Guo, X.*, +, *JIoT April 15, 2021 6665-6676*

mmEye: Super-Resolution Millimeter Wave Imaging. *Zhang, F.*, +, *JIoT April 15, 2021 6995-7008*

Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M.*, +, *JIoT Aug. 1, 2021 12375-12383*

On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O.*, +, *JIoT July 15, 2021 11581-11593*

Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*

Single Sensor to Estimate DOA With Programmable Metasurface. *Lin, M.*, +, *JIoT June 15, 2021 10187-10197*

Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S.*, +, *JIoT June 15, 2021 10085-10102*

Radio spectrum management

A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D.*, +, *JIoT Aug. 15, 2021 12880-12891*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H.*, +, *JIoT July 15, 2021 11208-11218*

An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M.*, +, *JIoT Sept. 1, 2021 13414-13424*

Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*

Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S.*, +, *JIoT April 15, 2021 6498-6518*

Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *Shi, Z.*, +, *JIoT March 1, 2021 3476-3489*

Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K.*, +, *JIoT Feb. 1, 2021 1347-1357*

Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*

Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*

Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R.*, +, *JIoT Sept. 1, 2021 13593-13607*

Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A.*, +, *JIoT March 15, 2021 4461-4471*

Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D.*, +, *JIoT June 1, 2021 9330-9343*

Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. *Dong, X.*, +, *JIoT May 15, 2021 8032-8043*

Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*

Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*

Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*

The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F.*, +, *JIoT Sept. 1, 2021 13266-13277*

Radio tracking

Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F.*, +, *JIoT March 15, 2021 4228-4249*

Radio transceivers

An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z.*, +, *JIoT Oct. 1, 2021 14756-14772*

Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*

Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H.*, +, *JIoT Oct. 1, 2021 14458-14470*

Multiple People Identification Through Walls Using Off-the-Shelf WiFi. *Korany, B.*, +, *JIoT April 15, 2021 6963-6974*

Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W.*, +, *JIoT Oct. 15, 2021 15070-15080*

Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L.*, +, *JIoT May 15, 2021 7912-7924*

Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P.*, +, *JIoT May 15, 2021 7745-7767*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Radio transmitters

A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M.*, +, *JIoT March 15, 2021 4373-4388*

A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F.*, +, *JIoT Feb. 15, 2021 2468-2482*

LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. *Guo, X.*, +, *JIoT April 15, 2021 6665-6676*

Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M.*, +, *JIoT Aug. 1, 2021 12375-12383*

On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*

Radio-over-fiber

Toward 6G Internet of Things and the Convergence With RoF System. *Chen, N.*, +, *JIoT June 1, 2021 8719-8733*

Radiocommunication

Directional Modulation Design Under a Given Symbol-Independent Magnitude Constraint for Secure IoT Networks. *Zhang, B.*, +, *JIoT Oct. 15, 2021 15140-15147*

Massive Wireless Energy Transfer: Enabling Sustainable IoT Toward 6G Era. *Lopez, O.L.A.*, +, *JIoT June 1, 2021 8816-8835*

Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM. *Reising, D.*, +, *JIoT May 15, 2021 8356-8371*

Radiofrequency identification

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*

- Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F.*, +, *JIoT March 15, 2021 4228-4249*
- DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D.*, +, *JIoT July 15, 2021 11666-11677*
- Efficient Data Access Control With Fine-Grained Data Protection in Cloud-Assisted IIoT. *Qi, S.*, +, *JIoT Feb. 15, 2021 2886-2899*
- Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems. *Xi, Z.*, +, *JIoT Feb. 1, 2021 1651-1661*
- Fully Passive-Printed Wireless Wear Sensor. *Serdah, M.*, +, *JIoT April 15, 2021 7036-7045*
- Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. *Eid, A.*, +, *JIoT Oct. 1, 2021 14719-14730*
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H.*, +, *JIoT March 15, 2021 4329-4338*
- Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. *Shi, W.*, +, *JIoT Oct. 1, 2021 14572-14588*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*
- Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S.*, +, *JIoT Sept. 1, 2021 13763-13773*
- Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP. *Wan, G.C.*, +, *JIoT May 1, 2021 7476-7484*
- Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*
- Privacy-Preserving Group Authentication for RFID Tags Using Bit-Collision Patterns. *Yang, A.*, +, *JIoT July 15, 2021 11607-11620*
- Real-Time Task Scheduling on Intermittently Powered Batteryless Devices. *Karimi, M.*, +, *JIoT Sept. 1, 2021 13328-13342*
- ReType: Your Breath Tells Your Mind!. *Wang, Q.*, +, *JIoT June 1, 2021 9436-9449*
- RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*
- RF-RVM: Continuous Respiratory Volume Monitoring With COTS RFID Tags. *Chang, X.*, +, *JIoT Aug. 15, 2021 12892-12901*
- RFID Reader Anticollision Based on Distributed Parallel Particle Swarm Optimization. *Cao, B.*, +, *JIoT March 1, 2021 3099-3107*
- Setup-Independent UHF RFID Sensing Technique Using Multidimensional Differential Measurement. *Zhang, X.*, +, *JIoT July 1, 2021 10509-10517*
- Toward a Low-Cost Software-Defined UHF RFID System for Distributed Parallel Sensing. *Wang, Y.*, +, *JIoT Sept. 1, 2021 13664-13676*
- Radiofrequency interconnections**
- Fully Passive-Printed Wireless Wear Sensor. *Serdah, M.*, +, *JIoT April 15, 2021 7036-7045*
- Radiofrequency interference**
- A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H.*, +, *JIoT July 15, 2021 11208-11218*
- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J.*, +, *JIoT April 1, 2021 5531-5543*
- Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X.*, +, *JIoT Aug. 1, 2021 12093-12105*
- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D.*, +, *JIoT June 1, 2021 9059-9071*
- Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M.*, +, *JIoT Oct. 15, 2021 15205-15215*
- FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices. *Wang, Y.*, +, *JIoT Aug. 1, 2021 12455-12466*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021 8399-8410*
- Joint Optimization of UAV 3-D Placement and Path-Loss Factor for Energy-Efficient Maximal Coverage. *Shakoor, S.*, +, *JIoT June 15, 2021 9776-9786*
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W.*, +, *JIoT June 15, 2021 9934-9944*
- Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. *Liu, J.*, +, *JIoT March 15, 2021 4389-4402*
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T.*, +, *JIoT Oct. 15, 2021 15334-15348*
- On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O.*, +, *JIoT July 15, 2021 11581-11593*
- Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*
- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H.*, +, *JIoT April 1, 2021 5632-5644*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Robust Design for Integrated Satellite–Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y.*, +, *JIoT Oct. 1, 2021 14908-14919*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T.*, +, *JIoT June 15, 2021 10160-10169*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L.*, +, *JIoT May 15, 2021 7912-7924*
- UAV-Aided Cellular Operation by User Offloading. *Ali, M.A.*, +, *JIoT June 15, 2021 9855-9864*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X.*, +, *JIoT Oct. 15, 2021 15049-15058*
- Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*
- Vulnerability of WiFi's Noise Floor Calibration. *Kim, S.*, +, *JIoT May 15, 2021 8504-8513*
- Radiofrequency power transmission**
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*

Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F.*, +, *JIoT March 1, 2021 3678-3688*

Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R.*, +, *JIoT March 15, 2021 4697-4710*

Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12266-12278*

On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer. *Lopez, O.L.A.*, +, *JIoT Jan. 1, 2021 278-296*

Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H.*, +, *JIoT April 1, 2021 5632-5644*

Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*

Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*

Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X.*, +, *JIoT Jan. 1, 2021 528-540*

Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*

Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D.*, +, *JIoT July 1, 2021 10543-10556*

Radionavigation

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M.*, +, *JIoT Oct. 15, 2021 15117-15125*

A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F.*, +, *JIoT April 15, 2021 6519-6535*

Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R.*, +, *JIoT Aug. 15, 2021 12955-12967*

GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. *Zhao, Y.*, +, *JIoT Jan. 1, 2021 393-406*

Online Collaborative Localization. *Zhou, C.*, +, *JIoT Feb. 15, 2021 2712-2721*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Radiowave propagation

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M.*, +, *JIoT Oct. 15, 2021 15117-15125*

Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*

Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G.*, +, *JIoT Sept. 1, 2021 13774-13788*

Online Collaborative Localization. *Zhou, C.*, +, *JIoT Feb. 15, 2021 2712-2721*

You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1197-1210*

Rail traffic

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*

Railway communication

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*

Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

Optimization of Time-Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C.*, +, *JIoT March 15, 2021 4788-4801*

Railway engineering

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*

Railway rolling stock

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*

Railway safety

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*

Railways

Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log. *Figuerola-Lorenzo, S.*, +, *JIoT Sept. 1, 2021 13306-13315*

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T.*, +, *JIoT March 1, 2021 3939-3954*

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A.*, +, *JIoT June 1, 2021 9397-9406*

Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*

Rainfall

Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N.*, +, *JIoT May 1, 2021 7270-7278*

Random codes

Novel Solutions to NOMA-Based Modern Random Access for 6G-Enabled IoT. *Ma, Y.*, +, *JIoT Oct. 15, 2021 15382-15395*

On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J.*, +, *JIoT Feb. 1, 2021 1492-1503*

Random forests

A Data Set Accuracy Weighted Random Forest Algorithm for IoT Fault Detection Based on Edge Computing and Blockchain. *Zhang, W.*, +, *JIoT Feb. 15, 2021 2354-2363*

Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*

Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*

Random noise

Reinforcement-Learning-Based Query Optimization in Differentially Private IoT Data Publishing. *Jiang, Y.*, +, *JIoT July 15, 2021 11163-11176*

Random number generation

A Hydrogen Concentration Monitoring System With Passive Tags. *Li, G.*, +, *JIoT June 1, 2021 9244-9256*

Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*

Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*

RFID Reader Anticollision Based on Distributed Parallel Particle Swarm Optimization. *Cao, B.*, +, *JIoT March 1, 2021 3099-3107*

Random processes

Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*

IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*

ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Feb. 1, 2021 1294-1307*

Random sequences

Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*

Randomized algorithms

Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S.*, +, *JIoT Jan. 15, 2021 1095-1108*

Ray tracing

Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J.*, +, *JIoT April 1, 2021 5531-5543*

Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K.*, +, *JIoT Oct. 1, 2021 14810-14821*

Rayleigh channels

Adaptive Mini-Batch Gradient-Ascent-Based Localization for Indoor IoT Networks Under Rayleigh Fading Conditions. *Pandey, A.*, +, *JIoT July 1, 2021 10665-10677*

Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F.*, +, *JIoT Dec. 15, 2021 17596-17610*

Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*

Slope-Shift Keying LoRa-Based Modulation. *Hanif, M., +, JIoT Jan. 1, 2021 211-221*

Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U., +, JIoT Jan. 1, 2021 443-457*

RC circuits

QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*

Real-time systems

5G IoT System for Real-Time Psycho-Acoustic Soundscape Monitoring in Smart Cities With Dynamic Computational Offloading to the Edge. *Segura-Garcia, J., +, JIoT Aug. 1, 2021 12467-12475*

Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L., +, JIoT Aug. 15, 2021 12578-12587*

Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J., +, JIoT May 1, 2021 7727-7744*

Digital Twin for Intelligent Context-Aware IoT Healthcare Systems. *Elayan, H., +, JIoT Dec. 1, 2021 16749-16757*

Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K., +, JIoT June 15, 2021 9753-9762*

Energy-Efficient and Real-Time NOMA Scheduling in IoT-Based Three-Tier WBANs. *Askari, Z., +, JIoT Sept. 15, 2021 13975-13990*

Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. *Debbah, M., +, JIoT June 15, 2021 9774-9775*

IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J., +, JIoT Aug. 15, 2021 12771-12781*

Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks. *Xiao, H., +, JIoT Sept. 15, 2021 13926-13938*

Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A., +, JIoT Nov. 1, 2021 16108-16120*

Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S., +, JIoT June 15, 2021 10010-10017*

Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X., +, JIoT Feb. 15, 2021 2722-2735*

Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U., +, JIoT Dec. 15, 2021 17333-17344*

PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B., +, JIoT Dec. 15, 2021 17584-17595*

Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L., +, JIoT May 15, 2021 8246-8258*

Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X., +, JIoT Nov. 1, 2021 15929-15938*

Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. *Fortino, G., +, JIoT July 1, 2021 10220-10221*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C., +, JIoT July 1, 2021 10619-10630*

Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H., +, JIoT April 15, 2021 6692-6708*

Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H., +, JIoT Dec. 15, 2021 17734-17746*

When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multiscale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S., +, JIoT Feb. 15, 2021 2238-2251*

Receivers

Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W., +, JIoT Nov. 15, 2021 16705-16717*

Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K., +, JIoT Dec. 15, 2021 17476-17494*

Frequency-Shift Chirp Spread Spectrum Communications With Index Modulation. *Hanif, M., +, JIoT Dec. 15, 2021 17611-17621*

Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X., +, JIoT Nov. 1, 2021 15939-15952*

Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F., +, JIoT Dec. 15, 2021 17669-17677*

Receiving antennas

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z., +, JIoT Jan. 1, 2021 418-427*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S., +, JIoT June 1, 2021 9099-9108*

Recommender systems

A Privacy-Preserving Optimization of Neighborhood-Based Recommendation for Medical-Aided Diagnosis and Treatment. *Zhang, M., +, JIoT July 1, 2021 10830-10842*

A Social-Relationships-Based Service Recommendation System for SIoT Devices. *Khelloufi, A., +, JIoT Feb. 1, 2021 1859-1870*

Deep-Reinforcement-Learning-Based User Profile Perturbation for Privacy-Aware Recommendation. *Xiao, Y., +, JIoT March 15, 2021 4560-4568*

IoT-Based Approaches for Monitoring the Particulate Matter and Its Impact on Health. *Divan, M.J., +, JIoT Aug. 1, 2021 11983-12003*

Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City. *Hu, H., +, JIoT June 15, 2021 9539-9548*

Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y., +, JIoT May 15, 2021 8223-8233*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C., +, JIoT July 1, 2021 10619-10630*

TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems. *Xu, G., +, JIoT June 15, 2021 9559-9567*

Reconnaissance

Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z., +, JIoT Dec. 15, 2021 17290-17307*

The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D., +, JIoT Dec. 15, 2021 17525-17540*

Recording

Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H., +, JIoT June 15, 2021 10117-10130*

Records management

Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P., +, JIoT Feb. 15, 2021 2150-2162*

Rectennas

Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S., +, JIoT April 1, 2021 5850-5865*

Rectification

Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F., +, JIoT March 1, 2021 3678-3688*

Recurrent neural networks

Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H., +, JIoT April 1, 2021 5544-5557*

Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R., +, JIoT June 1, 2021 8964-8975*

Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J., +, JIoT March 15, 2021 4628-4641*

Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W., +, JIoT April 1, 2021 5374-5385*

Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y., +, JIoT April 15, 2021 6348-6358*

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A., +, JIoT July 15, 2021 11016-11040*

Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H., +, JIoT Oct. 1, 2021 14787-14796*

Heterogeneous Task Offloading and Resource Allocations via Deep Recurrent Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J., +, JIoT Jan. 15, 2021 1041-1056*

- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multi-type Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magaia, N.*, +, *JIoT April 15, 2021 6393-6405*
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J.*, +, *JIoT Jan. 15, 2021 951-961*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y.*, +, *JIoT Feb. 15, 2021 2762-2774*
- Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*
- Reduced instruction set computing**
- Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K.*, +, *JIoT March 15, 2021 4642-4656*
- Redundancy**
- Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A.*, +, *JIoT Dec. 15, 2021 17395-17402*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L.*, +, *JIoT May 1, 2021 7485-7496*
- Regression analysis**
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H.*, +, *JIoT Jan. 1, 2021 197-210*
- Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K.*, +, *JIoT June 1, 2021 9257-9267*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J.*, +, *JIoT Oct. 1, 2021 14623-14637*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*
- Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*
- Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malar-ski, K.M.*, +, *JIoT April 15, 2021 6746-6756*
- Regulation**
- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H.*, +, *JIoT Nov. 1, 2021 15829-15838*
- Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H.*, +, *JIoT Dec. 1, 2021 17100-17110*
- Reinforcement learning**
- A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y.*, +, *JIoT Nov. 15, 2021 16219-16230*
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M.*, +, *JIoT Dec. 15, 2021 17275-17289*
- Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W.*, +, *JIoT March 1, 2021 3053-3056*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J.*, +, *JIoT Dec. 15, 2021 17417-17428*
- Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*
- Relay networks (telecommunication)**
- A Deep-Neural-Network-Based Relay Selection Scheme in Wireless-Powered Cognitive IoT Networks. *Nguyen, T.*, +, *JIoT May 1, 2021 7423-7436*
- A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*
- A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F.*, +, *JIoT Feb. 15, 2021 2468-2482*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*
- Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*
- BMADS: BLE Mesh Asynchronous Dynamic Scanning. *Perez-Diaz-de-Cerio, D.*, +, *JIoT Feb. 15, 2021 2558-2573*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Covert Communication in Relay-Assisted IoT Systems. *Gao, C.*, +, *JIoT April 15, 2021 6313-6323*
- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Full-Duplex Nonorthogonal Multiple Access With Layers-Based Optimized Mobile Relays Subsets Algorithm in B5G/6G Ubiquitous Networks. *Huang, H.*, +, *JIoT Oct. 15, 2021 15081-15095*
- Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S.*, +, *JIoT Jan. 15, 2021 989-1000*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D.*, +, *JIoT July 15, 2021 11487-11502*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y.*, +, *JIoT Feb. 15, 2021 2792-2801*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J.*, +, *JIoT Oct. 15, 2021 15126-15139*
- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y.*, +, *JIoT Jan. 15, 2021 791-801*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D.*, +, *JIoT March 15, 2021 5045-5061*
- Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C.*, +, *JIoT July 15, 2021 11249-11259*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*

SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*

URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A., +, JIoT March 15, 2021 4618-4627*

You Foot the Bill! Attacking NFC With Passive Relays. *Sun, Y., +, JIoT Jan. 15, 2021 1197-1210*

Relays

End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H., +, JIoT Dec. 15, 2021 17356-17371*

Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K., +, JIoT Dec. 15, 2021 17476-17494*

Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X., +, JIoT Dec. 15, 2021 17802-17816*

Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F., +, JIoT Nov. 15, 2021 16653-16665*

Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H., +, JIoT Dec. 1, 2021 17211-17226*

Reliability

Cascading Failures in Internet of Things: Review and Perspectives on Reliability and Resilience. *Xing, L., JIoT Jan. 1, 2021 44-64*

Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A., +, JIoT Nov. 1, 2021 15704-15748*

End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*

Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W., +, JIoT March 1, 2021 3053-3056*

NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things. *Awan, K.A., +, JIoT Nov. 1, 2021 15672-15682*

Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F., +, JIoT Dec. 15, 2021 17596-17610*

PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B., +, JIoT Dec. 15, 2021 17584-17595*

Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A., +, JIoT Nov. 15, 2021 16613-16622*

The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M., +, JIoT Dec. 1, 2021 16984-16999*

Reliability theory

End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*

Remaining life assessment

Cloud-Edge-Based Lightweight Temporal Convolutional Networks for Remaining Useful Life Prediction in IIoT. *Ren, L., +, JIoT Aug. 15, 2021 12578-12587*

Distributed Attention-Based Temporal Convolutional Network for Remaining Useful Life Prediction. *Song, Y., +, JIoT June 15, 2021 9594-9602*

Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. *Wen, P., +, JIoT June 1, 2021 9045-9058*

Remote sensing

Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P., +, JIoT March 1, 2021 3287-3299*

Remotely operated vehicles

Age of Information and Performance Analysis for UAV-Aided IoT Systems. *Han, R., +, JIoT Oct. 1, 2021 14447-14457*

AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z., +, JIoT Oct. 1, 2021 14559-14571*

AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. *Hu, H., +, JIoT Jan. 15, 2021 1211-1223*

AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. *Gao, J., +, JIoT Jan. 1, 2021 428-442*

ATTDC: An Active and Traceable Trust Data Collection Scheme for Industrial Security in Smart Cities. *Shen, M., +, JIoT April 15, 2021 6437-6453*

Joint Sensing Task Assignment and Collision-Free Trajectory Optimization for Mobile Vehicle Networks Using Mean-Field Games. *Kang, Y., +, JIoT May 15, 2021 8488-8503*

Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J., +, JIoT Feb. 1, 2021 1557-1571*

LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z., +, JIoT June 15, 2021 9814-9826*

Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*

Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C., +, JIoT Oct. 15, 2021 15553-15567*

Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A., +, JIoT Feb. 1, 2021 1674-1686*

Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S., +, JIoT June 15, 2021 9838-9854*

Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. *Abichandani, P., +, JIoT Feb. 1, 2021 1783-1796*

The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L., +, JIoT March 1, 2021 3743-3757*

Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrafilian, O., +, JIoT June 15, 2021 9894-9904*

UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R., +, JIoT Sept. 1, 2021 13222-13236*

Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H., +, JIoT Sept. 15, 2021 14094-14109*

Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y., +, JIoT July 1, 2021 10356-10366*

Rendering (computer graphics)

Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P., +, JIoT Nov. 1, 2021 15749-15761*

Renewable energy sources

Distributed Deep Reinforcement Learning for Renewable Energy Accommodation Assessment With Communication Uncertainty in Internet of Energy. *Fang, D., +, JIoT May 15, 2021 8557-8569*

Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I., +, JIoT May 15, 2021 8423-8436*

Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G., +, JIoT May 15, 2021 8543-8556*

Rescue robots

Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*

Resistive RAM

High-Throughput, Area-Efficient, and Variation-Tolerant 3-D In-Memory Compute System for Deep Convolutional Neural Networks. *Veluri, H., +, JIoT June 1, 2021 9219-9232*

Resonators

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M., +, JIoT March 15, 2021 5101-5110*

Resource allocation

A Bayesian Q -Learning Game for Dependable Task Offloading Against DDoS Attacks in Sensor Edge Cloud. *Liu, J., +, JIoT May 1, 2021 7546-7561*

A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. *Hassija, V., +, JIoT Feb. 15, 2021 2409-2418*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H., +, JIoT July 15, 2021 11208-11218*

A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D., +, JIoT Aug. 1, 2021 12137-12149*

- A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S.*, +, *JIoT Feb. 1, 2021 1358-1372*
- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*
- A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- A Review of Internet of Things—Resource Allocation. *Li, X.*, +, *JIoT June 1, 2021 8657-8666*
- A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *Ali, B.*, +, *JIoT March 1, 2021 3822-3830*
- Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L.*, +, *JIoT Jan. 1, 2021 626-635*
- AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT. *Lin, K.*, +, *JIoT April 1, 2021 5264-5273*
- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M.*, +, *JIoT Sept. 1, 2021 13414-13424*
- Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*
- Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*
- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. *He, Y.*, +, *JIoT Feb. 15, 2021 2226-2237*
- Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. *Iqbal, S.*, +, *JIoT Oct. 1, 2021 14746-14755*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z.*, +, *JIoT April 15, 2021 6733-6745*
- Centralized and Distributed Age of Information Minimization With Nonlinear Aging Functions in the Internet of Things. *Park, T.*, +, *JIoT May 15, 2021 8437-8455*
- CL-ADMM: A Cooperative-Learning-Based Optimization Framework for Resource Management in MEC. *Zhong, X.*, +, *JIoT May 15, 2021 8191-8209*
- Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*
- Collaborative Computation Offloading and Resource Allocation in Multi-UAV-Assisted IoT Networks: A Deep Reinforcement Learning Approach. *Seid, A.M.*, +, *JIoT Aug. 1, 2021 12203-12218*
- ComFlex: Composable and Flexible Resource Management for the IoT. *Lee, G.*, +, *JIoT Nov. 15, 2021 16406-16417*
- Communication-Efficient Federated Learning and Permissioned Blockchain for Digital Twin Edge Networks. *Lu, Y.*, +, *JIoT Feb. 15, 2021 2276-2288*
- Computation Offloading and Wireless Resource Management for Healthcare Monitoring in Fog-Computing-Based Internet of Medical Things. *Qiu, Y.*, +, *JIoT Nov. 1, 2021 15875-15883*
- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*
- Computation Offloading via Sinkhorn's Matrix Scaling for Edge Services. *Wang, L.*, +, *JIoT May 15, 2021 8097-8106*
- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- D2D-Enabled Mobile-Edge Computation Offloading for Multiuser IoT Network. *Yang, Y.*, +, *JIoT Aug. 15, 2021 12490-12504*
- Data-Driven Optimization for Cooperative Edge Service Provisioning With Demand Uncertainty. *Li, L.*, +, *JIoT March 15, 2021 4317-4328*
- Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*
- Deep Multiagent Reinforcement-Learning-Based Resource Allocation for Internet of Controllable Things. *Gu, B.*, +, *JIoT March 1, 2021 3066-3074*
- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K.*, +, *JIoT Feb. 1, 2021 1347-1357*
- Design, Resource Management, and Evaluation of Fog Computing Systems: A Survey. *Martinez, I.*, +, *JIoT Feb. 15, 2021 2494-2516*
- Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. *Zhang, X.*, +, *JIoT July 1, 2021 10264-10279*
- Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L.*, +, *JIoT Feb. 15, 2021 2330-2341*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021 9920-9933*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S.*, +, *JIoT Jan. 15, 2021 976-988*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Efficient Parallel Secure Outsourcing of Modular Exponentiation to Cloud for IoT Applications. *Hu, Q.*, +, *JIoT Aug. 15, 2021 12782-12791*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J.*, +, *JIoT May 15, 2021 8570-8584*
- Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X.*, +, *JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. *Yang, L.*, +, *JIoT Feb. 15, 2021 2318-2329*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*
- Energy-Efficient Task Offloading and Resource Allocation via Deep Reinforcement Learning for Augmented Reality in Mobile Edge Networks. *Chen, X.*, +, *JIoT July 1, 2021 10843-10856*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- Enhanced Random Access for Massive-Machine-Type Communications. *Lee, B.*, +, *JIoT April 15, 2021 7046-7064*

- Ensemble Meteorological Cloud Classification Meets Internet of Dependable and Controllable Things. *Zhang, J.*, +, *JIoT March 1, 2021 3323-3330*
- Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. *Nguyen, D.C.*, +, *JIoT Aug. 15, 2021 12806-12825*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*
- Heterogeneous Task Offloading and Resource Allocations via Deep Recurrent Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J.*, +, *JIoT Jan. 15, 2021 1041-1056*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z.*, +, *JIoT July 1, 2021 10940-10952*
- IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*
- Incentive-Based Coded Distributed Computing Management for Latency Reduction in IoT Services—A Game Theoretic Approach. *Kim, N.*, +, *JIoT May 15, 2021 8259-8278*
- Incentivizing Platform–User Interactions for Crowdsensing. *Xiang, C.*, +, *JIoT May 15, 2021 8314-8327*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X.*, +, *JIoT June 15, 2021 9511-9522*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D.*, +, *JIoT July 15, 2021 11487-11502*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space–Air–Ground-Integrated Power IoT. *Liao, H.*, +, *JIoT April 1, 2021 5250-5263*
- Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things. *Li, Y.*, +, *JIoT March 15, 2021 4514-4525*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- Many-to-Many Matching-Theory-Based Dynamic Bandwidth Allocation for UAVs. *Zhang, Q.*, +, *JIoT June 15, 2021 9995-10009*
- Matching-Theory-Based Low-Latency Scheme for Multitask Federated Learning in MEC Networks. *Chen, D.*, +, *JIoT July 15, 2021 11415-11426*
- Matchmaker: Stable Task Assignment With Bounded Constraints for Crowdsourcing Platforms. *Yin, X.*, +, *JIoT Feb. 1, 2021 1599-1610*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C.*, +, *JIoT Aug. 15, 2021 12705-12715*
- Modeling Data Redundancy and Cost-Aware Task Allocation in MEC-Enabled Internet-of-Vehicles Applications. *Nguyen, T.D.T.*, +, *JIoT Feb. 1, 2021 1687-1701*
- Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C.*, +, *JIoT Oct. 15, 2021 15553-15567*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A.*, +, *JIoT March 1, 2021 3410-3421*
- Multiarmed-Bandit-Based Decentralized Computation Offloading in Fog-Enabled IoT. *Misra, S.*, +, *JIoT June 15, 2021 10010-10017*
- Multibuffers Multiobjects Optimal Matching Scheme for Edge Devices in IIoT. *Wu, H.*, +, *JIoT July 15, 2021 11514-11525*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- Networking Integrated Cloud–Edge–End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. *Qiu, C.*, +, *JIoT Aug. 15, 2021 12694-12704*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*
- On-Device Learning Systems for Edge Intelligence: A Software and Hardware Synergy Perspective. *Zhou, Q.*, +, *JIoT Aug. 1, 2021 11916-11934*
- Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach. *Yuan, H.*, +, *JIoT Oct. 1, 2021 14985-14998*
- Optimization of Time–Frequency Resource Management Based on Probabilistic Graphical Models in Railway Internet-of-Things Networking. *Wang, C.*, +, *JIoT March 15, 2021 4788-4801*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*
- Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D.*, +, *JIoT Sept. 1, 2021 13196-13208*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X.*, +, *JIoT Feb. 15, 2021 2722-2735*
- Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications. *Nie, X.*, +, *JIoT Oct. 15, 2021 15317-15333*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*
- Quasi-Optimization of Uplink Power for Enabling Green URLLC in Mobile UAV-Assisted IoT Networks: A Perturbation-Based Approach. *Ranjha, A.*, +, *JIoT Feb. 1, 2021 1674-1686*
- Resource Allocation and 3-D Placement for UAV-Enabled Energy-Efficient IoT Communications. *Liu, Y.*, +, *JIoT Feb. 1, 2021 1322-1333*
- Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. *Li, G.*, +, *JIoT Sept. 15, 2021 14385-14398*
- Resource Management for Computation Offloading in D2D-Aided Wireless Powered Mobile-Edge Computing Networks. *Sun, M.*, +, *JIoT May 15, 2021 8005-8020*
- Resource Management for Secure Computation Offloading in Softwarized Cyber–Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaomar, A.*, +, *JIoT July 15, 2021 11088-11099*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*
- Secure and Optimized Load Balancing for Multitier IoT and Edge-Cloud Computing Systems. *Zhang, W.*, +, *JIoT May 15, 2021 8119-8132*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J.*, +, *JIoT June 1, 2021 9407-9421*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X.*, +, *JIoT April 1, 2021 5240-5249*
- Soft Actor–Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*
- Stackelberg Game for Service Deployment of IoT-Enabled Applications in 6G-Aware Fog Networks. *Hazra, A.*, +, *JIoT April 1, 2021 5185-5193*

- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X.*, +, *JIoT Oct. 1, 2021 14959-14970*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*
- The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F.*, +, *JIoT Sept. 1, 2021 13266-13277*
- The Covering-Assignment Problem for Swarm-Powered *Ad Hoc* Clouds: A Distributed 3-D Mapping Usecase. *Costa, L.R.*, +, *JIoT May 1, 2021 7316-7332*
- Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. *Asheralieva, A.*, +, *JIoT Oct. 1, 2021 14874-14895*
- Toward Computing Resource Reservation Scheduling in Industrial Internet of Things. *Liang, F.*, +, *JIoT May 15, 2021 8210-8222*
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W.*, +, *JIoT Sept. 1, 2021 13237-13250*
- Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H.*, +, *JIoT April 15, 2021 6692-6708*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*
- Uplink Resource Allocation for NOMA-Based Hybrid Spectrum Access in 6G-Enabled Cognitive Internet of Things. *Liu, X.*, +, *JIoT Oct. 15, 2021 15049-15058*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L.*, +, *JIoT July 15, 2021 11233-11248*
- When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. *Yu, S.*, +, *JIoT Feb. 15, 2021 2238-2251*
- When Mobile-Edge Computing (MEC) Meets Nonorthogonal Multiple Access (NOMA) for the Internet of Things (IoT): System Design and Optimization. *Du, J.*, +, *JIoT May 15, 2021 7849-7862*
- Resource management**
- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H.*, +, *JIoT Nov. 15, 2021 16349-16358*
- A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*
- A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J.*, +, *JIoT Dec. 15, 2021 17508-17524*
- Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*
- Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A.*, +, *JIoT Dec. 1, 2021 16963-16971*
- Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S.*, +, *JIoT Dec. 15, 2021 17460-17475*
- Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouisse, A.*, +, *JIoT Dec. 1, 2021 16880-16893*
- Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W.*, +, *JIoT March 1, 2021 3053-3056*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S.*, +, *JIoT April 1, 2021 5111-5113*
- High-Performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments. *Zhang, Y.*, +, *JIoT Dec. 1, 2021 16872-16879*
- Joint Virtual Network Topology Design and Embedding for Cyber-twin-Enabled 6G Core Networks. *Li, J.*, +, *JIoT Nov. 15, 2021 16313-16325*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H.*, +, *JIoT Dec. 15, 2021 17541-17556*
- MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J.*, +, *JIoT Dec. 15, 2021 17403-17416*
- Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cyber-twin-Based Networks. *Hou, W.*, +, *JIoT Nov. 15, 2021 16256-16268*
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*
- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H.*, +, *JIoT Dec. 15, 2021 17678-17690*
- Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X.*, +, *JIoT Nov. 1, 2021 15939-15952*
- Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*
- Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P.*, +, *JIoT Nov. 1, 2021 15749-15761*
- Reverse engineering**
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K.*, +, *JIoT April 15, 2021 6815-6827*
- Reviews**
- A Review of Deep Reinforcement Learning for Smart Building Energy Management. *Yu, L.*, +, *JIoT Aug. 1, 2021 12046-12063*
- A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*
- Embedded Intelligence: Platform Technologies, Device Analytics, and Smart City Applications. *Ang, K.L.*, +, *JIoT Sept. 1, 2021 13165-13182*
- RF signals**
- mmHRV: Contactless Heart Rate Variability Monitoring Using Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Nov. 15, 2021 16623-16636*
- Riccati equations**
- Learning Tracking Control for Cyber-Physical Systems. *Wu, C.*, +, *JIoT June 1, 2021 9151-9163*
- Rician channels**
- Channel Estimation Performance Analysis of Massive MIMO IoT Systems With Ricean Fading. *Liu, P.*, +, *JIoT April 1, 2021 6114-6126*
- Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P.*, +, *JIoT Dec. 15, 2021 17655-17668*
- On CSI-Free Multiantenna Schemes for Massive RF Wireless Energy Transfer. *Lopez, O.L.A.*, +, *JIoT Jan. 1, 2021 278-296*
- Risk analysis**
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R.*, +, *JIoT May 1, 2021 7360-7371*
- Risk management**
- A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y.*, +, *JIoT April 1, 2021 6089-6100*
- Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*
- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q.*, +, *JIoT Nov. 1, 2021 15953-15964*
- Road accidents**
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*
- ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*
- Road safety**
- A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*
- A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*

A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N.*, +, *JIoT Jan. 15, 2021 869-880*

Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O.*, +, *JIoT Feb. 15, 2021 2540-2557*

Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*

Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X.*, +, *JIoT Oct. 15, 2021 15180-15190*

EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*

Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular *Ad Hoc* Networks. *Thumbur, G.*, +, *JIoT Feb. 1, 2021 1908-1920*

ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*

Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y.*, +, *JIoT July 15, 2021 11427-11439*

Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. *Khan, S.M.*, +, *JIoT Aug. 15, 2021 13077-13094*

Road traffic

6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*

A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L.*, +, *JIoT Feb. 1, 2021 2066-2077*

A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*

Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y.*, +, *JIoT April 15, 2021 6337-6347*

Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O.*, +, *JIoT Feb. 15, 2021 2540-2557*

Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*

EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*

Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D.*, +, *JIoT Feb. 15, 2021 2976-2991*

Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. *Khan, S.M.*, +, *JIoT Aug. 15, 2021 13077-13094*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C.*, +, *JIoT July 1, 2021 10619-10630*

Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y.*, +, *JIoT Sept. 1, 2021 13316-13327*

Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X.*, +, *JIoT March 15, 2021 4980-4990*

Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K.*, +, *JIoT Aug. 1, 2021 12384-12397*

Road traffic control

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*

Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P.*, +, *JIoT March 1, 2021 3384-3393*

Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y.*, +, *JIoT July 15, 2021 11427-11439*

Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. *Khan, S.M.*, +, *JIoT Aug. 15, 2021 13077-13094*

Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K.*, +, *JIoT Aug. 1, 2021 12384-12397*

Road vehicle radar

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z.*, +, *JIoT Jan. 1, 2021 418-427*

Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B.*, +, *JIoT Oct. 15, 2021 15303-15316*

Road vehicles

A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*

A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. *Zhao, L.*, +, *JIoT Feb. 1, 2021 2066-2077*

A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*

An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12231-12241*

Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O.*, +, *JIoT Feb. 15, 2021 2540-2557*

Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. *Tao, L.*, +, *JIoT July 15, 2021 11548-11560*

Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*

Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X.*, +, *JIoT Oct. 1, 2021 14501-14513*

ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*

FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories. *Ding, Y.*, +, *JIoT Aug. 15, 2021 12505-12517*

H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*

Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y.*, +, *JIoT July 15, 2021 11427-11439*

Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*

Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. *Khan, S.M.*, +, *JIoT Aug. 15, 2021 13077-13094*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C.*, +, *JIoT July 1, 2021 10619-10630*

Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C.*, +, *JIoT Jan. 1, 2021 262-277*

Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J.*, +, *JIoT May 15, 2021 7925-7937*

Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X.*, +, *JIoT March 15, 2021 4526-4539*

Roads

SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K.*, +, *JIoT Nov. 15, 2021 16666-16679*

EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y.*, +, *JIoT Aug. 15, 2021 12734-12747*

Robot dynamics

Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*

Robot sensing systems

Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G.*, +, *JIoT Dec. 15, 2021 17747-17761*

Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J.*, +, *JIoT Nov. 1, 2021 16083-16095*

Robot vision

DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. *Chhikara, P.*, +, *JIoT March 15, 2021 4448-4460*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021 3904-3914*

Robust control

Deep Reinforcement Learning for Scenario-Based Robust Economic Dispatch Strategy in Internet of Energy. *Fang, D.*, +, *JIoT June 15, 2021 9654-9663*

Robustness

GraphComm: Efficient Graph Convolutional Communication for Multiagent Cooperation. *Yuan, Q.*, +, *JIoT Nov. 15, 2021 16359-16369*

MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y.*, +, *JIoT Dec. 1, 2021 16933-16945*

Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A.*, +, *JIoT Nov. 1, 2021 16108-16120*

Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*

Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IoT. *Qiu, M.*, +, *JIoT June 15, 2021 9460-9462*

Routing

A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y.*, +, *JIoT Dec. 1, 2021 17071-17089*

Adaptive Control Packet Broadcasting Scheme for Faster 6TiSCH Network Bootstrapping. *Kalita, A.*, +, *JIoT Dec. 15, 2021 17395-17402*

Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J.*, +, *JIoT Nov. 1, 2021 15663-15671*

Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X.*, +, *JIoT Nov. 15, 2021 16598-16612*

Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F.*, +, *JIoT Nov. 15, 2021 16653-16665*

Routing protocols

A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. *Muzammal, S.M.*, +, *JIoT March 15, 2021 4186-4210*

A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. *He, T.*, +, *JIoT Oct. 15, 2021 15486-15499*

A Novel Heuristic Data Routing for Urban Vehicular *Ad Hoc* Networks. *Hawbani, A.*, +, *JIoT June 1, 2021 8976-8989*

A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*

A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*

Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A.*, +, *JIoT Nov. 15, 2021 16548-16558*

An Adaptive-Location-Based Routing Protocol for 3-D Underwater Acoustic Sensor Networks. *Wang, Q.*, +, *JIoT April 15, 2021 6853-6864*

An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. *Mahyoub, M.*, +, *JIoT May 1, 2021 7152-7169*

Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y.*, +, *JIoT May 15, 2021 8173-8190*

Delay-Aware Green Routing for Mobile-Sink-Based Wireless Sensor Networks. *Jain, S.*, +, *JIoT March 15, 2021 4882-4892*

Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH. *Wang, H.*, +, *JIoT July 1, 2021 10499-10508*

DORA: A Destination-Oriented Routing Algorithm for Energy-Balanced Wireless Sensor Networks. *Wang, K.*, +, *JIoT Feb. 1, 2021 2080-2081*

Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*

Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*

ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices. *Safaei, B.*, +, *JIoT Jan. 15, 2021 1169-1182*

EM-RPL: Enhanced RPL for Multigateway Internet-of-Things Environments. *Taghizadeh, S.*, +, *JIoT May 15, 2021 8474-8487*

Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K.*, +, *JIoT June 15, 2021 9753-9762*

Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. *Yu, C.*, +, *JIoT April 15, 2021 7101-7102*

NUPFA: A Novel Nonuniform Power Formation Algorithm for BLE Mesh Networks. *Yu, C.*, +, *JIoT April 15, 2021 7103-7104*

SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*

SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks. *Yang, N.*, +, *JIoT Aug. 1, 2021 12119-12136*

SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K.*, *JIoT May 1, 2021 7407-7422*

RSSI

6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M.*, +, *JIoT Oct. 15, 2021 15117-15125*

A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning. *Zhang, W.*, +, *JIoT Feb. 1, 2021 1406-1416*

Age-of-Information-Based Host Selection for Mobile User Provided Networks. *Nakayama, Y.*, +, *JIoT Jan. 15, 2021 672-683*

Building Layout Tomographic Reconstruction via Commercial WiFi Signals. *Zhang, Y.*, +, *JIoT Oct. 15, 2021 15500-15511*

Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y.*, +, *JIoT Jan. 15, 2021 1183-1196*

Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J.*, +, *JIoT Oct. 1, 2021 14623-14637*

Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks. *Deese, A.S.*, +, *JIoT Jan. 1, 2021 222-231*

Online Collaborative Localization. *Zhou, C.*, +, *JIoT Feb. 15, 2021 2712-2721*

S

Safety

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*

Object Tracking by the Least Spatiotemporal Searches. *Yu, Z.*, +, *JIoT Aug. 15, 2021 12934-12946*

Safety systems

Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*

REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*

Sampling methods

A Robust Deep-Learning-Enabled Trust-Boundary Protection for Adversarial Industrial IoT Environment. *Hassan, M.M.*, +, *JIoT June 15, 2021 9611-9621*

Satellite broadcasting

The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M.*, +, *JIoT Dec. 1, 2021 16984-16999*

Satellite communication

A Joint Optimization Scheme for Hybrid MAC Layer in LEO Satellite Supported IoT. *Wang, C.*, +, *JIoT Aug. 1, 2021 11822-11833*

Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*

Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B.*, +, *JIoT March 15, 2021 4157-4185*

- Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. *Tang, Q.*, +, *JIoT June 1, 2021 9164-9176*
- Designing Large-Scale Constellations for the Internet of Space Things With CubeSats. *Kak, A.*, +, *JIoT Feb. 1, 2021 1749-1768*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Hybrid Satellite-Terrestrial Communication Networks for the Maritime Internet of Things: Key Technologies, Opportunities, and Challenges. *Wei, T.*, +, *JIoT June 1, 2021 8910-8934*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y.*, +, *JIoT May 1, 2021 7126-7139*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z.*, +, *JIoT June 15, 2021 9981-9994*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y.*, +, *JIoT May 15, 2021 8159-8172*
- QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C.*, +, *JIoT March 15, 2021 4855-4867*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. *Lin, Z.*, +, *JIoT July 15, 2021 11123-11134*
- Satellite navigation**
- Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*
- Satellites**
- The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M.*, +, *JIoT Dec. 1, 2021 16984-16999*
- SCADA systems**
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J.*, +, *JIoT Jan. 15, 2021 951-961*
- Scheduling**
- 6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*
- A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D.*, +, *JIoT March 1, 2021 3587-3604*
- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G.*, +, *JIoT Jan. 15, 2021 684-694*
- A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. *Cai, X.*, +, *JIoT June 15, 2021 9645-9653*
- A Novel Framework for Mobile-Edge Computing by Optimizing Task Offloading. *Naouri, A.*, +, *JIoT Aug. 15, 2021 13065-13076*
- Accurate Tracking, Collision Detection, and Optimal Scheduling of Airport Ground Support Equipment. *Wang, S.*, +, *JIoT Jan. 1, 2021 572-584*
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M.*, +, *JIoT Dec. 15, 2021 17275-17289*
- Boosting Edge Intelligence With Collaborative Cross-Edge Analytics. *Jin, H.*, +, *JIoT Feb. 15, 2021 2444-2458*
- Cloud Resource Scheduling With Deep Reinforcement Learning and Imitation Learning. *Guo, W.*, +, *JIoT March 1, 2021 3576-3586*
- Collaborative Design of Multi-UAV Trajectory and Resource Scheduling for 6G-Enabled Internet of Things. *Wang, J.*, +, *JIoT Oct. 15, 2021 15096-15106*
- Distributed Resource Management for Blockchain in Fog-Enabled IoT Networks. *Yang, L.*, +, *JIoT Feb. 15, 2021 2330-2341*
- Dynamic Charging Scheme Problem With Actor-Critic Reinforcement Learning. *Yang, M.*, +, *JIoT Jan. 1, 2021 370-380*
- Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. *Lai, W.*, +, *JIoT Jan. 15, 2021 1016-1029*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*
- Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L.*, +, *JIoT April 1, 2021 5574-5584*
- Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. *Chiang, Y.*, +, *JIoT Oct. 1, 2021 14435-14446*
- IoT Application Modules Placement and Dynamic Task Processing in Edge-Cloud Computing. *Fang, J.*, +, *JIoT Aug. 15, 2021 12771-12781*
- Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. *Gu, S.*, +, *JIoT Feb. 15, 2021 2135-2149*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. *Ji, J.*, +, *JIoT Feb. 1, 2021 1557-1571*
- Massive IoT Access With NOMA in 5G Networks and Beyond Using Online Competitiveness and Learning. *Mlika, Z.*, +, *JIoT Sept. 1, 2021 13624-13639*
- Online Computation Offloading and Resource Scheduling in Mobile-Edge Computing. *Liu, T.*, +, *JIoT April 15, 2021 6649-6664*
- Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. *Liu, M.*, +, *JIoT June 1, 2021 8990-9004*
- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*
- Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C.*, +, *JIoT Nov. 15, 2021 16207-16218*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*
- Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis. *Sandhu, M.M.*, +, *JIoT Sept. 15, 2021 13825-13848*
- Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z.*, +, *JIoT Dec. 15, 2021 17290-17307*
- Toward Computing Resource Reservation Scheduling in Industrial Internet of Things. *Liang, F.*, +, *JIoT May 15, 2021 8210-8222*
- Toward Practical Weakly Hard Real-Time Systems: A Job-Class-Level Scheduling Approach. *Choi, H.*, +, *JIoT April 15, 2021 6692-6708*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Schottky diodes**
- Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F.*, +, *JIoT March 1, 2021 3678-3688*
- Search problems**
- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*
- Coalitional Game-Based Cooperative Computation Offloading in MEC for Reusable Tasks. *Yang, X.*, +, *JIoT Aug. 15, 2021 12968-12982*
- Constrained Multiobjective Optimization for IoT-Enabled Computation Offloading in Collaborative Edge and Cloud Computing. *Peng, G.*, +, *JIoT Sept. 1, 2021 13723-13736*

- Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y.*, +, *JIoT March 15, 2021 4906-4919*
- Deep Q -Network-Based Feature Selection for Multisourced Data Cleaning. *Wang, Q.*, +, *JIoT Nov. 1, 2021 16153-16164*
- Edge Learning With Unmanned Ground Vehicle: Joint Path, Energy, and Sample Size Planning. *Liu, D.*, +, *JIoT Feb. 15, 2021 2959-2975*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*
- Multiple Nodes Access of Wireless Beam Modulation for 6G-Enabled Internet of Things. *Chen, J.*, +, *JIoT Oct. 15, 2021 15191-15204*
- Neural Architecture Search for Robust Networks in 6G-Enabled Massive IoT Domain. *Wang, K.*, +, *JIoT April 1, 2021 5332-5339*
- Object Tracking by the Least Spatiotemporal Searches. *Yu, Z.*, +, *JIoT Aug. 15, 2021 12934-12946*
- Outage Probability Performance Analysis and Prediction for Mobile IoT Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C.*, +, *JIoT March 15, 2021 4855-4867*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z.*, +, *JIoT Feb. 1, 2021 1702-1715*
- Secondary cells**
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- Dynamics of Laser-Charged UAVs: A Battery Perspective. *Jaafar, W.*, +, *JIoT July 1, 2021 10573-10582*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y.*, +, *JIoT Feb. 15, 2021 2792-2801*
- Multicycle Testing of Commercial Coin Cells for Buffering of Harvested Energy for the IoT. *Evans, J.W.*, +, *JIoT June 15, 2021 10047-10051*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z.*, +, *JIoT Feb. 1, 2021 1585-1598*
- Security**
- A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*
- An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L.*, +, *JIoT Dec. 1, 2021 17120-17130*
- Blockchain and SGX-Enabled Edge-Computing-Empowered Secure IoMT Data Analysis. *Gao, Y.*, +, *JIoT Nov. 1, 2021 15785-15795*
- CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q.*, +, *JIoT Dec. 1, 2021 16946-16962*
- Dependability and Security Quantification of an Internet of Medical Things Infrastructure Based on Cloud-Fog-Edge Continuum for Healthcare Monitoring Using Hierarchical Models. *Nguyen, T.A.*, +, *JIoT Nov. 1, 2021 15704-15748*
- Designing Secure User Authentication Protocol for Big Data Collection in IoT-Based Intelligent Transportation System. *Srinivas, J.*, +, *JIoT May 1, 2021 7727-7744*
- Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N.*, +, *JIoT Nov. 15, 2021 16452-16472*
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*
- Efficient Security and Authentication for Edge-Based Internet of Medical Things. *Parah, S.A.*, +, *JIoT Nov. 1, 2021 15652-15662*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. *Valadares, D.C.G.*, +, *JIoT Dec. 1, 2021 17199-17210*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- HoneyPot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W.*, +, *JIoT Dec. 15, 2021 17372-17381*
- I-ViSE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y.*, +, *JIoT Nov. 1, 2021 16181-16190*
- Interdependence-Aware Game-Theoretic Framework for Secure Intelligent Transportation Systems. *Ferdowsi, A.*, +, *JIoT Nov. 15, 2021 16395-16405*
- MEdge-Chain: Leveraging Edge Computing and Blockchain for Efficient Medical Data Exchange. *Awad Abdellatif, A.*, +, *JIoT Nov. 1, 2021 15762-15775*
- Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J.*, +, *JIoT Nov. 1, 2021 15663-15671*
- Post-Quantum Secure Ring Signatures for Security and Privacy in the Cybertwin-Driven 6G. *Liu, J.*, +, *JIoT Nov. 15, 2021 16290-16300*
- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H.*, +, *JIoT Dec. 1, 2021 17211-17226*
- Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P.*, +, *JIoT Nov. 1, 2021 15749-15761*
- The Global State of Security in Industrial Control Systems: An Empirical Analysis of Vulnerabilities Around the World. *Anton, S.D.D.*, +, *JIoT Dec. 15, 2021 17525-17540*
- Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H.*, +, *JIoT Dec. 15, 2021 17734-17746*
- Security of data**
- Ad Hoc Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O.*, +, *JIoT June 15, 2021 9463-9472*
- A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. *Cai, X.*, +, *JIoT June 15, 2021 9645-9653*
- A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. *Hassija, V.*, +, *JIoT April 15, 2021 6222-6246*
- A Win-Win Mode: The Complementary and Coexistence of 5G Networks and Edge Computing. *Fang, F.*, +, *JIoT March 15, 2021 3983-4003*
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*
- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*
- Adversarial Attacks Against Network Intrusion Detection in IoT Systems. *Qiu, H.*, +, *JIoT July 1, 2021 10327-10335*
- Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A.*, +, *JIoT June 15, 2021 9603-9610*
- AI and Machine Learning for Industrial Security With Level Discovery Method. *Jiang, H.*, +, *JIoT April 15, 2021 6167-6177*

- An Architecture for IoT-Enabled Smart Transportation Security System: A Geospatial Approach. *Zhang, J.*, +, *JIoT April 15, 2021 6205-6213*
- Attacking and Protecting Data Privacy in Edge-Cloud Collaborative Inference Systems. *He, Z.*, +, *JIoT June 15, 2021 9706-9716*
- Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W.*, +, *JIoT April 15, 2021 6305-6312*
- Blockchain-Based Data Management and Edge-Assisted Trusted Cloaking Area Construction for Location Privacy Protection in Vehicular Networks. *Feng, J.*, +, *JIoT Feb. 15, 2021 2087-2101*
- Blockchain-Enabled Secure Data Sharing Scheme in Mobile-Edge Computing: An Asynchronous Advantage Actor-Critic Learning Approach. *Liu, L.*, +, *JIoT Feb. 15, 2021 2342-2353*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J.*, +, *JIoT Nov. 15, 2021 16498-16509*
- Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S.*, +, *JIoT April 15, 2021 6498-6518*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- DaaS: Dew Computing as a Service for Intelligent Intrusion Detection in Edge-of-Things Ecosystem. *Singh, P.*, +, *JIoT Aug. 15, 2021 12569-12577*
- Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*
- Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N.*, +, *JIoT June 1, 2021 9422-9435*
- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*
- Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y.*, +, *JIoT March 1, 2021 3554-3566*
- Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. *Jiang, X.*, +, *JIoT Nov. 15, 2021 16535-16547*
- ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. *Chen, Q.*, +, *JIoT Sept. 15, 2021 14355-14371*
- False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y.*, +, *JIoT Feb. 15, 2021 2910-2919*
- False Data Injection Attack Detection for Industrial Control Systems Based on Both Time- and Frequency-Domain Analysis of Sensor Data. *Huang, D.*, +, *JIoT Jan. 1, 2021 585-595*
- Fuzzing the Internet of Things: A Review on the Techniques and Challenges for Efficient Vulnerability Discovery in Embedded Systems. *Eceiza, M.*, +, *JIoT July 1, 2021 10390-10411*
- Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*
- Internet of Things (IoT): A Review of Its Enabling Technologies in Healthcare Applications, Standards Protocols, Security, and Market Opportunities. *Bhuiyan, M.N.*, +, *JIoT July 1, 2021 10474-10498*
- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X.*, +, *JIoT Jan. 15, 2021 657-671*
- IoT-Based Big Data Secure Management in the Fog Over a 6G Wireless Network. *Stergiou, C.L.*, +, *JIoT April 1, 2021 5164-5171*
- IoTCop: A Blockchain-Based Monitoring Framework for Detection and Isolation of Malicious Devices in Internet-of-Things Systems. *Seshadri, S.S.*, +, *JIoT March 1, 2021 3346-3359*
- Omni SCADA Intrusion Detection Using Deep Learning Algorithms. *Gao, J.*, +, *JIoT Jan. 15, 2021 951-961*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N.*, +, *JIoT March 1, 2021 3255-3267*
- On Designing Context-Aware Trust Model and Service Delegation for Social Internet of Things. *Wei, L.*, +, *JIoT March 15, 2021 4775-4787*
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K.*, +, *JIoT April 15, 2021 6815-6827*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H.*, +, *JIoT June 15, 2021 10117-10130*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. *Zhang, J.*, +, *JIoT March 1, 2021 3310-3322*
- Privacy-Preserving Blockchain-Based Federated Learning for IoT Devices. *Zhao, Y.*, +, *JIoT Feb. 1, 2021 1817-1829*
- Privacy-Preserving Collaborative Learning for Multiarmed Bandits in IoT. *Chen, S.*, +, *JIoT March 1, 2021 3276-3286*
- Privacy-Preserving Multiobjective Sanitization Model in 6G IoT Environments. *Lin, J.C.*, +, *JIoT April 1, 2021 5340-5349*
- Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*
- Recent Advances in the Internet-of-Medical-Things (IoMT) Systems Security. *Ghubaish, A.*, +, *JIoT June 1, 2021 8707-8718*
- Reinforcement Learning for IoT Security: A Comprehensive Survey. *Uprety, A.*, +, *JIoT June 1, 2021 8693-8706*
- Resource Management for Secure Computation Offloading in Softwarized Cyber-Physical Systems. *Wang, D.*, +, *JIoT June 1, 2021 9294-9304*
- Reviewing IoT Security via Logic Bugs in IoT Platforms and Systems. *Zhou, W.*, +, *JIoT July 15, 2021 11621-11639*
- Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021 9549-9558*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. *Ghahramani, M.*, +, *JIoT March 1, 2021 3619-3635*
- SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M.*, +, *JIoT March 1, 2021 3665-3677*
- Secure Cloud-Aided Object Recognition on Hyperspectral Remote Sensing Images. *Gao, P.*, +, *JIoT March 1, 2021 3287-3299*
- Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. *Abichandani, P.*, +, *JIoT Feb. 1, 2021 1783-1796*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*
- Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*
- Security Requirements and Solutions for IoT Gateways: A Comprehensive Study. *Lins, F.A.A.*, +, *JIoT June 1, 2021 8667-8679*
- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R.*, +, *JIoT April 15, 2021 6214-6221*
- Smart Applications in Edge Computing: Overview on Authentication and Data Security. *Li, X.*, +, *JIoT March 15, 2021 4063-4080*
- TOTAL: Optimal Protection Strategy Against Perfect and Imperfect False Data Injection Attacks on Power Grid Cyber-Physical Systems. *Tian, J.*, +, *JIoT Jan. 15, 2021 1001-1015*
- Toward Anomaly Behavior Detection as an Edge Network Service Using a Dual-Task Interactive Guided Neural Network. *Guo, K.*, +, *JIoT Aug. 15, 2021 12623-12637*
- Toward Effective Intrusion Detection Using Log-Cosh Conditional Variational Autoencoder. *Xu, X.*, +, *JIoT April 15, 2021 6187-6196*
- Toward Invisible Adversarial Examples Against DNN-Based Privacy Leakage for Internet of Things. *Ding, X.*, +, *JIoT Jan. 15, 2021 802-812*
- Understanding and Modeling of WiFi Signal-Based Indoor Privacy Protection. *Zhang, W.*, +, *JIoT Feb. 1, 2021 2000-2010*
- Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z.*, +, *JIoT April 15, 2021 6608-6623*
- Self-organizing feature maps**
- A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J.*, +, *JIoT March 15, 2021 4403-4416*
- Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms. *Zhang, Y.*, +, *JIoT Feb. 1, 2021 1334-1346*

Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things. *Liao, Z., +, JIoT May 1, 2021 7575-7588*

Semantics

Agents-Based Algorithm for a Distributed Information System in Internet of Things. *Forestiero, A., +, JIoT Nov. 15, 2021 16548-16558*

Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F., +, JIoT Dec. 1, 2021 16758-16769*

Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G., +, JIoT Nov. 1, 2021 16165-16180*

Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y., +, JIoT Dec. 1, 2021 16770-16778*

Sensitivity

Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G., +, JIoT Nov. 1, 2021 16165-16180*

Sensor fusion

A Cost-Quality Beneficial Cell Selection Approach for Sparse Mobile Crowdsensing With Diverse Sensing Costs. *Zhu, Z., +, JIoT March 1, 2021 3831-3850*

A Multisensory Edge-Cloud Platform for Opportunistic Radio Sensing in Cobot Environments. *Kianoush, S., +, JIoT Jan. 15, 2021 1154-1168*

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar; N., +, JIoT Jan. 15, 2021 869-880*

Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. *Lazarescu, M.T., +, JIoT March 1, 2021 3939-3954*

Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X., +, JIoT Oct. 1, 2021 14845-14859*

Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*

Data Reduction Model for Balancing Indexing and Securing Resources in the Internet-of-Things Applications. *Younan, M., +, JIoT April 1, 2021 5953-5972*

Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X., +, JIoT Aug. 15, 2021 12588-12596*

Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J., +, JIoT May 1, 2021 7649-7660*

Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D., +, JIoT June 1, 2021 9059-9071*

Distributed Query Processing in the Edge-Assisted IoT Data Monitoring System. *Cai, Z., +, JIoT Aug. 15, 2021 12679-12693*

Energy-Efficient Anomaly Detection With Primary and Secondary Attributes in Edge-Cloud Collaboration Networks. *Li, X., +, JIoT Aug. 1, 2021 12176-12188*

Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence. *Saeed, A., +, JIoT Jan. 15, 2021 1030-1040*

FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L., +, JIoT May 1, 2021 7333-7345*

Hybrid Fuzzy C-Means CPD-Based Segmentation for Improving Sensor-Based Multiresident Activity Recognition. *Chen, D., +, JIoT July 15, 2021 11193-11207*

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*

Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y., +, JIoT Feb. 1, 2021 1544-1556*

Keeping Cell Selection Model Up-to-Date to Adapt to Time-Dependent Environment in Sparse Mobile Crowdsensing. *Han, L., +, JIoT Sept. 15, 2021 13914-13925*

MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L., +, JIoT June 1, 2021 9383-9396*

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*

Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network. *Xiao, G., +, JIoT Aug. 15, 2021 12748-12757*

Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*

Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City. *Hu, H., +, JIoT June 15, 2021 9539-9548*

Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. *Dong, X., +, JIoT May 15, 2021 8032-8043*

PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. *Wang, X., +, JIoT July 1, 2021 10288-10298*

RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S., +, JIoT July 15, 2021 11177-11192*

Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y., +, JIoT Sept. 15, 2021 14039-14050*

Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M., +, JIoT Oct. 15, 2021 15240-15248*

Sensor phenomena and characterization

A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J., +, JIoT Nov. 1, 2021 15807-15817*

Sensor placement

A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G., +, JIoT Jan. 15, 2021 684-694*

A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks. *Su, Y., +, JIoT March 1, 2021 3653-3664*

A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem. *Sharma, R., +, JIoT Sept. 1, 2021 13439-13448*

A Secure Scheme Based on One-Way Associated Key Management Model in Wireless Sensor Networks. *Li, S., +, JIoT Feb. 15, 2021 2920-2930*

Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*

Distributed and Collaborative Localization for Swarming UAVs. *Chen, R., +, JIoT March 15, 2021 5062-5074*

Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y., +, JIoT March 15, 2021 4841-4854*

Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*

Optimal Localization With Sequential Pseudorange Measurements for Moving Users in a Time-Division Broadcast Positioning System. *Zhao, S., +, JIoT June 1, 2021 8883-8896*

Probabilistic Source Localization Based on Time-of-Arrival Measurements. *Salt, J.E., +, JIoT April 1, 2021 5881-5892*

UAV-Aided Relative Localization of Terminals. *Liu, Y., +, JIoT Aug. 15, 2021 12999-13013*

Sensor systems

HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N., +, JIoT Dec. 1, 2021 16845-16852*

Sensors

SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K., +, JIoT Nov. 15, 2021 16666-16679*

A Noncontact Ballistocardiography-Based IoMT System for Cardiopulmonary Health Monitoring of Discharged COVID-19 Patients. *Liu, J., +, JIoT Nov. 1, 2021 15807-15817*

A Novel 3-D Indoor Localization Algorithm Based on BLE and Multiple Sensors. *Yu, Y., +, JIoT June 1, 2021 9359-9372*

A Trust-Evaluation-Enhanced Blockchain-Secured Industrial IoT System. *Wu, D., +, JIoT April 1, 2021 5510-5517*

A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B., +, JIoT Nov. 1, 2021 16121-16141*

- A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q.*, +, *JIoT Dec. 1, 2021 17014-17028*
- Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z.*, +, *JIoT Feb. 15, 2021 2826-2841*
- CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y.*, +, *JIoT April 15, 2021 6893-6903*
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S.*, +, *JIoT June 15, 2021 9484-9494*
- Collection of Data With Drones in Precision Agriculture: Analytical Model and LoRa Case Study. *Caruso, A.*, +, *JIoT Nov. 15, 2021 16692-16704*
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J.*, +, *JIoT Dec. 1, 2021 16801-16813*
- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L.*, +, *JIoT Sept. 15, 2021 13805-13824*
- Data-Aided Sensing for Gaussian Process Regression in IoT Systems. *Choi, J.*, *JIoT May 1, 2021 7717-7726*
- Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*
- Designing Secure User Authentication Protocol for Big Data Collection in IIoT-Based Intelligent Transportation System. *Srinivas, J.*, +, *JIoT May 1, 2021 7727-7744*
- Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J.*, +, *JIoT Jan. 15, 2021 1140-1153*
- Detecting Video Game Player Burnout With the Use of Sensor Data and Machine Learning. *Smerdov, A.*, +, *JIoT Nov. 15, 2021 16680-16691*
- Detection of Anomalies in Industrial IIoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*
- Dynamic Collaborative Charging Algorithm for Mobile and Static Nodes in Industrial Internet of Things. *Han, G.*, +, *JIoT Dec. 15, 2021 17747-17761*
- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y.*, +, *JIoT Nov. 15, 2021 16486-16497*
- Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IIoT Networks. *Gouisssem, A.*, +, *JIoT Dec. 1, 2021 16880-16893*
- Graph Learning Techniques Using Structured Data for IIoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P.*, +, *JIoT Sept. 1, 2021 13652-13663*
- H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S.*, +, *JIoT July 1, 2021 10678-10692*
- HeDI: Healthcare Device Interoperability for IIoT-Based e-Health Platforms. *Pathak, N.*, +, *JIoT Dec. 1, 2021 16845-16852*
- Hierarchical Federated Learning for Hybrid Data Partitioning Across Multitype Sensors. *Su, L.*, +, *JIoT July 1, 2021 10922-10939*
- IIoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhe-
lim, S.*, +, *JIoT Dec. 15, 2021 17817-17828*
- LSTM-Based Emotion Detection Using Physiological Signals: IIoT Framework for Healthcare and Distance Learning in COVID-19. *Awais, M.*, +, *JIoT Dec. 1, 2021 16863-16871*
- MARS: Mixed Virtual and Real Wearable Sensors for Human Activity Recognition With Multidomain Deep Learning Model. *Pei, L.*, +, *JIoT June 1, 2021 9383-9396*
- Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A.*, +, *JIoT Nov. 1, 2021 16108-16120*
- NeuroTrust—Artificial-Neural-Network-Based Intelligent Trust Management Mechanism for Large-Scale Internet of Medical Things. *Awan, K.A.*, +, *JIoT Nov. 1, 2021 15672-15682*
- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IIoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*
- Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K.*, +, *JIoT Dec. 1, 2021 17111-17119*
- Over-the-Air Aggregation With Multiple Shared Channels and Graph-Based State Estimation for Industrial IIoT Systems. *Tang, M.*, +, *JIoT Oct. 1, 2021 14638-14657*
- PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B.*, +, *JIoT Dec. 15, 2021 17584-17595*
- Secure and Privacy-Preserved Data Collection for IIoT Wireless Sensors. *Rezaeibagha, F.*, +, *JIoT Dec. 15, 2021 17669-17677*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*
- Task-Driven Data Offloading for Fog-Enabled Urban IIoT Services. *Wang, P.*, +, *JIoT May 1, 2021 7562-7574*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- The Impact of Covid-19 on Smartphone Usage. *Li, T.*, +, *JIoT Dec. 1, 2021 16723-16733*
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y.*, +, *JIoT Dec. 15, 2021 17762-17777*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- Utility-Theory-Based Optimal Resource Consumption for Inference in IIoT Systems. *Geng, B.*, +, *JIoT Aug. 1, 2021 12279-12288*
- Wireless Power Transfer for Aircraft IIoT Applications: System Design and Measurements. *Tavana, M.*, +, *JIoT Aug. 1, 2021 11834-11846*
- Sentiment analysis**
- FSLM: An Intelligent Few-Shot Learning Model Based on Siamese Networks for IIoT Technology. *Yang, L.*, +, *JIoT June 15, 2021 9717-9729*
- Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network. *Xiao, G.*, +, *JIoT Aug. 15, 2021 12748-12757*
- Security**
- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IIoT Communication Systems. *You, Y.*, +, *JIoT Feb. 15, 2021 2900-2909*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Servers**
- A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J.*, +, *JIoT Dec. 15, 2021 17508-17524*
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y.*, +, *JIoT Nov. 15, 2021 16219-16230*
- CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B.*, +, *JIoT Dec. 15, 2021 17790-17801*
- Deep-Reinforcement-Learning-Based Cybertwin Architecture for 6G IIoT: An Integrated Design of Control, Communication, and Computing. *Xu, H.*, +, *JIoT Nov. 15, 2021 16337-16348*
- Emotion Recognition for Cognitive Edge Computing Using Deep Learning. *Muhammad, G.*, +, *JIoT Dec. 1, 2021 16894-16901*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q.*, +, *JIoT Nov. 15, 2021 16473-16485*
- Fault-Tolerant Mechanism for Edge-Based IIoT Networks With Demand Uncertainty. *Samanta, A.*, +, *JIoT Dec. 1, 2021 16963-16971*
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C.*, +, *JIoT Dec. 15, 2021 17308-17319*
- Formal Verification of a Trusted Execution Environment-Based Architecture for IIoT Applications. *Valadares, D.C.G.*, +, *JIoT Dec. 1, 2021 17199-17210*
- Game-Based Multitype Task Offloading Among Mobile-Edge-Computing-Enabled Base Stations. *Fan, W.*, +, *JIoT Dec. 15, 2021 17691-17704*
- Heterogeneous Signcryption With Equality Test for IIoT Environment. *Xiong, H.*, +, *JIoT Nov. 1, 2021 16142-16152*
- Honey-pot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W.*, +, *JIoT Dec. 15, 2021 17372-17381*

- Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*
- Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W., +, JIoT Nov. 15, 2021 16256-16268*
- Mutual Authentication Scheme for the Device-to-Server Communication in the Internet of Medical Things. *Sun, J., +, JIoT Nov. 1, 2021 15663-15671*
- OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S., +, JIoT Nov. 15, 2021 16418-16426*
- On-Device Computational Caching-Enabled Augmented Reality for 5G and Beyond: A Contract-Theory-Based Incentive Mechanism. *Dang, T.N., +, JIoT Dec. 15, 2021 17382-17394*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L., +, JIoT Dec. 1, 2021 17057-17070*
- Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L., +, JIoT Dec. 1, 2021 17172-17185*
- Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H., +, JIoT Nov. 1, 2021 15683-15693*
- Provably Secure Authentication Protocol for Mobile Clients in IoT Environment Using Puncturable Pseudorandom Function. *Saleem, M.A., +, JIoT Nov. 15, 2021 16613-16622*
- Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H., +, JIoT Dec. 1, 2021 16972-16983*
- Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F., +, JIoT Dec. 15, 2021 17669-17677*
- Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P., +, JIoT May 1, 2021 7562-7574*
- Titchy: Online Time-Series Compression With Random Access for the Internet of Things. *Vestergaard, R., +, JIoT Dec. 15, 2021 17568-17583*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y., +, JIoT Nov. 15, 2021 16243-16255*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y., +, JIoT Dec. 15, 2021 17762-17777*
- Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J., +, JIoT Dec. 1, 2021 17029-17042*
- Service function chaining**
- A Lagrangian-Relaxation-Based Approach for Service Function Chain Dynamic Orchestration for the Internet of Things. *Liu, Y., +, JIoT Dec. 1, 2021 17071-17089*
- Service-oriented architecture**
- 6G-Enabled IoT Home Environment Control Using Fuzzy Rules. *Wozniak, M., +, JIoT April 1, 2021 5442-5452*
- Cloud-Manufacturing-Based Condition Monitoring Platform With 5G and Standard Information Model. *Yang, H., +, JIoT April 15, 2021 6940-6948*
- Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*
- Operating Latency Sensitive Applications on Public Serverless Edge Cloud Platforms. *Pelle, I., +, JIoT May 15, 2021 7954-7972*
- Set theory**
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H., +, JIoT March 15, 2021 4329-4338*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F., +, JIoT Aug. 15, 2021 13095-13114*
- Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z., +, JIoT May 1, 2021 7279-7287*
- Sewage treatment**
- Multilayer Internet-of-Things Middleware Based on Knowledge Graph. *Xie, C., +, JIoT Feb. 15, 2021 2635-2648*
- Shadow mapping**
- Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*
- Signal classification**
- Automatic Detection of Congestive Heart Failure Based on a Hybrid Deep Learning Algorithm in the Internet of Medical Things. *Ning, W., +, JIoT Aug. 15, 2021 12550-12558*
- Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. *Li, B., +, JIoT Oct. 15, 2021 15303-15316*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I., +, JIoT March 15, 2021 4944-4956*
- Lightweight Deep Learning Model in Mobile-Edge Computing for Radar-Based Human Activity Recognition. *Zhu, J., +, JIoT Aug. 1, 2021 12350-12359*
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J., +, JIoT May 15, 2021 8304-8313*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A., +, JIoT July 1, 2021 10953-10962*
- SeizSCLas: An Efficient and Secure Internet-of-Things-Based EEG Classifier. *Singh, R., +, JIoT April 15, 2021 6214-6221*
- Signal detection**
- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y., +, JIoT Feb. 15, 2021 2900-2909*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W., +, JIoT April 1, 2021 5374-5385*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciunzo, D., +, JIoT June 1, 2021 9059-9071*
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T., +, JIoT June 1, 2021 9014-9029*
- Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L., +, JIoT Aug. 1, 2021 12339-12349*
- Multiple High-Order Cumulants-Based Spectrum Sensing in Full-Duplex-Enabled Cognitive IoT Networks. *Wang, D., +, JIoT June 1, 2021 9330-9343*
- On the Advantage of Coherent LoRa Detection in the Presence of Interference. *Afisiadis, O., +, JIoT July 15, 2021 11581-11593*
- Optimal Mobile Crowdsensing Incentive Under Sensing Inaccuracy. *Dong, X., +, JIoT May 15, 2021 8032-8043*
- Slope-Shift Keying LoRa-Based Modulation. *Hanif, M., +, JIoT Jan. 1, 2021 211-221*
- Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*
- Signal generators**
- A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C., +, JIoT March 1, 2021 3331-3345*
- Signal processing**
- Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X., +, JIoT Aug. 1, 2021 12093-12105*
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E., +, JIoT Sept. 15, 2021 14308-14321*
- FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices. *Wang, Y., +, JIoT Aug. 1, 2021 12455-12466*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. *Zhang, J., +, JIoT May 1, 2021 7610-7624*
- Signal reconstruction**
- A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J., +, JIoT Oct. 15, 2021 15276-15283*
- Building Layout Tomographic Reconstruction via Commercial WiFi Signals. *Zhang, Y., +, JIoT Oct. 15, 2021 15500-15511*
- Communication-Efficient Federated Learning Based on Compressed Sensing. *Li, C., +, JIoT Oct. 15, 2021 15531-15541*

- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W.*, +, *JIoT April 1, 2021 5374-5385*
- Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing. *Zhang, J.*, +, *JIoT Feb. 15, 2021 3027-3041*
- ESR-GAN: Environmental Signal Reconstruction Learning With Generative Adversarial Network. *Kang, X.*, +, *JIoT Jan. 1, 2021 636-646*
- Joint User Activity Identification and Channel Estimation for Grant-Free NOMA: A Spatial-Temporal Structure-Enhanced Approach. *Wu, L.*, +, *JIoT Aug. 1, 2021 12339-12349*
- Learning-Based Sparse Data Reconstruction for Compressed Data Aggregation in IoT Networks. *Zhang, M.*, +, *JIoT July 15, 2021 11732-11742*
- Signal sampling**
- Age of Processing: Age-Driven Status Sampling and Processing Offloading for Edge-Computing-Enabled Real-Time IoT Applications. *Li, R.*, +, *JIoT Oct. 1, 2021 14471-14484*
- ECG Biometric Recognition: Unlinkability, Irreversibility, and Security. *Wu, S.*, +, *JIoT Jan. 1, 2021 487-500*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*
- Silicon carbide**
- Optimal Resource Allocation for Full-Duplex IoT Systems Underlying Cellular Networks With Mutual SIC NOMA. *Kilzi, A.*, +, *JIoT Dec. 15, 2021 17705-17723*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Silicon-on-insulator**
- Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K.*, +, *JIoT March 15, 2021 4642-4656*
- Simulated annealing**
- Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. *Qian, L.P.*, +, *JIoT Feb. 15, 2021 2150-2162*
- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J.*, +, *JIoT March 1, 2021 3774-3785*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*
- Simulation**
- A 3-D Nonstationary Wideband V2V GBSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L.*, +, *JIoT Dec. 15, 2021 17622-17638*
- Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*
- Single machine scheduling**
- Task Selection and Scheduling in UAV-Enabled MEC for Reconnaissance With Time-Varying Priorities. *Qin, Z.*, +, *JIoT Dec. 15, 2021 17290-17307*
- Singular value decomposition**
- Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning. *Yurtman, A.*, +, *JIoT May 15, 2021 8328-8342*
- TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems. *Xu, G.*, +, *JIoT June 15, 2021 9559-9567*
- Skeleton**
- Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S.*, +, *JIoT Nov. 1, 2021 15990-16001*
- Skin**
- Flow Experience Detection and Analysis for Game Users by Wearable-Devices-Based Physiological Responses Capture. *Ye, X.*, +, *JIoT Feb. 1, 2021 1373-1387*
- Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. *Zhu, Q.*, +, *JIoT Dec. 1, 2021 16734-16748*
- Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*
- SLAM (robots)**
- Enhanced and Facilitated Indoor Positioning by Visible-Light GraphSLAM Technique. *Yue, Y.*, +, *JIoT Jan. 15, 2021 1183-1196*
- Sleep**
- Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. *Liu, W.*, +, *JIoT March 15, 2021 4681-4696*
- WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. *Yu, B.*, +, *JIoT Sept. 15, 2021 13900-13913*
- Slot antenna arrays**
- Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*
- Smart cards**
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z.*, +, *JIoT Jan. 1, 2021 474-486*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. *Vinoth, R.*, +, *JIoT March 1, 2021 3801-3811*
- Smart cities**
- A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J.*, +, *JIoT Feb. 1, 2021 2040-2050*
- A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M.*, +, *JIoT Aug. 1, 2021 11793-11806*
- A Trusted Attestation Scheme for Data Source of Internet of Things in Smart City Based on Dynamic Trust Classification. *Gong, B.*, +, *JIoT Nov. 1, 2021 16121-16141*
- Attribute-Based Access Control for Smart Cities: A Smart-Contract-Driven Framework. *Zhang, Y.*, +, *JIoT April 15, 2021 6372-6384*
- Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P.*, +, *JIoT March 1, 2021 3384-3393*
- Efficient and Traceable Patient Health Data Search System for Hospital Management in Smart Cities. *Zhou, R.*, +, *JIoT April 15, 2021 6425-6436*
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- Industrial Internet-of-Things Security Enhanced With Deep Learning Approaches for Smart Cities. *Magaia, N.*, +, *JIoT April 15, 2021 6393-6405*
- Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks. *Deese, A.S.*, +, *JIoT Jan. 1, 2021 222-231*
- MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y.*, +, *JIoT Dec. 1, 2021 16933-16945*
- Mobile Sensor Deployment Optimization Algorithm for Maximizing Monitoring Capacity of Large-Scale Acyclic Directed Pipeline Networks in Smart Cities. *Liang, J.*, +, *JIoT Nov. 1, 2021 16083-16095*
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z.*, +, *JIoT Jan. 1, 2021 474-486*
- Scalable and Efficient Hardware Architectures for Authenticated Encryption in IoT Applications. *Khan, S.*, +, *JIoT July 15, 2021 11260-11275*
- Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z.*, +, *JIoT April 15, 2021 6385-6392*
- The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L.*, +, *JIoT July 15, 2021 11503-11513*
- Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*
- Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B.*, +, *JIoT Feb. 15, 2021 2943-2958*
- Smart contracts**
- d -BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghoul, E.*, +, *JIoT Nov. 15, 2021 16585-16597*
- Smart devices**
- Guest Editorial Special Issue on Smart IoT System: Opportunities by Linking Cloud, Edge, and AI. *Yang, W.*, +, *JIoT Aug. 15, 2021 12478-12480*
- Smart grids**
- Privacy Preserving and Efficient Data Collection Scheme for AMI Networks Using Deep Learning. *Ibrahim, M.I.*, +, *JIoT Dec. 1, 2021 17131-17146*
- Smart healthcare**
- Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M.*, +, *JIoT Dec. 1, 2021 16718-16722*
- Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y.*, +, *JIoT Dec. 1, 2021 16770-16778*

Special Issue on “Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond”. *Hu, X., +, JIoT Nov. 1, 2021 15649-15651*

Smart meters

Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. *Khalil, R.A., +, JIoT July 15, 2021 11016-11040*

Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*

Efficient Privacy-Preserving Electricity Theft Detection With Dynamic Billing and Load Monitoring for AMI Networks. *Ibrahim, M.I., +, JIoT Jan. 15, 2021 1243-1258*

HoneyPot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W., +, JIoT Dec. 15, 2021 17372-17381*

LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y., +, JIoT Oct. 15, 2021 15639-15648*

Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*

Smart phones

d-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E., +, JIoT Nov. 15, 2021 16585-16597*

A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*

An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N., +, JIoT Jan. 15, 2021 869-880*

Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices. *Choi, J., +, JIoT Jan. 1, 2021 541-554*

Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S., +, JIoT June 15, 2021 9484-9494*

Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K., +, JIoT Nov. 1, 2021 16035-16046*

Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K., +, JIoT June 1, 2021 9257-9267*

CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z., +, JIoT March 1, 2021 3422-3437*

CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H., +, JIoT Oct. 1, 2021 14658-14671*

Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B., +, JIoT Dec. 15, 2021 17724-17733*

Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V., +, JIoT Nov. 1, 2021 16047-16071*

Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K., +, JIoT Oct. 1, 2021 14589-14606*

EyeLoc: Smartphone Vision-Enabled Plug-n-Play Indoor Localization in Large Shopping Malls. *Liu, M., +, JIoT April 1, 2021 5585-5598*

Glow in the Dark: Smartphone Inertial Odometry for Vehicle Tracking in GPS Blocked Environments. *Gao, R., +, JIoT Aug. 15, 2021 12955-12967*

GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. *Zhao, Y., +, JIoT Jan. 1, 2021 393-406*

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M., +, JIoT Sept. 1, 2021 13608-13623*

Indoor/Outdoor Switching Detection Using Multisensor DenseNet and LSTM. *Zhu, Y., +, JIoT Feb. 1, 2021 1544-1556*

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. *Chakraborty, N., +, JIoT March 1, 2021 3255-3267*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q., +, JIoT Feb. 1, 2021 2011-2026*

Sensor-Based Continuous Authentication of Smartphones' Users Using Behavioral Biometrics: A Contemporary Survey. *Abuhamad, M., +, JIoT Jan. 1, 2021 65-84*

ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoT Applications. *Abdel-Basset, M., +, JIoT March 15, 2021 4969-4979*

Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z., +, JIoT Sept. 15, 2021 14372-14384*

WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans. *Jun, H., +, JIoT July 15, 2021 11690-11704*

Smart power grids

A Dynamic Membership Group-Based Multiple-Data Aggregation Scheme for Smart Grid. *Chen, Y., +, JIoT Aug. 1, 2021 12360-12374*

A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V., +, JIoT July 1, 2021 10583-10595*

An Alternative Learning-Based Approach for Economic Dispatch in Smart Grid. *Guo, F., +, JIoT Oct. 1, 2021 15024-15036*

An Efficient and Secure Multidimensional Data Aggregation for Fog-Computing-Based Smart Grid. *Merad-Boudia, O.R., +, JIoT April 15, 2021 6143-6153*

An Efficient Deep Learning Framework for Intelligent Energy Management in IoT Networks. *Han, T., +, JIoT March 1, 2021 3170-3179*

Blockchain for Future Smart Grid: A Comprehensive Survey. *Mollah, M.B., +, JIoT Jan. 1, 2021 18-43*

Cascading Failures in Internet of Things: Review and Perspectives on Reliability and Resilience. *Xing, L., JIoT Jan. 1, 2021 44-64*

CDDPG: A Deep-Reinforcement-Learning-Based Approach for Electric Vehicle Charging Control. *Zhang, F., +, JIoT March 1, 2021 3075-3087*

Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*

Cost-Effective Bad Synchronphasor Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L., +, JIoT Feb. 1, 2021 2027-2039*

Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. *Bera, B., +, JIoT April 1, 2021 5744-5761*

Designing Constraint-Based False Data-Injection Attacks Against the Unbalanced Distribution Smart Grids. *Tran, N.N., +, JIoT June 1, 2021 9422-9435*

Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. *Abdel-Basset, M., +, JIoT Aug. 1, 2021 12422-12435*

False Data Injection Attack and Defense Method on Load Frequency Control. *Li, Y., +, JIoT Feb. 15, 2021 2910-2919*

Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*

Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X., +, JIoT May 15, 2021 8234-8245*

LCEDA: Lightweight and Communication-Efficient Data Aggregation Scheme for Smart Grid. *Su, Y., +, JIoT Oct. 15, 2021 15639-15648*

Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L., +, JIoT May 1, 2021 7589-7599*

Machine-Learning-Based Real-Time Economic Dispatch in Islanding Microgrids in a Cloud-Edge Computing Environment. *Dong, W., +, JIoT Sept. 1, 2021 13703-13711*

Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P., +, JIoT Nov. 15, 2021 16559-16570*

Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*

Reinforcement Learning for IoT Security: A Comprehensive Survey. *Upreti, A., +, JIoT June 1, 2021 8693-8706*

Secure Data Access Control With Fair Accountability in Smart Grid Data Sharing: An Edge Blockchain Approach. *Yang, W., +, JIoT May 15, 2021 8632-8643*

Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M., +, JIoT April 1, 2021 5468-5475*

Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z., +, JIoT April 15, 2021 6608-6623*

Smart transportation

End-to-End Prediction of Parcel Delivery Time With Deep Learning for Smart-City Applications. *de Araujo, A.C.*, +, *JIoT Dec. 1, 2021 17043-17056*

Smoke

Optimizing the Egress Route Using a New Smoke Emulator IoT System. *Gamaleldin, M.*, +, *JIoT June 1, 2021 9373-9382*

Smoothing methods

Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y.*, +, *JIoT Feb. 1, 2021 1716-1727*

Social factors

Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K.*, +, *JIoT Nov. 1, 2021 16035-16046*

Social intelligence

IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhelim, S.*, +, *JIoT Dec. 15, 2021 17817-17828*

Social networking (online)

A Social-Relationships-Based Service Recommendation System for SIoT Devices. *Khelloufi, A.*, +, *JIoT Feb. 1, 2021 1859-1870*

Adversarial Privacy-Preserving Graph Embedding Against Inference Attack. *Li, K.*, +, *JIoT April 15, 2021 6904-6915*

Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C.*, +, *JIoT Dec. 1, 2021 16911-16920*

ComPath: User Interest Mining in Heterogeneous Signed Social Networks for Internet of People. *Dhelim, S.*, +, *JIoT April 15, 2021 7024-7035*

Disaster and Pandemic Management Using Machine Learning: A Survey. *Chamola, V.*, +, *JIoT Nov. 1, 2021 16047-16071*

Dynamically Transient Social Community Detection for Mobile Social Networks. *Bi, X.*, +, *JIoT Feb. 1, 2021 1282-1293*

FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A.*, +, *JIoT March 15, 2021 4485-4497*

IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhelim, S.*, +, *JIoT Dec. 15, 2021 17817-17828*

LDP-Based Social Content Protection for Trending Topic Recommendation. *Wei, J.*, +, *JIoT March 15, 2021 4353-4372*

Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R.*, +, *JIoT Dec. 1, 2021 16825-16834*

Multimodality Sentiment Analysis in Social Internet of Things Based on Hierarchical Attentions and CSAT-TCN With MBM Network. *Xiao, G.*, +, *JIoT Aug. 15, 2021 12748-12757*

Network Representation Learning-Enhanced Multisource Information Fusion Model for POI Recommendation in Smart City. *Hu, H.*, +, *JIoT June 15, 2021 9539-9548*

Privacy-Preserving Verifiable Graph Intersection Scheme With Cryptographic Accumulators in Social Networks. *Zuo, X.*, +, *JIoT March 15, 2021 4590-4603*

Recognizing Influential Nodes in Social Networks With Controllability and Observability. *Huang, F.*, +, *JIoT April 15, 2021 6197-6204*

Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z.*, +, *JIoT May 1, 2021 7279-7287*

Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021 9549-9558*

Social Interaction and Information Diffusion in Social Internet of Things: Dynamics, Cloud-Edge, Traceability. *Yi, Y.*, +, *JIoT Feb. 15, 2021 2177-2192*

Trust Management in Social Internet of Things: Architectures, Recent Advancements, and Future Challenges. *Khan, W.Z.*, +, *JIoT May 15, 2021 7768-7788*

Social sciences computing

WiCrowd: Counting the Directional Crowd With a Single Wireless Link. *Zhang, L.*, +, *JIoT May 15, 2021 8644-8656*

Sociology

Random-Forest-Bagging Broad Learning System With Applications for COVID-19 Pandemic. *Zhan, C.*, +, *JIoT Nov. 1, 2021 15906-15918*

Soft sensors

An Approach to the Unified Management of Heterogeneous IoT Environments. *Armando, N.*, +, *JIoT April 15, 2021 6916-6927*

Software

Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N.*, +, *JIoT Nov. 15, 2021 16452-16472*

Software defined networking

A Game-Theoretic Approach for Enhancing Data Privacy in SDN-Based Smart Grids. *Sivaraman, V.*, +, *JIoT July 1, 2021 10583-10595*

A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*

A Resource-Constrained and Privacy-Preserving Edge-Computing-Enabled Clinical Decision System: A Federated Reinforcement Learning Approach. *Xue, Z.*, +, *JIoT June 1, 2021 9122-9138*

A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*

A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O.*, +, *JIoT March 15, 2021 4081-4104*

A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*

Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S.*, +, *JIoT Jan. 15, 2021 976-988*

EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. *Yang, S.*, +, *JIoT June 15, 2021 9580-9593*

Enterprise Integration Patterns in SDN: A Reliable, Fault-Tolerant Communication Framework. *Rauf, B.*, +, *JIoT April 15, 2021 6359-6371*

Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B.*, +, *JIoT Feb. 1, 2021 1830-1845*

Honeypot Detection Strategy Against Advanced Persistent Threats in Industrial Internet of Things: A Prospect Theoretic Game. *Tian, W.*, +, *JIoT Dec. 15, 2021 17372-17381*

IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*

Power-Efficient Software-Defined Data Center Network. *Zhao, Y.*, +, *JIoT June 15, 2021 10018-10033*

SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*

SDN-Enabled Secure IoT Architecture. *Karmakar, K.K.*, +, *JIoT April 15, 2021 6549-6564*

Securing SDN-Controlled IoT Networks Through Edge Blockchain. *Hu, J.*, +, *JIoT Feb. 15, 2021 2102-2115*

SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K.*, *JIoT May 1, 2021 7407-7422*

Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*

Vulnerability Assessment of 6G-Enabled Smart Grid Cyber-Physical Systems. *Tariq, M.*, +, *JIoT April 1, 2021 5468-5475*

Software fault tolerance

Blockchain-Based Decentralized Authentication Modeling Scheme in Edge and IoT Environment. *Zhaofeng, M.*, +, *JIoT Feb. 15, 2021 2116-2123*

RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C.*, +, *JIoT March 15, 2021 4291-4304*

Software performance evaluation

Peer Offloading With Delayed Feedback in Fog Networks. *Yang, M.*, +, *JIoT Sept. 1, 2021 13690-13702*

Software radio

An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*

Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A.*, +, *JIoT March 15, 2021 4461-4471*

Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP. *Wan, G.C.*, +, *JIoT May 1, 2021 7476-7484*

Toward a Low-Cost Software-Defined UHF RFID System for Distributed Parallel Sensing. *Wang, Y.*, +, *JIoT Sept. 1, 2021 13664-13676*

- Soil**
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- CalibrationTalk: A Farming Sensor Failure Detection and Calibration Technique. *Lin, Y.*, +, *JIoT April 15, 2021 6893-6903*
- Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K.*, +, *JIoT April 15, 2021 6565-6577*
- Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*
- Solar cell arrays**
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- Solar power**
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H.*, +, *JIoT April 1, 2021 5230-5239*
- Solar power stations**
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J.*, +, *JIoT July 1, 2021 10347-10355*
- Solid modeling**
- A 3-D Nonstationary Wideband V2V GBSSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L.*, +, *JIoT Dec. 15, 2021 17622-17638*
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X.*, +, *JIoT Nov. 15, 2021 16598-16612*
- Sonar**
- CTrack: Acoustic Device-Free and Collaborative Hands Motion Tracking on Smartphones. *Jiang, H.*, +, *JIoT Oct. 1, 2021 14658-14671*
- Sorting**
- A Multiobjective Optimization Tool Chain for 3-D Indoor Beacon Placement Problem. *Sharma, R.*, +, *JIoT Sept. 1, 2021 13439-13448*
- A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. *Cui, Z.*, +, *JIoT Aug. 15, 2021 12540-12549*
- Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence. *Ma, L.*, +, *JIoT April 15, 2021 6757-6770*
- Space heating**
- IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*
- Sparse matrices**
- Deep Unfolding With Weighted ℓ_2 Minimization for Compressive Sensing. *Zhang, J.*, +, *JIoT Feb. 15, 2021 3027-3041*
- Spatial databases**
- Fast and Secure Location-Based Services in Smart Cities on Outsourced Data. *Wang, X.*, +, *JIoT Dec. 15, 2021 17639-17654*
- Spatial variables measurement**
- A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S.*, +, *JIoT Jan. 15, 2021 1082-1094*
- Spatiotemporal phenomena**
- Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C.*, +, *JIoT Dec. 1, 2021 16902-16910*
- Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L.*, +, *JIoT May 1, 2021 7589-7599*
- LMFNet: Human Activity Recognition Using Attentive 3-D Residual Network and Multistage Fusion Strategy. *Zhang, Z.*, +, *JIoT April 1, 2021 6012-6023*
- Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*
- Speaker recognition**
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y.*, +, *JIoT March 1, 2021 3500-3511*
- Special issues and sections**
- Guest Editorial Special Issue on 6G-Enabled Internet of Things. *Liang, Q.*, +, *JIoT Oct. 15, 2021 15037-15040*
- Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S.*, +, *JIoT Oct. 1, 2021 14431-14434*
- Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications. *Yu, Q.*, +, *JIoT Nov. 15, 2021 16191-16194*
- Guest Editorial Special Issue on Internet of Things for Smart Health and Emotion Care. *Chen, M.*, +, *JIoT Dec. 1, 2021 16718-16722*
- Guest Editorial Special Issue on Smart IoT System: Opportunities by Linking Cloud, Edge, and AI. *Yang, W.*, +, *JIoT Aug. 15, 2021 12478-12480*
- Guest Editorial: Special Issue on AI-Enabled Internet of Dependable and Controllable Things. *Yu, W.*, +, *JIoT March 1, 2021 3053-3056*
- Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. *Leung, V.C.M.*, +, *JIoT Feb. 15, 2021 2082-2086*
- Guest Editorial: Special Issue on Enabling Massive IoT With 6G: Applications, Architectures, Challenges, and Research Directions. *Mumtaz, S.*, +, *JIoT April 1, 2021 5111-5113*
- Guest Editorial: Special Issue on Internet of Things for Industrial Security for Smart Cities. *Lu, H.*, +, *JIoT April 15, 2021 6140-6142*
- Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. *Debbah, M.*, +, *JIoT June 15, 2021 9774-9775*
- Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*
- Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. *Fortino, G.*, +, *JIoT July 1, 2021 10220-10221*
- Special Issue on Robustness and Efficiency in the Convergence of Artificial Intelligence and IoT. *Qiu, M.*, +, *JIoT June 15, 2021 9460-9462*
- Spectrogram**
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*
- Speech recognition**
- Efficient and Privacy-Preserving Speaker Recognition for Cybertwin-Driven 6G. *Li, Q.*, +, *JIoT Nov. 15, 2021 16195-16206*
- Empowering Things With Intelligence: A Survey of the Progress, Challenges, and Opportunities in Artificial Intelligence of Things. *Zhang, J.*, +, *JIoT May 15, 2021 7789-7817*
- Privacy-Preserving Deep Learning Based on Multiparty Secure Computation: A Survey. *Zhang, Q.*, +, *JIoT July 1, 2021 10412-10429*
- Speech synthesis**
- Secure mmWave-Radar-Based Speaker Verification for IoT Smart Home. *Dong, Y.*, +, *JIoT March 1, 2021 3500-3511*
- Splines (mathematics)**
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- Sport**
- IoT-Inspired Framework for Athlete Performance Assessment in Smart Sport Industry. *Bhatia, M.*, *JIoT June 15, 2021 9523-9530*
- Position Invariance for Wearables: Interchangeability and Single-Unit Usage via Machine Learning. *Yurtman, A.*, +, *JIoT May 15, 2021 8328-8342*
- Spread spectrum communication**
- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- Interleaved Chirp Spreading LoRa as a Parallel Network to Enhance LoRa Capacity. *Edward, P.*, +, *JIoT March 1, 2021 3864-3874*
- SRAM chips**
- SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *Farha, F.*, +, *JIoT April 1, 2021 5904-5913*
- Stability**
- A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W.*, +, *JIoT Jan. 15, 2021 723-733*

- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S., +, JIoT July 15, 2021 11177-11192*
- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C., +, JIoT Jan. 1, 2021 262-277*
- Standards**
- Medical-Level Suicide Risk Analysis: A Novel Standard and Evaluation Model. *Wang, R., +, JIoT Dec. 1, 2021 16825-16834*
- Standards organizations**
- OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S., +, JIoT Nov. 15, 2021 16418-16426*
- State estimation**
- AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L., +, JIoT May 15, 2021 7889-7901*
- Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y., +, JIoT Oct. 1, 2021 14920-14933*
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T., +, JIoT March 1, 2021 3224-3241*
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A., +, JIoT Sept. 1, 2021 13278-13290*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S., +, JIoT July 15, 2021 11177-11192*
- Zero-Parameter-Information Data Integrity Attacks and Countermeasures in IoT-Based Smart Grid. *Zhang, Z., +, JIoT April 15, 2021 6608-6623*
- State-space methods**
- UAV Networks Against Multiple Maneuvering Smart Jamming With Knowledge-Based Reinforcement Learning. *Li, Z., +, JIoT Aug. 1, 2021 12289-12310*
- Statistical analysis**
- A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X., +, JIoT July 15, 2021 11276-11289*
- Aggregate Cyber-Risk Management in the IoT Age: *Cautionary Statistics for (Re)Insurers and Likes*. *Pal, R., +, JIoT May 1, 2021 7360-7371*
- An IoT-Based Hedge System for Solar Power Generation. *Syu, J., +, JIoT July 1, 2021 10347-10355*
- Car e-Talk: An IoT-Enabled Cloud-Assisted Smart Fleet Maintenance System. *Hussain, S., +, JIoT June 15, 2021 9484-9494*
- Channel Detection Under Impulsive Noise and Fading Environments for Smart Grid. *Tao, Y., +, JIoT Oct. 15, 2021 15407-15421*
- Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus. *Yu, H., +, JIoT Nov. 1, 2021 16096-16107*
- Empirical Models for NB-IoT Path Loss in an Urban Scenario. *Caso, G., +, JIoT Sept. 1, 2021 13774-13788*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L., +, JIoT April 1, 2021 5114-5128*
- Graph Learning Techniques Using Structured Data for IoT Air Pollution Monitoring Platforms. *Ferrer-Cid, P., +, JIoT Sept. 1, 2021 13652-13663*
- Key-Leakage Resilient Encrypted Data Aggregation With Lightweight Verification in Fog-Assisted Smart Grids. *Zhang, X., +, JIoT May 15, 2021 8234-8245*
- Learning Spatiotemporal Correlations for Missing Noisy PMU Data Correction in Smart Grid. *Zhu, L., +, JIoT May 1, 2021 7589-7599*
- Massive MIMO for High-Accuracy Target Localization and Tracking. *Zeng, X., +, JIoT June 15, 2021 10131-10145*
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B., +, JIoT July 15, 2021 11705-11716*
- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H., +, JIoT April 1, 2021 5632-5644*
- Request-Response and Censoring-Based Energy-Efficient Decentralized Change-Point Detection With IoT Applications. *Gu, Y., +, JIoT April 15, 2021 6771-6788*
- Statistical distributions**
- Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X., +, JIoT March 15, 2021 4526-4539*
- Statistical testing**
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F., +, JIoT Feb. 1, 2021 1636-1650*
- Comparing Apples and Oranges in IoT Context: A Deep Dive Into Methods for Comparing IoT Platforms. *Mijuskovic, A., +, JIoT Feb. 1, 2021 1797-1816*
- Stereo image processing**
- Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. *Yu, Y., +, JIoT Feb. 1, 2021 1740-1748*
- Stochastic games**
- Heterogeneous Task Offloading and Resource Allocations via Deep Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J., +, JIoT Jan. 15, 2021 1041-1056*
- Stochastic processes**
- A 3-D Nonstationary Wideband V2V GBSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L., +, JIoT Dec. 15, 2021 17622-17638*
- A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H., +, JIoT June 15, 2021 9865-9877*
- Age-Optimal Service and Decision Processes in Internet of Things. *Bao, Z., +, JIoT Feb. 15, 2021 2826-2841*
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H., +, JIoT Jan. 1, 2021 197-210*
- Coded Stochastic ADMM for Decentralized Consensus Optimization With Edge Computing. *Chen, H., +, JIoT April 1, 2021 5360-5373*
- Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y., +, JIoT Oct. 1, 2021 14920-14933*
- Decentralized Assignment of Electric Vehicles at Charging Stations Based on Personalized Cost Functions and Distributed Ledger Technologies. *Moschella, M., +, JIoT July 15, 2021 11112-11122*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V., +, JIoT March 1, 2021 3394-3409*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J., +, JIoT March 1, 2021 3462-3475*
- Mean Field Deep Reinforcement Learning for Fair and Efficient UAV Control. *Chen, D., +, JIoT Jan. 15, 2021 813-828*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M., +, JIoT July 1, 2021 10531-10542*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. *Farhat, J., +, JIoT Oct. 1, 2021 14672-14682*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B., +, JIoT Oct. 1, 2021 14485-14500*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L., +, JIoT Dec. 1, 2021 17057-17070*
- Peer Offloading in Mobile-Edge Computing With Worst Case Response Time Guarantees. *He, X., +, JIoT Feb. 15, 2021 2722-2735*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F., +, JIoT Jan. 15, 2021 778-790*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*
- Stochastic programming**
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B., +, JIoT July 15, 2021 11052-11064*
- Dynamic Resource Optimization for Decentralized Estimation in Energy Harvesting IoT Networks. *Battiloro, C., +, JIoT May 15, 2021 8530-8542*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J., +, JIoT March 1, 2021 3462-3475*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*

Storage management

Compacting Deep Neural Networks for Internet of Things: Methods and Applications. *Zhang, K.*, +, *JIoT Aug. 1, 2021 11935-11959*

Toward Verifiable Phrase Search Over Encrypted Cloud-Based IoT Data. *Ge, X.*, +, *JIoT Aug. 15, 2021 12902-12918*

Strain measurement

Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP. *Wan, G.C.*, +, *JIoT May 1, 2021 7476-7484*

Strain sensors

Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S.*, +, *JIoT Sept. 1, 2021 13763-13773*

Patch-Antenna-Based Structural Strain Measurement Using Optimized Energy Detection Algorithm Applied on USRP. *Wan, G.C.*, +, *JIoT May 1, 2021 7476-7484*

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

Streaming media

I-VISE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y.*, +, *JIoT Nov. 1, 2021 16181-16190*

Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*

Real-Time Mask Identification for COVID-19: An Edge-Computing-Based Deep Learning Framework. *Kong, X.*, +, *JIoT Nov. 1, 2021 15929-15938*

String matching

Malware on Internet of UAVs Detection Combining String Matching and Fourier Transformation. *Niu, W.*, +, *JIoT June 15, 2021 9905-9919*

Structural engineering

A Novel "Smart Skin" Sensor for Chipless RFID-Based Structural Health Monitoring Applications. *Dey, S.*, +, *JIoT March 1, 2021 3955-3971*

Structural engineering computing

Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *Zhang, W.*, +, *JIoT May 15, 2021 8021-8031*

Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A.*, +, *JIoT March 15, 2021 4433-4447*

Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*

Substrates

Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J.*, +, *JIoT Nov. 15, 2021 16313-16325*

Supercapacitors

Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*

IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P.*, +, *JIoT March 15, 2021 4830-4840*

Supervised learning

A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*

An Adversarial Examples Identification Method for Time Series in Internet-of-Things System. *Jiang, H.*, +, *JIoT June 15, 2021 9495-9510*

Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W.*, +, *JIoT April 1, 2021 5374-5385*

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*

Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence. *Saeed, A.*, +, *JIoT Jan. 15, 2021 1030-1040*

Leveraging Semisupervised Hierarchical Stacking Temporal Convolutional Network for Anomaly Detection in IoT Communication. *Cheng, Y.*, +, *JIoT Jan. 1, 2021 144-155*

Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M.*, +, *JIoT Aug. 1, 2021 12375-12383*

Sparse Common Feature Representation for Undersampled Face Recognition. *Yang, S.*, +, *JIoT April 1, 2021 5607-5618*

Supervisory programs

IoT-Enabled Automatic Synthesis of Distributed Feedback Control Schemes in Smart Buildings. *Milis, G.M.*, +, *JIoT Feb. 15, 2021 2615-2626*

Supply chain management

A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. *Hassija, V.*, +, *JIoT April 15, 2021 6222-6246*

Optimization of Relay Power and Load Control Period Based on Cost-Sharing Contract in Smart Grid Communications. *Liu, P.*, +, *JIoT Nov. 15, 2021 16559-16570*

Support vector machines

A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L.*, +, *JIoT Oct. 15, 2021 15249-15258*

A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y.*, +, *JIoT Dec. 15, 2021 17449-17459*

A Multikernel and Metaheuristic Feature Selection Approach for IoT Malware Threat Hunting in the Edge Layer. *Haddadpajouh, H.*, +, *JIoT March 15, 2021 4540-4547*

A Nonintrusive Elderly Home Monitoring System. *Fang, L.*, +, *JIoT Feb. 15, 2021 2603-2614*

Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*

An Efficient and Privacy-Preserving Outsourced Support Vector Machine Training for Internet of Medical Things. *Wang, J.*, +, *JIoT Jan. 1, 2021 458-473*

DFOPS: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. *Tarekegn, G.B.*, +, *JIoT March 1, 2021 3717-3729*

Deep-Learning-Enabled Security Issues in the Internet of Things. *Lv, Z.*, +, *JIoT June 15, 2021 9531-9538*

Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*

Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. *Nagasubramanian, G.*, +, *JIoT Aug. 15, 2021 12847-12854*

Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S.*, +, *JIoT Dec. 15, 2021 17460-17475*

Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*

iSense: Intelligent Object Sensing and Robot Tracking Through Networked Coupled Magnetic Resonant Coils. *Li, K.*, +, *JIoT April 15, 2021 6637-6648*

Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T.*, +, *JIoT Feb. 1, 2021 1533-1543*

Radio Identity Verification-Based IoT Security Using RF-DNA Fingerprints and SVM. *Reising, D.*, +, *JIoT May 15, 2021 8356-8371*

Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. *Abdulkareem, K.H.*, +, *JIoT Nov. 1, 2021 15919-15928*

Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. *Wang, Y.*, +, *JIoT Oct. 1, 2021 14999-15009*

sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q.*, +, *JIoT Dec. 1, 2021 16835-16844*

Verifiable and Secure SVM Classification for Cloud-Based Health Monitoring Services. *Liang, J.*, +, *JIoT Dec. 1, 2021 17029-17042*

Surface mount technology

Fully Passive-Printed Wireless Wear Sensor. *Serdah, M.*, +, *JIoT April 15, 2021 7036-7045*

Surgery

Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y.*, +, *JIoT Nov. 1, 2021 15965-15976*

Surveillance

- Cooperative Path Planning of UAVs & UGVs for a Persistent Surveillance Task in Urban Environments. *Wu, Y., +, JIoT March 15, 2021 4906-4919*
- I-ViSE: Interactive Video Surveillance as an Edge Service Using Unsupervised Feature Queries. *Nikouei, S.Y., +, JIoT Nov. 1, 2021 16181-16190*
- Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y., +, JIoT Feb. 15, 2021 2627-2634*

Sustainable development

- Deep-MAPS: Machine-Learning-Based Mobile Air Pollution Sensing. *Song, J., +, JIoT May 1, 2021 7649-7660*
- Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X., +, JIoT Sept. 1, 2021 13737-13749*

Swarm intelligence

- Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P., +, JIoT Oct. 15, 2021 15456-15467*

Synchronization

- A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network. *Zhao, S., +, JIoT June 1, 2021 9030-9044*
- Complexity-Effective Sequential Detection of Synchronization Signal for Cellular Narrowband IoT Communication Systems. *You, Y., +, JIoT Feb. 15, 2021 2900-2909*
- Digital-Twin-Enabled Intelligent Distributed Clock Synchronization in Industrial IoT Systems. *Jia, P., +, JIoT March 15, 2021 4548-4559*
- DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D., +, JIoT July 15, 2021 11666-11677*
- Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H., +, JIoT May 1, 2021 7437-7449*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L., +, JIoT May 1, 2021 7485-7496*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H., +, JIoT Oct. 1, 2021 14458-14470*
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H., +, JIoT March 15, 2021 4329-4338*
- Optimal Localization With Sequential Pseudorange Measurements for Moving Users in a Time-Division Broadcast Positioning System. *Zhao, S., +, JIoT June 1, 2021 8883-8896*
- Passive Network Synchronization Based on Concurrent Observations in Industrial IoT Systems. *Jia, P., +, JIoT Sept. 15, 2021 14028-14038*
- QuickCal: Assisted Calibration for Crystal-Free Micromotes. *Chang, T., +, JIoT Feb. 1, 2021 1846-1858*
- Robust Neighbor-Aware Time Synchronization Protocol for Wireless Sensor Network in Dynamic and Hostile Environments. *Phan, L., +, JIoT Feb. 1, 2021 1934-1945*
- Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L., +, JIoT May 15, 2021 7912-7924*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S., +, JIoT June 1, 2021 9099-9108*

System analysis and design

- Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J., +, JIoT July 15, 2021 11150-11162*

System-on-chip

- CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B., +, JIoT Dec. 15, 2021 17790-17801*
- Developing TEI-Aware Ultralow-Power SoC Platforms for IoT End Nodes. *Han, K., +, JIoT March 15, 2021 4642-4656*
- Lightweight Fuzzy Extractor Based on LPN for Device and Biometric Authentication in IoT. *Ebrahimi, S., +, JIoT July 1, 2021 10706-10713*

T**Target tracking**

- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*

- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X., +, JIoT Aug. 15, 2021 12588-12596*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangatah, A.K., +, JIoT June 15, 2021 9753-9762*
- Massive MIMO for High-Accuracy Target Localization and Tracking. *Zeng, X., +, JIoT June 15, 2021 10131-10145*
- MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D., +, JIoT March 1, 2021 3904-3914*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H., +, JIoT Feb. 15, 2021 2193-2207*
- Offloading Optimization in Edge Computing for Deep-Learning-Enabled Target Tracking by Internet of UAVs. *Yang, B., +, JIoT June 15, 2021 9878-9893*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M., +, JIoT June 1, 2021 9177-9188*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H., +, JIoT Sept. 15, 2021 14094-14109*

Task analysis

- A Combinatorial Auction Resource Trading Mechanism for Cyber-twin-Based 6G Network. *Liang, H., +, JIoT Nov. 15, 2021 16349-16358*
- A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J., +, JIoT Nov. 1, 2021 15818-15828*
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y., +, JIoT Nov. 15, 2021 16219-16230*
- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H., +, JIoT Nov. 1, 2021 15829-15838*
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C., +, JIoT Dec. 1, 2021 16911-16920*
- Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S., +, JIoT Nov. 1, 2021 15990-16001*
- Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*
- CoAP Acceleration on FPSoC for Resource Constrained Internet of Things Devices. *Batmaz, B., +, JIoT Dec. 15, 2021 17790-17801*
- Computer Audition for Fighting the SARS-CoV-2 Corona Crisis—Introducing the Multitask Speech Corpus for COVID-19. *Qian, K., +, JIoT Nov. 1, 2021 16035-16046*
- Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F., +, JIoT Dec. 1, 2021 16758-16769*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H., +, JIoT Nov. 1, 2021 15776-15784*
- Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S., +, JIoT Dec. 15, 2021 17460-17475*
- IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *Dhelim, S., +, JIoT Dec. 15, 2021 17817-17828*
- Joint Placement of UPF and Edge Server for 6G Network. *Li, Y., +, JIoT Nov. 15, 2021 16370-16378*
- Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. *Hu, H., +, JIoT Dec. 15, 2021 17541-17556*
- Multiagent Deep Reinforcement Learning for Task Offloading and Resource Allocation in Cybertwin-Based Networks. *Hou, W., +, JIoT Nov. 15, 2021 16256-16268*
- Optimizing Information Freshness in MEC-Assisted Status Update Systems With Heterogeneous Energy Harvesting Devices. *Liu, L., +, JIoT Dec. 1, 2021 17057-17070*
- PRICE: Privacy and Reliability-Aware Real-Time Incentive System for Crowdsensing. *Zhao, B., +, JIoT Dec. 15, 2021 17584-17595*
- Privacy-Enhanced Data Fusion for COVID-19 Applications in Intelligent Internet of Medical Things. *Lin, H., +, JIoT Nov. 1, 2021 15683-15693*
- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H., +, JIoT Dec. 15, 2021 17678-17690*

Resolving Multitask Competition for Constrained Resources in Dispersed Computing: A Bilateral Matching Game. *Wu, H., +, JIoT Dec. 1, 2021 16972-16983*

Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P., +, JIoT Nov. 1, 2021 15749-15761*

Task-Driven Data Offloading for Fog-Enabled Urban IoT Services. *Wang, P., +, JIoT May 1, 2021 7562-7574*

TCPIP

Development of Mobile IoT Solutions: Approaches, Architectures, and Methodologies. *Magaia, N., +, JIoT Nov. 15, 2021 16452-16472*

Technology management

Harnessing the Power of Smart and Connected Health to Tackle COVID-19: IoT, AI, Robotics, and Blockchain for a Better World. *Firouzi, F., +, JIoT Aug. 15, 2021 12826-12846*

Telecommunication computing

A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B., +, JIoT Sept. 1, 2021 13567-13581*

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H., +, JIoT July 15, 2021 11208-11218*

A Detection Framework Against CPMA Attack Based on Trust Evaluation and Machine Learning in IoT Network. *Liu, L., +, JIoT Oct. 15, 2021 15249-15258*

A Hybrid-Equivalent Surface-Edge Current Model for Simulation of V2X Communication Antennas With Arbitrarily Shaped Contour. *Zhao, H., +, JIoT May 15, 2021 8064-8077*

A Machine Learning Approach for Task and Resource Allocation in Mobile-Edge Computing-Based Networks. *Wang, S., +, JIoT Feb. 1, 2021 1358-1372*

A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G., +, JIoT March 1, 2021 3360-3368*

AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C., +, JIoT March 1, 2021 3157-3169*

An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q., +, JIoT Feb. 1, 2021 1453-1466*

Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J., +, JIoT March 1, 2021 3268-3275*

Codebook-Based Beam Tracking for Conformal Array-Enabled UAV mmWave Networks. *Zhang, J., +, JIoT Jan. 1, 2021 244-261*

Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D., +, JIoT May 15, 2021 8603-8615*

CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z., +, JIoT March 1, 2021 3422-3437*

Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X., +, JIoT Aug. 15, 2021 12588-12596*

Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R., +, JIoT Feb. 15, 2021 2517-2539*

Distributed TDMA for Mobile UWB Network Localization. *Cao, Y., +, JIoT Sept. 1, 2021 13449-13464*

Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W., +, JIoT June 15, 2021 9800-9813*

EasiEdge: A Novel Global Deep Neural Networks Pruning Method for Efficient Edge Computing. *Yu, F., +, JIoT Feb. 1, 2021 1259-1271*

Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H., +, JIoT Oct. 1, 2021 14787-14796*

Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X., +, JIoT Oct. 15, 2021 15107-15116*

Extreme Learning Machine for Accurate Indoor Localization Using RSSI Fingerprints in Multifloor Environments. *Yan, J., +, JIoT Oct. 1, 2021 14623-14637*

Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S., +, JIoT Oct. 1, 2021 14431-14434*

Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. *Jiao, J., +, JIoT Oct. 1, 2021 14773-14786*

Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C., +, JIoT Feb. 15, 2021 2802-2813*

Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. *Tang, X., +, JIoT June 15, 2021 9511-9522*

Joint Task Offloading and Computation in Cooperative Multicarrier Relaying-Based Mobile-Edge Computing Systems. *Hu, D., +, JIoT July 15, 2021 11487-11502*

Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q-Learning Approach. *Jia, R., +, JIoT Sept. 15, 2021 14299-14307*

Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. *Zhu, J., +, JIoT Sept. 1, 2021 13542-13554*

Multiaгент Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X., +, JIoT June 15, 2021 9763-9773*

Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J., +, JIoT July 15, 2021 11219-11232*

Multiview Variational Deep Learning With Application to Practical Indoor Localization. *Kim, M., +, JIoT Aug. 1, 2021 12375-12383*

NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G., +, JIoT July 15, 2021 11384-11399*

Network Service Chaining and Embedding With Provable Bounds. *Zheng, D., +, JIoT May 1, 2021 7140-7151*

Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y., +, JIoT Jan. 15, 2021 791-801*

Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C., +, JIoT June 1, 2021 9344-9358*

Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y., +, JIoT March 1, 2021 3567-3575*

Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C., JIoT Jan. 15, 2021 941-950*

Rateless TLRCM for IoT Uplink Transmission. *Rao, W., +, JIoT July 1, 2021 10608-10618*

Reinforcement Learning Meets Wireless Networks: A Layering Perspective. *Chen, Y., +, JIoT Jan. 1, 2021 85-111*

Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H., +, JIoT March 15, 2021 4957-4968*

Survivable Task Allocation in Cloud Radio Access Networks With Mobile-Edge Computing. *Yang, S., +, JIoT Jan. 15, 2021 1095-1108*

Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R., +, JIoT Jan. 15, 2021 916-926*

XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y., +, JIoT March 1, 2021 3446-3461*

Telecommunication congestion control

A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G., +, JIoT March 1, 2021 3360-3368*

EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S., +, JIoT July 15, 2021 11345-11356*

FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X., +, JIoT Jan. 1, 2021 610-625*

Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L., +, JIoT April 1, 2021 5574-5584*

Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J., +, JIoT July 15, 2021 11219-11232*

Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H., +, JIoT March 15, 2021 4668-4680*

Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things. *Borgiani, V., +, JIoT March 15, 2021 4569-4578*

Telecommunication control

A Deep Reinforcement Learning Framework for Spectrum Management in Dynamic Spectrum Access. *Song, H., +, JIoT July 15, 2021 11208-11218*

- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*
- A Scalable and Energy-Efficient IoT System Supported by Cell-Free Massive MIMO. *Yan, H.*, +, *JIoT Oct. 1, 2021 14705-14718*
- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*
- Cantor: Improving Goodput in LoRa Concurrent Transmission. *Xu, D.*, +, *JIoT Feb. 1, 2021 1519-1532*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y.*, +, *JIoT May 15, 2021 8399-8410*
- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. *Fang, T.*, +, *JIoT Sept. 15, 2021 14418-14430*
- Joint Optimization of UAV 3-D Placement and Path-Loss Factor for Energy-Efficient Maximal Coverage. *Shakoor, S.*, +, *JIoT June 15, 2021 9776-9786*
- LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. *Jia, Z.*, +, *JIoT June 15, 2021 9814-9826*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference. *Valiulahi, I.*, +, *JIoT March 1, 2021 3605-3618*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J.*, +, *JIoT Feb. 1, 2021 1883-1895*
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M.*, +, *JIoT Aug. 15, 2021 12983-12998*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W.*, +, *JIoT Jan. 15, 2021 723-733*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- Sum Rate and Reliability Analysis for Power-Domain Nonorthogonal Multiple Access (PD-NOMA). *Park, T.*, +, *JIoT June 15, 2021 10160-10169*
- URLLC-Oriented Joint Power Control and Resource Allocation in UAV-Assisted Networks. *Chen, K.*, +, *JIoT June 15, 2021 10103-10116*
- Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*

Telecommunication network management

- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*
- Caching in Dynamic IoT Networks by Deep Reinforcement Learning. *Yao, J.*, +, *JIoT March 1, 2021 3268-3275*
- Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S.*, +, *JIoT April 15, 2021 6498-6518*
- Dissecting Energy Consumption of NB-IoT Devices Empirically. *Micelinakis, F.*, +, *JIoT Jan. 15, 2021 1224-1242*
- Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*
- Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. *Wang, B.*, +, *JIoT Feb. 1, 2021 1830-1845*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T.*, +, *JIoT May 15, 2021 8387-8398*
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W.*, +, *JIoT Sept. 1, 2021 13237-13250*

Telecommunication network planning

- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G.*, +, *JIoT Jan. 15, 2021 684-694*
- A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*

- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*
- Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning. *Gu, X.*, +, *JIoT Sept. 1, 2021 13209-13221*
- High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network. *Sun, Y.*, +, *JIoT Jan. 15, 2021 1071-1081*
- Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F.*, +, *JIoT June 15, 2021 10170-10186*
- Modeling and Analysis of Stochastic Mobile-Edge Computing Wireless Networks. *Gu, Y.*, +, *JIoT Sept. 15, 2021 14051-14065*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*
- Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. *Shi, W.*, +, *JIoT Oct. 1, 2021 14572-14588*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F.*, +, *JIoT Aug. 15, 2021 13095-13114*
- UAV-Supported Clustered NOMA for 6G-Enabled Internet of Things: Trajectory Planning and Resource Allocation. *Na, Z.*, +, *JIoT Oct. 15, 2021 15041-15048*

Telecommunication network reliability

- A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. *Thomas, D.*, +, *JIoT March 1, 2021 3587-3604*
- A Secured and Reliable Continuous Transmission Scheme in Cognitive HARQ-Aided Internet of Things. *Khan, F.*, +, *JIoT Oct. 1, 2021 14835-14844*
- An Approach for Mitigation of Beam Blockage in mmWave-Based Indoor Networks. *Bhattacharjee, A.*, +, *JIoT Oct. 1, 2021 14607-14622*
- AoI-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X.*, +, *JIoT May 15, 2021 8464-8473*
- Communication and Consensus Co-Design for Distributed, Low-Latency, and Reliable Wireless Systems. *Seo, H.*, +, *JIoT Jan. 1, 2021 129-143*
- Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D.*, +, *JIoT May 15, 2021 8603-8615*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Delay-Constrained Buffer-Aided Relay Selection in the Internet of Things With Decision-Assisted Reinforcement Learning. *Huang, C.*, +, *JIoT June 15, 2021 10198-10208*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K.*, +, *JIoT Feb. 1, 2021 1347-1357*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH. *Wang, H.*, +, *JIoT July 1, 2021 10499-10508*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H.*, +, *JIoT Oct. 1, 2021 14787-14796*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*
- Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M.*, +, *JIoT Jan. 1, 2021 179-186*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*
- FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying *Ad Hoc* Network. *Huang, X.*, +, *JIoT Jan. 1, 2021 610-625*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*
- IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*

- Improved Soft- k -Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B.*, +, *JIoT March 15, 2021 4868-4881*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D.*, +, *JIoT Aug. 15, 2021 12855-12879*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J.*, +, *JIoT Oct. 15, 2021 15126-15139*
- NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks. *Choudhury, N.*, +, *JIoT Jan. 1, 2021 168-178*
- On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. *Zhang, F.*, +, *JIoT April 1, 2021 6101-6113*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L.*, +, *JIoT March 1, 2021 3524-3533*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. *Duan, W.*, +, *JIoT April 15, 2021 6154-6166*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T.*, +, *JIoT July 15, 2021 11655-11665*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. *Li, T.*, +, *JIoT May 15, 2021 8387-8398*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- ReapIoT: Reliable, Energy-Aware Network Protocol for Large-Scale Internet-of-Things (IoT) Applications. *Badi, A.*, +, *JIoT Sept. 1, 2021 13582-13592*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*
- Robust Design for Integrated Satellite-Terrestrial Internet of Things. *Chu, J.*, +, *JIoT June 1, 2021 9072-9083*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G.*, +, *JIoT July 1, 2021 10714-10730*
- SmartDetour: Defending Blackhole and Content Poisoning Attacks in IoT NDN Networks. *Yang, N.*, +, *JIoT Aug. 1, 2021 12119-12136*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*
- The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F.*, +, *JIoT Sept. 1, 2021 13266-13277*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U.*, +, *JIoT Jan. 1, 2021 443-457*
- Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. *Shi, H.*, +, *JIoT Jan. 1, 2021 381-392*
- URLLC Facilitated by Mobile UAV Relay and RIS: A Joint Design of Passive Beamforming, Blocklength, and UAV Positioning. *Ranjha, A.*, +, *JIoT March 15, 2021 4618-4627*
- Utilizing Coherent Transmission in Cooperative Compressive Sensing in IoT. *Han, C.*, +, *JIoT Sept. 1, 2021 13555-13566*
- Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*
- Win-Win-Driven D2D Content Sharing. *Wu, D.*, +, *JIoT May 1, 2021 7346-7359*
- Telecommunication network routing**
- A New Preventive Routing Method Based on Clustering and Location Prediction in the Mobile Internet of Things. *Sadrishojaei, M.*, +, *JIoT July 1, 2021 10652-10664*
- A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V.*, +, *JIoT July 15, 2021 11320-11328*
- A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*
- An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. *Mahyoub, M.*, +, *JIoT May 1, 2021 7152-7169*
- Context-Aware Adaptive Route Mutation Scheme: A Reinforcement Learning Approach. *Xu, C.*, +, *JIoT Sept. 1, 2021 13528-13541*
- Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X.*, +, *JIoT Oct. 1, 2021 14501-14513*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- Dynamically Transient Social Community Detection for Mobile Social Networks. *Bi, X.*, +, *JIoT Feb. 1, 2021 1282-1293*
- Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R.*, +, *JIoT Aug. 1, 2021 12410-12421*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*
- Incentive Jamming-Based Secure Routing in Decentralized Internet of Things. *Xu, Y.*, +, *JIoT Feb. 15, 2021 3000-3013*
- Localization Algorithm for Underwater Sensor Network: A Review. *Luo, J.*, +, *JIoT Sept. 1, 2021 13126-13144*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M.*, +, *JIoT July 1, 2021 10745-10754*
- Power-Efficient Software-Defined Data Center Network. *Zhao, Y.*, +, *JIoT June 15, 2021 10018-10033*
- Practical Network Coding Technologies and Softwarization in Wireless Networks. *Zhu, F.*, +, *JIoT April 1, 2021 5211-5218*
- Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L.*, +, *JIoT May 15, 2021 8246-8258*
- Telecommunication network topology**
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. *Qiu, T.*, +, *JIoT June 15, 2021 9473-9483*
- A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. *Muzammal, S.M.*, +, *JIoT March 15, 2021 4186-4210*
- A Novel Heuristic Data Routing for Urban Vehicular *Ad Hoc* Networks. *Hawbani, A.*, +, *JIoT June 1, 2021 8976-8989*
- A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C.*, +, *JIoT Aug. 15, 2021 12481-12489*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*
- A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H.*, +, *JIoT April 1, 2021 6002-6011*
- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*
- Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks. *Choi, H.*, +, *JIoT Feb. 1, 2021 1611-1622*
- Distributed TDMA for Mobile UWB Network Localization. *Cao, Y.*, +, *JIoT Sept. 1, 2021 13449-13464*

- EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. *Yang, S.*, +, *JIoT June 15, 2021 9580-9593*
- Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K.*, +, *JIoT June 15, 2021 9753-9762*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R.*, +, *JIoT Aug. 1, 2021 12410-12421*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L.*, +, *JIoT May 1, 2021 7485-7496*
- Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. *Yu, C.*, +, *JIoT April 15, 2021 7101-7102*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks. *Choudhury, N.*, +, *JIoT Jan. 1, 2021 168-178*
- NUPFA: A Novel Nonuniform Power Formation Algorithm for BLE Mesh Networks. *Yu, C.*, +, *JIoT April 15, 2021 7103-7104*
- QoE-Aware Intelligent Satellite Constellation Design in Satellite Internet of Things. *Dai, C.*, +, *JIoT March 15, 2021 4855-4867*
- SD-MIoT: A Software-Defined Networking Solution for Mobile Internet of Things. *Theodorou, T.*, +, *JIoT March 15, 2021 4604-4617*
- Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L.*, +, *JIoT June 1, 2021 8854-8864*
- Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. *Dautta, M.*, +, *JIoT May 1, 2021 7600-7609*
- XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y.*, +, *JIoT March 1, 2021 3446-3461*
- Telecommunication power management**
- A Blockchain-Enabled Energy-Efficient Data Collection System for UAV-Assisted IoT. *Xu, X.*, +, *JIoT Feb. 15, 2021 2431-2443*
- A CP Reduction Scheme Based on Symbol Repetition for Narrow-Band IoT Systems. *Kong, D.*, +, *JIoT Aug. 15, 2021 12880-12891*
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*
- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. *Han, G.*, +, *JIoT Jan. 15, 2021 684-694*
- A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*
- Achievable Computation Rate in NOMA-Based Wireless-Powered Networks Assisted by Multiple Fog Servers. *Zheng, H.*, +, *JIoT March 15, 2021 4802-4815*
- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M.*, *JIoT Feb. 15, 2021 2585-2602*
- An Application-Driven Nonorthogonal-Multiple-Access-Enabled Computation Offloading Scheme. *Ren, Q.*, +, *JIoT Feb. 1, 2021 1453-1466*
- An Efficient Spectrum Utilization Scheme for Energy-Constrained IoT Devices in Cellular Networks. *Mughal, D.M.*, +, *JIoT Sept. 1, 2021 13414-13424*
- An Empirical Modeling for the Baseline Energy Consumption of an NB-IoT Radio Transceiver. *Khan, S.M.Z.*, +, *JIoT Oct. 1, 2021 14756-14772*
- An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. *Lee, J.*, +, *JIoT May 1, 2021 7105-7114*
- Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks. *Hentati, A.*, +, *JIoT March 15, 2021 4920-4930*
- Any-path Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y.*, +, *JIoT May 15, 2021 8173-8190*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H.*, +, *JIoT April 1, 2021 5230-5239*
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C.*, +, *JIoT Feb. 15, 2021 2694-2711*
- Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. *Gong, S.*, +, *JIoT May 15, 2021 8585-8602*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z.*, +, *JIoT April 1, 2021 5350-5359*
- Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*
- BMADS: BLE Mesh Asynchronous Dynamic Scanning. *Perez-Diaz-de-Cerio, D.*, +, *JIoT Feb. 15, 2021 2558-2573*
- Cantor: Improving Goodput in LoRa Concurrent Transmission. *Xu, D.*, +, *JIoT Feb. 1, 2021 1519-1532*
- Combination of Task Allocation and Approximate Computing for Fog-Architecture-Based IoT. *Yu, W.*, +, *JIoT May 1, 2021 7638-7648*
- Computation Energy Efficiency Maximization for a NOMA-Based WPT-MEC Network. *Shi, L.*, +, *JIoT July 1, 2021 10731-10744*
- Cooperative Wireless-Powered NOMA Relaying for B5G IoT Networks With Hardware Impairments and Channel Estimation Errors. *Li, X.*, +, *JIoT April 1, 2021 5453-5467*
- Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*
- Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S.*, +, *JIoT Oct. 15, 2021 15628-15638*
- Directional Multipoint Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S.*, +, *JIoT April 1, 2021 5850-5865*
- Dynamic Charging Scheme Problem With Actor-Critic Reinforcement Learning. *Yang, M.*, +, *JIoT Jan. 1, 2021 370-380*
- Dynamic Resource Optimization for Decentralized Estimation in Energy Harvesting IoT Networks. *Battiloro, C.*, +, *JIoT May 15, 2021 8530-8542*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*
- Efficient and Stateless P2P Routing Mechanisms for the Internet of Things. *Djamaa, B.*, +, *JIoT July 15, 2021 11400-11414*
- ELITE: An Elaborated Cross-Layer RPL Objective Function to Achieve Energy Efficiency in Internet-of-Things Devices. *Safaei, B.*, +, *JIoT Jan. 15, 2021 1169-1182*
- Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M.*, +, *JIoT Jan. 1, 2021 179-186*
- Energy Efficiency of Two-Way Communications Under Various Duplex Modes. *Guo, W.*, +, *JIoT Feb. 1, 2021 1921-1933*
- Energy-Adaptive and Bottleneck-Aware Many-to-Many Communication Scheduling for Battery-Free WSNs. *Yao, B.*, +, *JIoT May 15, 2021 8514-8529*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K.*, +, *JIoT June 15, 2021 9753-9762*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*
- Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M.*, +, *JIoT Oct. 15, 2021 15205-15215*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R.*, +, *JIoT Sept. 1, 2021 13593-13607*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- Energy-Efficient Operation of Massive MIMO in Industrial Internet-of-Things Networks. *Lee, B.M.*, *JIoT May 1, 2021 7252-7269*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Energy-Efficient Resource Allocation and Data Transmission of Cell-Free Internet of Things. *Zhang, X.*, +, *JIoT Oct. 15, 2021 15107-15116*
- Energy-Efficient Resource Allocation in Massive MIMO-NOMA Networks With Wireless Power Transfer: A Distributed ADMM Approach. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14232-14247*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A.*, +, *JIoT April 1, 2021 5194-5201*

- Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. *Bi, J., +, JIoT March 1, 2021 3774-3785*
- Exploring the Boundaries of Ambient RF Energy Harvesting With LoRaWAN. *Finnegan, J., +, JIoT April 1, 2021 5736-5743*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T., +, JIoT Jan. 15, 2021 766-777*
- Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R., +, JIoT March 15, 2021 4697-4710*
- Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K., +, JIoT July 1, 2021 10308-10317*
- High-Confidence Gateway Planning and Performance Evaluation of a Hybrid LoRa Network. *Sun, Y., +, JIoT Jan. 15, 2021 1071-1081*
- Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X., +, JIoT Jan. 15, 2021 901-915*
- Improved Soft- k -Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B., +, JIoT March 15, 2021 4868-4881*
- Joint Beamforming and Power Control for Throughput Maximization in IRS-Assisted MISO WPCNs. *Zheng, Y., +, JIoT May 15, 2021 8399-8410*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S., +, JIoT Jan. 15, 2021 989-1000*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. *Shim, Y., +, JIoT Feb. 15, 2021 2792-2801*
- Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. *Yu, C., +, JIoT April 15, 2021 7101-7102*
- Learning-Based Queue-Aware Task Offloading and Resource Allocation for Space-Air-Ground-Integrated Power IoT. *Liao, H., +, JIoT April 1, 2021 5250-5263*
- Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q -Learning Approach. *Jia, R., +, JIoT Sept. 15, 2021 14299-14307*
- Massive MIMO for Underwater Industrial Internet of Things Networks. *Lee, B.M., JIoT Oct. 15, 2021 15542-15552*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J., +, JIoT Oct. 15, 2021 15126-15139*
- Max Completion Time Optimization for Internet of Things in LEO Satellite-Terrestrial Integrated Networks. *Gao, Z., +, JIoT June 15, 2021 9981-9994*
- Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y., +, JIoT Aug. 1, 2021 12266-12278*
- Modeling and Online Adaptation of ALOHA for Low-Power Wide-Area Networks (LPWANs). *Seo, J., +, JIoT Oct. 15, 2021 15608-15619*
- Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Non-orthogonal Multiple Access Schemes. *Wang, J., +, JIoT Feb. 1, 2021 1883-1895*
- Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things. *Liao, Z., +, JIoT May 1, 2021 7575-7588*
- NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G., +, JIoT July 15, 2021 11384-11399*
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. *Ku, M., +, JIoT Aug. 15, 2021 12983-12998*
- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y., +, JIoT Jan. 15, 2021 791-801*
- Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. *Yan, Y., +, JIoT May 15, 2021 8159-8172*
- Performance Evaluation of Power-Beacon-Assisted Wireless-Powered NOMA IoT-Based Systems. *Vu, T., +, JIoT July 15, 2021 11655-11665*
- Performance of Two-Hop Links With an Energy Buffer-Aided IoT Source and a Data Buffer-Aided Relay. *Bapatla, D., +, JIoT March 15, 2021 5045-5061*
- Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L., +, JIoT July 1, 2021 10518-10530*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G., +, JIoT May 15, 2021 8543-8556*
- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H., +, JIoT April 1, 2021 5632-5644*
- Rateless TLRCM for IoT Uplink Transmission. *Rao, W., +, JIoT July 1, 2021 10608-10618*
- Real-Time Imprecise Computation Tasks Mapping for DVFS-Enabled Networked Systems. *Mo, L., +, JIoT May 15, 2021 8246-8258*
- Real-Time Task Scheduling on Intermittently Powered Batteryless Devices. *Karimi, M., +, JIoT Sept. 1, 2021 13328-13342*
- Relay Selection for Energy-Harvesting Relays With Finite Data Buffer and Energy Storage. *Lin, C., +, JIoT July 15, 2021 11249-11259*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K., +, JIoT Sept. 1, 2021 13343-13354*
- Request-Response and Censoring-Based Energy-Efficient Decentralized Change-Point Detection With IoT Applications. *Gu, Y., +, JIoT April 15, 2021 6771-6788*
- Reward-Oriented Task Offloading Under Limited Edge Server Power for Multiaccess Edge Computing. *Song, M., +, JIoT Sept. 1, 2021 13425-13438*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. *Zhu, Z., +, JIoT Feb. 1, 2021 1702-1715*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J., +, JIoT Feb. 1, 2021 1959-1970*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. *Xu, Y., +, JIoT Oct. 1, 2021 14908-14919*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K., +, JIoT Feb. 1, 2021 1467-1476*
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. *Sun, X., +, JIoT Jan. 1, 2021 528-540*
- Self-Sustainable Long-Range Backscattering Communication Using RF Energy Harvesting. *Tang, X., +, JIoT Sept. 1, 2021 13737-13749*
- Slope-Shift Keying LoRa-Based Modulation. *Hanif, M., +, JIoT Jan. 1, 2021 211-221*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X., +, JIoT April 1, 2021 5240-5249*
- Sum-Rate Maximization in IRS-Assisted Wireless Power Communication Networks. *Li, X., +, JIoT Oct. 1, 2021 14959-14970*
- Sum-Throughput Maximization in NOMA-Based WPCN: A Cluster-Specific Beamforming Approach. *Song, D., +, JIoT July 1, 2021 10543-10556*
- SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. *Lu, W., +, JIoT Oct. 15, 2021 15070-15080*
- Toward 6G Architecture for Energy-Efficient Communication in IoT-Enabled Smart Automation Systems. *Sodhro, A.H., +, JIoT April 1, 2021 5141-5148*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H., +, JIoT June 15, 2021 9664-9671*
- Toward Green Communication in 6G-Enabled Massive Internet of Things. *Verma, S., +, JIoT April 1, 2021 5408-5415*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X., +, JIoT Feb. 1, 2021 1728-1739*
- Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J., +, JIoT Feb. 15, 2021 2992-2999*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z., +, JIoT Feb. 1, 2021 1585-1598*
- Telecommunication power supplies**
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H., +, JIoT April 1, 2021 5230-5239*
- Telecommunication scheduling**
- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*

- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H.*, +, *JIoT Feb. 15, 2021 2124-2134*
- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M.*, *JIoT Feb. 15, 2021 2585-2602*
- Closing the Loop: A High-Performance Connectivity Solution for Realizing Wireless Closed-Loop Control in Industrial IoT Applications. *Aijaz, A.*, +, *JIoT Aug. 1, 2021 11860-11876*
- Competitive Age of Information in Dynamic IoT Networks. *Yu, D.*, +, *JIoT Oct. 15, 2021 15160-15169*
- Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication. *Budhiraja, I.*, +, *JIoT March 1, 2021 3143-3156*
- Distributed TDMA for Mobile UWB Network Localization. *Cao, Y.*, +, *JIoT Sept. 1, 2021 13449-13464*
- Energy-Adaptive and Bottleneck-Aware Many-to-Many Communication Scheduling for Battery-Free WSNs. *Yao, B.*, +, *JIoT May 15, 2021 8514-8529*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*
- Energy-Efficient Data and Energy Integrated Management Strategy for IoT Devices Based on RF Energy Harvesting. *Wang, Y.*, +, *JIoT Sept. 1, 2021 13640-13651*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T.*, +, *JIoT Jan. 15, 2021 766-777*
- Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*
- Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y.*, *JIoT April 1, 2021 5657-5668*
- Information-Centric Massive IoT-Based Ubiquitous Connected VR/AR in 6G: A Proposed Caching Consensus Approach. *Liao, S.*, +, *JIoT April 1, 2021 5172-5184*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H.*, +, *JIoT Sept. 1, 2021 13397-13413*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X.*, +, *JIoT Jan. 1, 2021 332-344*
- LoRaWAN Scheduling: From Concept to Implementation. *Garrido-Hidalgo, C.*, +, *JIoT Aug. 15, 2021 12919-12933*
- MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J.*, +, *JIoT June 15, 2021 9958-9969*
- Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W.*, +, *JIoT Aug. 1, 2021 12398-12409*
- Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. *Li, C.*, +, *JIoT Oct. 1, 2021 14543-14558*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- NPDCCH Period Adaptation and Downlink Scheduling for NB-IoT Networks. *Yu, Y.*, *JIoT Jan. 15, 2021 962-975*
- On Reliability Bound and Improvement of Sensing-Based Semipersistent Scheduling in LTE-V2X. *Zhang, F.*, +, *JIoT April 1, 2021 6101-6113*
- Online Dispatching and Fair Scheduling of Edge Computing Tasks: A Learning-Based Approach. *Yuan, H.*, +, *JIoT Oct. 1, 2021 14985-14998*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. *Chinaei, M.H.*, +, *JIoT June 15, 2021 10117-10130*
- Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. *Li, B.*, +, *JIoT Oct. 1, 2021 14485-14500*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*
- Real-Time Task Scheduling on Intermittently Powered Batteryless Devices. *Karimi, M.*, +, *JIoT Sept. 1, 2021 13328-13342*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q.*, +, *JIoT June 15, 2021 10146-10159*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*
- Throughput Enhancement of Full-Duplex CSMA Networks Using Multi-player Bandits. *Tong, J.*, +, *JIoT Aug. 1, 2021 11807-11821*
- Transmission Scheduling for Hybrid Backscatter-HTTP Nodes. *Zhong, S.*, +, *JIoT Feb. 1, 2021 1769-1782*
- Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. *Shi, H.*, +, *JIoT Jan. 1, 2021 381-392*
- Telecommunication security**
- Ad Hoc* Vehicular Fog Enabling Cooperative Low-Latency Intrusion Detection. *Mourad, A.*, +, *JIoT Jan. 15, 2021 829-843*
- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular *Ad Hoc* Networks. *Cai, Y.*, +, *JIoT Jan. 1, 2021 647-656*
- A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M.*, +, *JIoT March 15, 2021 4373-4388*
- A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*
- A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs. *Wang, C.*, +, *JIoT Sept. 15, 2021 14248-14257*
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J.*, +, *JIoT June 15, 2021 10034-10046*
- A Privacy-Aware PUFs-Based Multiserver Authentication Protocol in Cloud-Edge IoT Systems Using Blockchain. *Zhang, Y.*, +, *JIoT Sept. 15, 2021 13958-13974*
- A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F.*, +, *JIoT Feb. 15, 2021 2468-2482*
- A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*
- Accelerometer-Based Key Generation and Distribution Method for Wearable IoT Devices. *Sun, F.*, +, *JIoT Feb. 1, 2021 1636-1650*
- AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C.*, +, *JIoT March 1, 2021 3157-3169*
- An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. *Yang, W.*, +, *JIoT March 15, 2021 5000-5008*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. *Ma, J.*, +, *JIoT July 1, 2021 10873-10883*
- Authentication and Key Management in Distributed IoT Using Blockchain Technology. *Panda, S.S.*, +, *JIoT Aug. 15, 2021 12947-12954*
- Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts. *Patel, N.S.*, +, *JIoT Oct. 1, 2021 14797-14809*
- BTMP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z.*, +, *JIoT April 1, 2021 5386-5407*
- Challenges and New Directions in Securing Spectrum Access Systems. *Shi, S.*, +, *JIoT April 15, 2021 6498-6518*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Covert Communication in Relay-Assisted IoT Systems. *Gao, C.*, +, *JIoT April 15, 2021 6313-6323*
- Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*
- Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J.*, +, *JIoT Jan. 15, 2021 1140-1153*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular *Ad Hoc* Networks. *Thumbur, G.*, +, *JIoT Feb. 1, 2021 1908-1920*

- Efficient Certificateless Online/Offline Signature Scheme for Wireless Body Area Networks. Peng, C., +, *JIoT Sept. 15, 2021 14287-14298*
- Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation. Li, G., +, *JIoT Jan. 1, 2021 357-369*
- Game-Theoretic Actor-Critic-Based Intrusion Response Scheme (GTAC-IRS) for Wireless SDN-Based IoT Networks. Wang, B., +, *JIoT Feb. 1, 2021 1830-1845*
- Group Handover for Drone Base Stations. Aydin, Y., +, *JIoT Sept. 15, 2021 13876-13887*
- I-SEE: Intelligent, Secure, and Energy-Efficient Techniques for Medical Data Transmission Using Deep Reinforcement Learning. Saria Allahham, M., +, *JIoT April 15, 2021 6454-6468*
- InPPTD: A Lightweight Incentive-Based Privacy-Preserving Truth Discovery for Crowdsensing Systems. Xue, K., +, *JIoT March 15, 2021 4305-4316*
- IoTcop: A Blockchain-Based Monitoring Framework for Detection and Isolation of Malicious Devices in Internet-of-Things Systems. Seshadri, S.S., +, *JIoT March 1, 2021 3346-3359*
- Is 5G Handover Secure and Private? A Survey. Zhao, D., +, *JIoT Aug. 15, 2021 12855-12879*
- Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks. Xiao, H., +, *JIoT Sept. 15, 2021 13926-13938*
- Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. Fang, T., +, *JIoT Sept. 15, 2021 14418-14430*
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. Forouzes, M., +, *JIoT May 1, 2021 7170-7181*
- Joint Trajectory Design and Resource Allocation for Secure Transmission in Cache-Enabled UAV-Relaying Networks With D2D Communications. Ji, J., +, *JIoT Feb. 1, 2021 1557-1571*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. Xi, W., +, *JIoT Aug. 15, 2021 12758-12770*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. Upadhyaya, B., +, *JIoT July 15, 2021 11705-11716*
- Novel Postquantum MQ-Based Signature Scheme for Internet of Things With Parallel Implementation. Akleylek, S., +, *JIoT April 15, 2021 6983-6994*
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. Guo, H., +, *JIoT March 15, 2021 4329-4338*
- On Designing a Lesser Obtrusive Authentication Protocol to Prevent Machine-Learning-Based Threats in Internet of Things. Chakraborty, N., +, *JIoT March 1, 2021 3255-3267*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. Zhang, T., +, *JIoT Oct. 15, 2021 15334-15348*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Colluding Eavesdroppers. Farhat, J., +, *JIoT Oct. 1, 2021 14672-14682*
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. Alipour-Fanid, A., +, *JIoT Sept. 1, 2021 13278-13290*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. Chinaei, M.H., +, *JIoT June 15, 2021 10117-10130*
- Partial-DF Full-Duplex D2D-NOMA Systems for IoT With/Without an Eavesdropper. Duan, W., +, *JIoT April 15, 2021 6154-6166*
- Permissioned Blockchain-Based Anonymous and Traceable Aggregate Signature Scheme for Industrial Internet of Things. Li, T., +, *JIoT May 15, 2021 8387-8398*
- PoisonGAN: Generative Poisoning Attacks Against Federated Learning in Edge Computing Systems. Zhang, J., +, *JIoT March 1, 2021 3310-3322*
- PPCS: An Intelligent Privacy-Preserving Mobile-Edge Crowdsensing Strategy for Industrial IoT. Wang, X., +, *JIoT July 1, 2021 10288-10298*
- Privacy-Preserving Group Authentication for RFID Tags Using Bit-Collision Patterns. Yang, A., +, *JIoT July 15, 2021 11607-11620*
- ReapIoT: Reliable, Energy-Aware Network Protocol for Large-Scale Internet-of-Things (IoT) Applications. Badi, A., +, *JIoT Sept. 1, 2021 13582-13592*
- Robust Beamforming Designs in Secure MIMO SWIPT IoT Networks With a Nonlinear Channel Model. Zhu, Z., +, *JIoT Feb. 1, 2021 1702-1715*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. Wang, C., +, *JIoT Aug. 15, 2021 13024-13038*
- Robust Neighbor-Aware Time Synchronization Protocol for Wireless Sensor Network in Dynamic and Hostile Environments. Phan, L., +, *JIoT Feb. 1, 2021 1934-1945*
- Robust Secure Energy-Efficiency Optimization in SWIPT-Aided Heterogeneous Networks With a Nonlinear Energy-Harvesting Model. Xu, Y., +, *JIoT Oct. 1, 2021 14908-14919*
- Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. Altaf, A., +, *JIoT May 1, 2021 7497-7509*
- RSS: An Energy-Efficient Approach for Securing IoT Service Protocols Against the DoS Attack. Ghahramani, M., +, *JIoT March 1, 2021 3619-3635*
- Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. Huang, Z., +, *JIoT April 15, 2021 6385-6392*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. Lee, K., +, *JIoT Feb. 1, 2021 1467-1476*
- Secure Communication for Multiquadrotor Networks Using Ethereum Blockchain. Abichandani, P., +, *JIoT Feb. 1, 2021 1783-1796*
- Secure mmWave UAV-Enabled SWIPT Networks Based on Random Frequency Diverse Arrays. Sun, X., +, *JIoT Jan. 1, 2021 528-540*
- Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. Vinoth, R., +, *JIoT March 1, 2021 3801-3811*
- Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. Zhao, N., +, *JIoT March 15, 2021 4711-4722*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. Pirayesh, H., +, *JIoT March 15, 2021 4957-4968*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. Makarfi, A.U., +, *JIoT Jan. 1, 2021 443-457*
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. Qiu, H., +, *JIoT March 1, 2021 3180-3188*
- Telecommunication services**
- Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. Li, J., +, *JIoT July 15, 2021 11219-11232*
- Telecommunication signaling**
- Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. Ku, M., +, *JIoT Aug. 15, 2021 12983-12998*
- Telecommunication standards**
- Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks. Zhou, P., +, *JIoT July 1, 2021 10237-10247*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. Abouamar, A., +, *JIoT July 15, 2021 11088-11099*
- Telecommunication switching**
- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. Lee, B.M., *JIoT Feb. 15, 2021 2585-2602*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. He, W., +, *JIoT April 15, 2021 6293-6304*
- Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. Zhao, L., +, *JIoT April 1, 2021 5574-5584*
- Joint Time Allocation for Wireless Energy Harvesting Decode-and-Forward Relay-Based IoT Networks With Rechargeable and Nonrechargeable Batteries. Shim, Y., +, *JIoT Feb. 15, 2021 2792-2801*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. Lee, K., +, *JIoT Feb. 1, 2021 1467-1476*
- Telecommunication traffic**
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. Qiu, T., +, *JIoT June 15, 2021 9473-9483*
- A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. Qi, H., +, *JIoT Feb. 15, 2021 2124-2134*
- A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IIoT Platforms. Ouedraogo, C.A., +, *JIoT March 1, 2021 3885-3903*

- A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variant as a Novel Feature. *Hagos, D.H.*, +, *JIoT March 1, 2021 3534-3553*
- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*
- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N.*, +, *JIoT Sept. 15, 2021 14080-14093*
- A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. *Zhou, B.*, +, *JIoT May 1, 2021 7203-7213*
- A Response-Aware Traffic Offloading Scheme Using Regression Machine Learning for User-Centric Large-Scale Internet of Things. *Manogaran, G.*, +, *JIoT March 1, 2021 3360-3368*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*
- A Scalable and Energy-Efficient Anomaly Detection Scheme in Wireless SDN-Based mMTC Networks for IoT. *Wang, B.*, +, *JIoT Feb. 1, 2021 1388-1405*
- Achieving Low-Latency Human-to-Machine (H2M) Applications: An Understanding of H2M Traffic for AI-Facilitated Bandwidth Allocation. *Ruan, L.*, +, *JIoT Jan. 1, 2021 626-635*
- Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. *Zhuang, Z.*, +, *JIoT Feb. 15, 2021 2208-2225*
- Adaptive Packet Padding Approach for Smart Home Networks: A Tradeoff Between Privacy and Performance. *Pinheiro, A.J.*, +, *JIoT March 1, 2021 3930-3938*
- ADEPT: Detection and Identification of Correlated Attack Stages in IoT Networks. *Sudheera, K.L.K.*, +, *JIoT April 15, 2021 6591-6607*
- An Efficient and Lightweight Predictive Channel Assignment Scheme for Multiband B5G-Enabled Massive IoT: A Deep Learning Approach. *Sakib, S.*, +, *JIoT April 1, 2021 5285-5297*
- An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. *Mahyoub, M.*, +, *JIoT May 1, 2021 7152-7169*
- Analysis and Implementation for Traffic-Aware Channel Assignment and Contention Scheme in LoRa-Based IoT Networks. *Shen, L.*, +, *JIoT July 15, 2021 11368-11383*
- Aol-Aware Control and Communication Co-Design for Industrial IoT Systems. *Wang, X.*, +, *JIoT May 15, 2021 8464-8473*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Backhaul-Capacity-Aware Interference Mitigation Framework in 6G Cellular Internet of Things. *Zhang, Q.*, +, *JIoT June 15, 2021 10071-10084*
- Base Station Wake-Up Strategy in Cellular Networks With Hybrid Energy Supplies for 6G Networks in an IoT Environment. *Wang, H.*, +, *JIoT April 1, 2021 5230-5239*
- Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D.*, +, *JIoT May 15, 2021 8603-8615*
- Context-Rich Privacy Leakage Analysis Through Inferring Apps in Smart Home IoT. *Luo, Y.*, +, *JIoT Feb. 15, 2021 2736-2750*
- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- CorrAUC: A Malicious Bot-IoT Traffic Detection Method in IoT Network Using Machine-Learning Techniques. *Shafiq, M.*, +, *JIoT March 1, 2021 3242-3254*
- Cost-Aware Feature Selection for IoT Device Classification. *Chakraborty, B.*, +, *JIoT July 15, 2021 11052-11064*
- Data-Driven Trajectory Quality Improvement for Promoting Intelligent Vessel Traffic Services in 6G-Enabled Maritime IoT Systems. *Liu, R.W.*, +, *JIoT April 1, 2021 5374-5385*
- Delay-Aware Caching in Internet-of-Vehicles Networks. *Huang, X.*, +, *JIoT July 1, 2021 10911-10921*
- Design and Performance Evaluation of a Hysteresis-Free On-the-Fly Scheduling Function for 6TiSCH. *Wang, H.*, +, *JIoT July 1, 2021 10499-10508*
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- DM-COM: Combining Device-to-Device and MU-MIMO Communications for Cellular Networks. *Sangdeh, P.K.*, +, *JIoT Sept. 1, 2021 13516-13527*
- Drone-Cell Trajectory Planning and Resource Allocation for Highly Mobile Networks: A Hierarchical DRL Approach. *Shi, W.*, +, *JIoT June 15, 2021 9800-9813*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Dynamic Preamble-Resource Partitioning for Critical MTC in Massive MIMO Systems. *Ding, J.*, +, *JIoT Oct. 15, 2021 15361-15371*
- Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y.*, +, *JIoT March 1, 2021 3554-3566*
- Effective Energy Efficiency of Ultrareliable Low-Latency Communication. *Shehab, M.*, +, *JIoT July 15, 2021 11135-11149*
- Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. *Nguyen, V.*, +, *JIoT March 1, 2021 3394-3409*
- Energy-Efficient Deep Reinforced Traffic Grooming in Elastic Optical Networks for Cloud-Fog Computing. *Zhu, R.*, +, *JIoT Aug. 1, 2021 12410-12421*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*
- Energy-Efficient Multiaccess Edge Computing for Terrestrial-Satellite Internet of Things. *Song, Z.*, +, *JIoT Sept. 15, 2021 14202-14218*
- EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S.*, +, *JIoT July 15, 2021 11345-11356*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C.*, +, *JIoT May 1, 2021 7625-7637*
- HOTSPOT: A UAV-Assisted Dynamic Mobility-Aware Offloading for Mobile-Edge Computing in 3-D Space. *Liao, Z.*, +, *JIoT July 1, 2021 10940-10952*
- Hybrid Deep Learning for Botnet Attack Detection in the Internet-of-Things Networks. *Popoola, S.I.*, +, *JIoT March 15, 2021 4944-4956*
- IHSF: An Intelligent Solution for Improved Performance of Reliable and Time-Sensitive Flows in Hybrid SDN-Based FC IoT Systems. *Ibrar, M.*, +, *JIoT March 1, 2021 3130-3142*
- Improving Latency Analysis for Flexible Window-Based GCL Scheduling in TSN Networks by Integration of Consecutive Nodes Offsets. *Zhao, L.*, +, *JIoT April 1, 2021 5574-5584*
- Intelligent Offloading for NOMA-Assisted MEC via Dual Connectivity. *Li, C.*, +, *JIoT Feb. 15, 2021 2802-2813*
- Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks. *Xiao, H.*, +, *JIoT Sept. 15, 2021 13926-13938*
- Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F.*, +, *JIoT Sept. 15, 2021 14156-14170*
- Joint UAV Access and GEO Satellite Backhaul in IoRT Networks: Performance Analysis and Optimization. *Zhu, Y.*, +, *JIoT May 1, 2021 7126-7139*
- Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*
- MAC for Machine-Type Communications in Industrial IoT—Part I: Protocol Design and Analysis. *Gao, J.*, +, *JIoT June 15, 2021 9945-9957*
- MAC for Machine-Type Communications in Industrial IoT—Part II: Scheduling and Numerical Results. *Gao, J.*, +, *JIoT June 15, 2021 9958-9969*
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*
- NB-IoT Random Access: Data-Driven Analysis and ML-Based Enhancements. *Caso, G.*, +, *JIoT July 15, 2021 11384-11399*
- On Manually Reverse Engineering Communication Protocols of Linux-Based IoT Systems. *Liu, K.*, +, *JIoT April 15, 2021 6815-6827*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. *Liu, M.*, +, *JIoT June 1, 2021 8990-9004*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETS. *Ma, C.*, +, *JIoT June 1, 2021 9344-9358*

- Prioritized Multistream Traffic in Uplink IoT Networks: Spatially Interacting Vacation Queues. *Emara, M.*, +, *JIoT Feb. 1, 2021 1477-1491*
- Priority-Aware Reinforcement-Learning-Based Integrated Design of Networking and Control for Industrial Internet of Things. *Xu, H.*, +, *JIoT March 15, 2021 4668-4680*
- Promoting Energy Efficiency and Proportional Fairness in Densely Deployed Backscatter-Aided Networks. *Li, L.*, +, *JIoT July 1, 2021 10518-10530*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*
- RAN Slicing for Massive IoT and Bursty URLLC Service Multiplexing: Analysis and Optimization. *Yang, P.*, +, *JIoT Sept. 15, 2021 14258-14275*
- Resource-Hopping-Based Grant-Free Multiple Access for 6G-Enabled Massive IoT Networks. *Jang, H.S.*, +, *JIoT Oct. 15, 2021 15349-15360*
- Resource-Optimized Recursive Access Class Barring for Bursty Traffic in Cellular IoT Networks. *Jang, H.S.*, +, *JIoT July 15, 2021 11640-11654*
- Safeguarding the IoT From Malware Epidemics: A Percolation Theory Approach. *Zhaidhan, A.*, +, *JIoT April 1, 2021 6039-6052*
- Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*
- SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A.*, +, *JIoT March 1, 2021 3057-3065*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J.*, +, *JIoT June 1, 2021 9407-9421*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Sniffing Only Control Packets: A Lightweight Client-Side WiFi Traffic Characterization Solution. *Song, L.*, +, *JIoT April 15, 2021 6536-6548*
- Stochastic Congestion Game for Load Balancing in Mobile-Edge Computing. *Zhang, F.*, +, *JIoT Jan. 15, 2021 778-790*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. *Abouzaid, L.*, +, *JIoT March 1, 2021 3743-3757*
- Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. *Zhan, W.*, +, *JIoT Sept. 1, 2021 13237-13250*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y.*, +, *JIoT Dec. 15, 2021 17762-17777*
- UAV-Aided Cellular Operation by User Offloading. *Ali, M.A.*, +, *JIoT June 15, 2021 9855-9864*
- Telecommunications**
- CNN-Based Malware Variants Detection Method for Internet of Things. *Li, Q.*, +, *JIoT Dec. 1, 2021 16946-16962*
- Telecontrol**
- WindTrack: Leveraging Sound and Wind to Track Angular Position of Users on Commercial Internet-Connected Fans. *Jun, H.*, +, *JIoT July 15, 2021 11690-11704*
- Telemedicine**
- A Privacy-Aware and Traceable Fine-Grained Data Delivery System in Cloud-Assisted Healthcare IIoT. *Sun, J.*, +, *JIoT June 15, 2021 10034-10046*
- Anonymous Group-Oriented Time-Bound Key Agreement for Internet of Medical Things in Telemonitoring Using Chaotic Maps. *Chen, M.*, +, *JIoT Sept. 15, 2021 13939-13949*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*
- Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y.*, +, *JIoT Nov. 1, 2021 15965-15976*
- Telemetry**
- In.IoT—A New Middleware for Internet of Things. *da Cruz, M.A.A.*, +, *JIoT May 15, 2021 7902-7911*
- Temperature control**
- Optimal Strategy for Participation of Commercial HVAC Systems in Frequency Regulation. *Liu, H.*, +, *JIoT Dec. 1, 2021 17100-17110*
- Temperature distribution**
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- Toward Intelligent Multizone Thermal Control With Multiagent Deep Reinforcement Learning. *Li, J.*, +, *JIoT July 15, 2021 11150-11162*
- Temperature measurement**
- Adversarial Examples—Security Threats to COVID-19 Deep Learning Systems in Medical IoT Devices. *Rahman, A.*, +, *JIoT June 15, 2021 9603-9610*
- An Alternative Body Temperature Measurement Solution: Combination of a Highly Accurate Monitoring System and a Visualized Public Health Cloud Platform. *Jiang, J.*, +, *JIoT April 1, 2021 5778-5793*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- Wireless Wearable Sensor Paired With Machine Learning for the Quantification of Tissue Oxygenation. *Cascales, J.P.*, +, *JIoT Dec. 15, 2021 17557-17567*
- Temperature sensors**
- Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*
- Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*
- Temperature Forecasting for Stored Grain: A Deep Spatiotemporal Attention Approach. *Duan, S.*, +, *JIoT Dec. 1, 2021 17147-17160*
- Temporal logic**
- A Novel Spatial-Temporal Specification-Based Monitoring System for Smart Cities. *Ma, M.*, +, *JIoT Aug. 1, 2021 11793-11806*
- Tensors**
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C.*, +, *JIoT Dec. 1, 2021 16911-16920*
- Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*
- Testing**
- A Smartphone App-Based Application Enabling Remote Assessments of Standing Balance During the COVID-19 Pandemic and Beyond. *Zhou, J.*, +, *JIoT Nov. 1, 2021 15818-15828*
- Thermal comfort**
- Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. *Zhang, W.*, +, *JIoT May 15, 2021 8021-8031*
- Thermometers**
- The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. *Castiglione, A.*, +, *JIoT Nov. 1, 2021 16072-16082*
- Three-dimensional displays**
- Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. *Wang, C.*, +, *JIoT Dec. 1, 2021 16911-16920*
- Attention-Based Multilevel Co-Occurrence Graph Convolutional LSTM for 3-D Action Recognition. *Xu, S.*, +, *JIoT Nov. 1, 2021 15990-16001*
- Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X.*, +, *JIoT Dec. 15, 2021 17802-17816*
- Throughput**
- Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W.*, +, *JIoT Nov. 15, 2021 16705-16717*
- Learning-Based Transmission Protocol Customization for VoD Streaming in Cybertwin-Enabled Next-Generation Core Networks. *Yan, S.*, +, *JIoT Nov. 15, 2021 16326-16336*
- MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J.*, +, *JIoT Dec. 15, 2021 17403-17416*
- Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X.*, +, *JIoT Dec. 15, 2021 17802-17816*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C.*, +, *JIoT Nov. 15, 2021 16207-16218*
- Secure IoT Communications Using HARQ-Based Beamforming for MISOSE Channels. *Yu, H.*, +, *JIoT Dec. 1, 2021 17211-17226*

Time division multiple access

Auction-Based Multichannel Cooperative Spectrum Sharing in Hybrid Satellite-Terrestrial IoT Networks. *Zhang, X.*, +, *JIoT April 15, 2021 7009-7023*

Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y.*, +, *JIoT Oct. 1, 2021 14920-14933*

Distributed TDMA for Mobile UWB Network Localization. *Cao, Y.*, +, *JIoT Sept. 1, 2021 13449-13464*

Full-Duplex UAV Relaying for Multiple User Pairs. *Li, B.*, +, *JIoT March 15, 2021 4657-4667*

Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*

Time division multiplexing

SCUBA: An In-Device Multiplexed Protocol for Sidelink Communication on Unlicensed Bands. *Rajendran, V.*, +, *JIoT Nov. 15, 2021 16637-16652*

Time factors

Optimizing the Response Time in SDN-Fog Environments for Time-Strict IoT Applications. *Herrera, J.L.*, +, *JIoT Dec. 1, 2021 17172-17185*

Time measurement

Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*

Time of arrival estimation

Toward Secure Localization in Randomly Deployed Wireless Networks. *Beko, M.*, +, *JIoT Dec. 15, 2021 17436-17448*

Time series

An Adversarial Examples Identification Method for Time Series in Internet-of-Things System. *Jiang, H.*, +, *JIoT June 15, 2021 9495-9510*

Cost-Effective Bad Synchronizer Data Detection Based on Unsupervised Time-Series Data Analytic. *Zhu, L.*, +, *JIoT Feb. 1, 2021 2027-2039*

Deep Anomaly Detection for Time-Series Data in Industrial IoT: A Communication-Efficient On-Device Federated Learning Approach. *Liu, Y.*, +, *JIoT April 15, 2021 6348-6358*

Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment. *Chhikara, P.*, +, *JIoT Oct. 15, 2021 15456-15467*

Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. *Zhang, M.*, +, *JIoT Sept. 1, 2021 13608-13623*

Probabilistic Modeling of Information Dynamics in Networked Cyber-Physical-Social Systems. *Wang, Y.*, *JIoT Oct. 1, 2021 14934-14947*

Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*

ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoT Applications. *Abdel-Basset, M.*, +, *JIoT March 15, 2021 4969-4979*

Time-domain analysis

Channel Measurements and Modeling for 400–600-MHz Bands in Urban and Suburban Scenarios. *Huang, J.*, +, *JIoT April 1, 2021 5531-5543*

sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q.*, +, *JIoT Dec. 1, 2021 16835-16844*

Time-frequency analysis

SenseMag: Enabling Low-Cost Traffic Monitoring Using Noninvasive Magnetic Sensing. *Wang, K.*, +, *JIoT Nov. 15, 2021 16666-16679*

Scalable and QoS-Aware Resource Allocation to Heterogeneous Traffic Flows in 5G. *Boujelben, Y.*, *JIoT Oct. 15, 2021 15568-15581*

Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N.*, +, *JIoT March 15, 2021 4711-4722*

sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. *Liu, Q.*, +, *JIoT Dec. 1, 2021 16835-16844*

Time-of-arrival estimation

A Closed-Form Localization Method Utilizing Pseudorange Measurements From Two Nonsynchronized Positioning Systems. *Zhao, S.*, +, *JIoT Jan. 15, 2021 1082-1094*

A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network. *Zhao, S.*, +, *JIoT June 1, 2021 9030-9044*

Efficient Preamble Detection and Time-of-Arrival Estimation for Single-Tone Frequency Hopping Random Access in NB-IoT. *Chougrani, H.*, +, *JIoT May 1, 2021 7437-7449*

Optimal Localization With Sequential Pseudorange Measurements for Moving Users in a Time-Division Broadcast Positioning System. *Zhao, S.*, +, *JIoT June 1, 2021 8883-8896*

Probabilistic Source Localization Based on Time-of-Arrival Measurements. *Salt, J.E.*, +, *JIoT April 1, 2021 5881-5892*

Three-Dimensional-Map-Based Trajectory Design in UAV-Aided Wireless Localization Systems. *Esrafilian, O.*, +, *JIoT June 15, 2021 9894-9904*

UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S.*, +, *JIoT June 1, 2021 9099-9108*

Time-varying channels

Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*

Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. *Tuong, V.D.*, +, *JIoT Sept. 1, 2021 13196-13208*

RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S.*, +, *JIoT Oct. 1, 2021 14860-14873*

Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L.*, +, *JIoT June 1, 2021 8854-8864*

Time-varying networks

Temporal Correlation and Long-Term Average Performance Analysis of Multiple UAV-Aided Networks. *Yang, L.*, +, *JIoT June 1, 2021 8854-8864*

Topology

Fault Diagnosis of Power IoT System Based on Improved Q-KPCA-RF Using Message Data. *Jiang, H.*, +, *JIoT June 1, 2021 9450-9459*

Joint Virtual Network Topology Design and Embedding for Cybertwin-Enabled 6G Core Networks. *Li, J.*, +, *JIoT Nov. 15, 2021 16313-16325*

Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. *Tang, Y.*, +, *JIoT Nov. 1, 2021 16023-16034*

TOPSIS

METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C.*, +, *JIoT Aug. 15, 2021 12705-12715*

Town and country planning

Object Tracking by the Least Spatiotemporal Searches. *Yu, Z.*, +, *JIoT Aug. 15, 2021 12934-12946*

The Study of Urban Residential's Public Space Activeness Using Space-Centric Approach. *Lau, B.P.L.*, +, *JIoT July 15, 2021 11503-11513*

Toward Oblivious Location-Based k -Nearest Neighbor Query in Smart Cities. *Guan, Y.*, +, *JIoT Sept. 15, 2021 14219-14231*

Tracking

MTrack: Tracking Multiperson Moving Trajectories and Vital Signs With Radio Signals. *Zhang, D.*, +, *JIoT March 1, 2021 3904-3914*

Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*

Traffic engineering computing

6G-Enabled Short-Term Forecasting for Large-Scale Traffic Flow in Massive IoT Based on Time-Aware Locality-Sensitive Hashing. *Wang, F.*, +, *JIoT April 1, 2021 5321-5331*

A Cluster-Based Multidimensional Approach for Detecting Attacks on Connected Vehicles. *D'Angelo, G.*, +, *JIoT Aug. 15, 2021 12518-12527*

A Low-Cost Two-Tier Fog Computing Testbed for Streaming IoT-Based Applications. *Nguyen, S.*, +, *JIoT April 15, 2021 6928-6939*

A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P.*, +, *JIoT March 15, 2021 4991-4999*

A Pedestrian Network Construction System Based on Crowdsourced Walking Trajectories. *Zhou, B.*, +, *JIoT May 1, 2021 7203-7213*

A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G.*, +, *JIoT Feb. 1, 2021 1971-1984*

AC4AV: A Flexible and Dynamic Access Control Framework for Connected and Autonomous Vehicles. *Zhang, Q.*, +, *JIoT Feb. 1, 2021 1946-1958*

- Adaptive Square Attack: Fooling Autonomous Cars With Adversarial Traffic Signs. *Li, Y., +, JIoT April 15, 2021 6337-6347*
- An Architecture for IoT-Enabled Smart Transportation Security System: A Geospatial Approach. *Zhang, J., +, JIoT April 15, 2021 6205-6213*
- An Intelligent Edge-Chain-Enabled Access Control Mechanism for IoV. *Liu, Y., +, JIoT Aug. 1, 2021 12231-12241*
- An IoT-Based Vehicle Accident Detection and Classification System Using Sensor Fusion. *Kumar, N., +, JIoT Jan. 15, 2021 869-880*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. *Ma, J., +, JIoT July 1, 2021 10873-10883*
- Building a Lane Merge Coordination for Connected Vehicles Using Deep Reinforcement Learning. *Nassef, O., +, JIoT Feb. 15, 2021 2540-2557*
- Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L., +, JIoT April 15, 2021 6469-6486*
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*
- Detecting and Identifying Optical Signal Attacks on Autonomous Driving Systems. *Zhang, J., +, JIoT Jan. 15, 2021 1140-1153*
- Development of a Smart Traffic Light Control System With Real-Time Monitoring. *De Oliveira, L.F.P., +, JIoT March 1, 2021 3384-3393*
- DR-TSP: A Data Repairing Framework for Time Synchronization Problems in ERI Data. *Xia, D., +, JIoT July 15, 2021 11666-11677*
- EcRD: Edge-Cloud Computing Framework for Smart Road Damage Detection and Warning. *Yuan, Y., +, JIoT Aug. 15, 2021 12734-12747*
- FlexSensing: A QoI and Latency-Aware Task Allocation Scheme for Vehicle-Based Visual Crowdsourcing via Deep Q-Network. *Zhu, C., +, JIoT May 1, 2021 7625-7637*
- FraudTrip: Taxi Fraudulent Trip Detection From Corresponding Trajectories. *Ding, Y., +, JIoT Aug. 15, 2021 12505-12517*
- Hierarchical Prediction Based on Network-Representation-Learning-Enhanced Clustering for Bike-Sharing System in Smart City. *Yang, J., +, JIoT April 15, 2021 6416-6424*
- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P., +, JIoT March 15, 2021 4830-4840*
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. *Pu, Z., +, JIoT Jan. 1, 2021 474-486*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C., +, JIoT June 1, 2021 9344-9358*
- PGRide: Privacy-Preserving Group Ridesharing Matching in Online Ride Hailing Services. *Yu, H., +, JIoT April 1, 2021 5722-5735*
- S-Nav: Safety-Aware IoT Navigation Tool for Avoiding COVID-19 Hotspots. *Misra, S., +, JIoT April 15, 2021 6975-6982*
- Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D., +, JIoT Feb. 15, 2021 2976-2991*
- Situation-Aware Left-Turning Connected and Automated Vehicle Operation at Signalized Intersections. *Khan, S.M., +, JIoT Aug. 15, 2021 13077-13094*
- SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C., +, JIoT July 1, 2021 10619-10630*
- Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*
- Targeted Attention Attack on Deep Learning Models in Road Sign Recognition. *Yang, X., +, JIoT March 15, 2021 4980-4990*
- Telematics-Based Traffic Law Enforcement and Network Management System for Connected Vehicles. *Alghuson, M.K., +, JIoT Aug. 1, 2021 12384-12397*
- Traffic information systems**
- A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. *Sun, G., +, JIoT Feb. 1, 2021 1971-1984*
- Training**
- Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. *Chu, L., +, JIoT Dec. 1, 2021 16787-16800*
- An Adaptive Neurofeedback Method for Attention Regulation Based on the Internet of Things. *Cai, H., +, JIoT Nov. 1, 2021 15829-15838*
- Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*
- Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things. *Jin, H., +, JIoT Nov. 1, 2021 15776-15784*
- Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. *Lim, W.Y.B., +, JIoT Dec. 1, 2021 16853-16862*
- FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*
- Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z., +, JIoT Dec. 1, 2021 17000-17013*
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. *Yu, C., +, JIoT Nov. 15, 2021 16207-16218*
- Training data**
- A DRL Agent for Jointly Optimizing Computation Offloading and Resource Allocation in MEC. *Chen, J., +, JIoT Dec. 15, 2021 17508-17524*
- Federated Learning With Unreliable Clients: Performance Analysis and Mechanism Design. *Ma, C., +, JIoT Dec. 15, 2021 17308-17319*
- Multimodal CSI-Based Human Activity Recognition Using GANs. *Wang, D., +, JIoT Dec. 15, 2021 17345-17355*
- Sparse Individual Low-Rank Component Representation for Face Recognition in the IoT-Based System. *Yang, S., +, JIoT Dec. 15, 2021 17320-17332*
- Trajectory**
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M., +, JIoT Dec. 15, 2021 17275-17289*
- Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G., +, JIoT Nov. 1, 2021 16165-16180*
- Trajectory control**
- Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. *Moon, J., +, JIoT Oct. 15, 2021 15441-15455*
- Energy Consumption Minimization in UAV-Assisted Mobile-Edge Computing Systems: Joint Resource Allocation and Trajectory Design. *Ji, J., +, JIoT May 15, 2021 8570-8584*
- Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. *Cao, X., +, JIoT March 15, 2021 4526-4539*
- Trajectory optimization**
- Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X., +, JIoT Dec. 15, 2021 17802-17816*
- Trajectory optimization (aerospace)**
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W., +, JIoT May 15, 2021 7833-7848*
- Trajectory planning**
- AoI-Energy-Aware UAV-Assisted Data Collection for IoT Networks: A Deep Reinforcement Learning Method. *Sun, M., +, JIoT Dec. 15, 2021 17275-17289*
- Transaction processing**
- Application-Oriented Block Generation for Consortium Blockchain-Based IoT Systems With Dynamic Device Management. *Zhang, A., +, JIoT May 15, 2021 7874-7888*
- Blockchain for Secure-GaS: Blockchain-Powered Secure Natural Gas IoT System With AI-Enabled Gas Prediction and Transaction in Smart City. *Xiao, W., +, JIoT April 15, 2021 6305-6312*
- Embedding Blockchain Technology Into IoT for Security: A Survey. *Xu, L.D., +, JIoT July 1, 2021 10452-10473*
- Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. *Xu, X., +, JIoT July 1, 2021 10596-10607*
- Privacy-Preserving Transactive Energy Management for IoT-Aided Smart Homes via Blockchain. *Yang, Q., +, JIoT July 15, 2021 11463-11475*
- RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C., +, JIoT March 15, 2021 4291-4304*

Transcoding

Soft Actor–Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*

Transient response

Noncontact Respiration Detection Leveraging Music and Broadcast Signals. *Xie, W., +, JIoT Feb. 15, 2021 2931-2942*

Transmitters

Enhancing PHY-Security of FD-Enabled NOMA Systems Using Jamming and User Selection: Performance Analysis and DNN Evaluation. *Shim, K., +, JIoT Dec. 15, 2021 17476-17494*

Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F., +, JIoT Dec. 15, 2021 17596-17610*

Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. *Chen, X., +, JIoT Nov. 1, 2021 15939-15952*

Transmitting antennas

A Millimeter Wave Dual-Lens Antenna for IoT-Based Smart Parking Radar System. *Cai, Z., +, JIoT Jan. 1, 2021 418-427*

Energy-Efficiency Power Allocation Design for UAV-Assisted Spatial NOMA. *Jia, M., +, JIoT Oct. 15, 2021 15205-15215*

MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J., +, JIoT Dec. 15, 2021 17403-17416*

Performance Analysis and Prediction for Mobile Internet-of-Things (IoT) Networks: A CNN Approach. *Xu, L., +, JIoT Sept. 1, 2021 13355-13366*

Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. *Huang, Z., +, JIoT April 15, 2021 6385-6392*

WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S., +, JIoT June 1, 2021 9099-9108*

Transport protocols

A Machine-Learning-Based Tool for Passive OS Fingerprinting With TCP Variance as a Novel Feature. *Hagos, D.H., +, JIoT March 1, 2021 3534-3553*

Edge Intelligence (EI)-Enabled HTTP Anomaly Detection Framework for the Internet of Things (IoT). *An, Y., +, JIoT March 1, 2021 3554-3566*

In.IoT—A New Middleware for Internet of Things. *da Cruz, M.A.A., +, JIoT May 15, 2021 7902-7911*

Multipath TCP Meets Transfer Learning: A Novel Edge-Based Learning for Industrial IoT. *Pokhrel, S.R., +, JIoT July 1, 2021 10299-10307*

Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. *Yang, Y., +, JIoT Sept. 15, 2021 14276-14286*

SDN-Enabled Adaptive and Reliable Communication in IoT-Fog Environment Using Machine Learning and Multiobjective Optimization. *Akbar, A., +, JIoT March 1, 2021 3057-3065*

Transportation

Alarm Collector in Smart Train Based on Ethereum Blockchain Events-Log. *Figuerola-Lorenzo, S., +, JIoT Sept. 1, 2021 13306-13315*

Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y., +, JIoT March 15, 2021 4250-4274*

Outage Probability Performance Analysis and Prediction for Mobile IoV Networks Based on ICS-BP Neural Network. *Xu, L., +, JIoT March 1, 2021 3524-3533*

Stochastic Roadside Unit Location Optimization for Information Propagation in the Internet of Vehicles. *Liang, Y., +, JIoT Sept. 1, 2021 13316-13327*

Traveling salesman problems

Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H., +, JIoT Feb. 15, 2021 2379-2394*

Multi-UAV-Enabled Mobile-Edge Computing for Time-Constrained IoT Applications. *Zhan, C., +, JIoT Oct. 15, 2021 15553-15567*

Tree searching

Joint Optimization of Cooperative Edge Caching and Radio Resource Allocation in 5G-Enabled Massive IoT Networks. *Zhang, F., +, JIoT Sept. 15, 2021 14156-14170*

User-Centric Computation Offloading for Edge Computing. *Deng, X., +, JIoT Aug. 15, 2021 12559-12568*

Trees (mathematics)

A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. *Qi, H., +, JIoT Feb. 15, 2021 2124-2134*

A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks. *Sha, C., +, JIoT Feb. 15, 2021 2649-2669*

A Prim–Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. *Freschi, V., +, JIoT July 15, 2021 11320-11328*

A Tree-Structured LoRa Network for Energy Efficiency. *Tehrani, Y.H., +, JIoT April 1, 2021 6002-6011*

Blockchain-Based Federated Learning for Device Failure Detection in Industrial IoT. *Zhang, W., +, JIoT April 1, 2021 5926-5937*

E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI. *Yang, L., +, JIoT July 15, 2021 11290-11304*

EWPS: Emergency Data Communication in the Internet of Medical Things. *Gopikrishnan, S., +, JIoT July 15, 2021 11345-11356*

NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks. *Choudhury, N., +, JIoT Jan. 1, 2021 168-178*

OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H., +, JIoT March 15, 2021 4329-4338*

PLGAKD: A PUF-Based Lightweight Group Authentication and Key Distribution Protocol. *Yildiz, H., +, JIoT April 1, 2021 5682-5696*

Trigeneration

A Blockchain-Enabled Ecosystem for Distributed Electricity Trading in Smart City. *Guo, J., +, JIoT Feb. 1, 2021 2040-2050*

Trolleys

MUHAFIZ: IoT-Based Track Recording Vehicle for the Damage Analysis of the Railway Track. *Shah, A.A., +, JIoT June 1, 2021 9397-9406*

Trusted computing

A Provenance-Aware Distributed Trust Model for Resilient Unmanned Aerial Vehicle Networks. *Ge, C., +, JIoT Aug. 15, 2021 12481-12489*

A Secure Integrated Framework for Fog-Assisted Internet-of-Things Systems. *Junejo, A.K., +, JIoT April 15, 2021 6840-6852*

AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C., +, JIoT March 1, 2021 3157-3169*

Enabling Proxy-Free Privacy-Preserving and Federated Crowdsourcing by Using Blockchain. *Zhang, C., +, JIoT April 15, 2021 6624-6636*

FTM-IoMT: Fuzzy-Based Trust Management for Preventing Sybil Attacks in Internet of Medical Things. *Almogren, A., +, JIoT March 15, 2021 4485-4497*

Intelligent Trust-Based Public-Key Management for IoT by Linking Edge Devices in a Fog Architecture. *Haghighi, M.S., +, JIoT Aug. 15, 2021 12716-12723*

On Designing Context-Aware Trust Model and Service Delegation for Social Internet of Things. *Wei, L., +, JIoT March 15, 2021 4775-4787*

Preserving Location Privacy for Outsourced Most-Frequent Item Query in Mobile Crowdsensing. *Zhang, S., +, JIoT June 1, 2021 9139-9150*

Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. *Altaf, A., +, JIoT May 1, 2021 7497-7509*

Secure Ride-Sharing Services Based on a Consortium Blockchain. *Wang, D., +, JIoT Feb. 15, 2021 2976-2991*

SRSP: A Secure and Reliable Smart Parking Scheme With Dual Privacy Preservation. *Lai, C., +, JIoT July 1, 2021 10619-10630*

Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J., +, JIoT May 15, 2021 7925-7937*

Toward Trusted and Secure Communication Among Multiple Internal Modules in CAV. *Zhong, H., +, JIoT Dec. 15, 2021 17734-17746*

Trust Management in Social Internet of Things: Architectures, Recent Advancements, and Future Challenges. *Khan, W.Z., +, JIoT May 15, 2021 7768-7788*

Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services. *Qolomany, B., +, JIoT Feb. 15, 2021 2943-2958*

TT-SVD: An Efficient Sparse Decision-Making Model With Two-Way Trust Recommendation in the AI-Enabled IoT Systems. *Xu, G., +, JIoT June 15, 2021 9559-9567*

Who is Charging My Phone? Identifying Wireless Chargers via Fingerprinting. *Zhang, J.*, +, *JIoT Feb. 15, 2021 2992-2999*

Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. *Liu, Y.*, +, *JIoT Feb. 15, 2021 2627-2634*

Tunnels

Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malar-ski, K.M.*, +, *JIoT April 15, 2021 6746-6756*

Turbo codes

Rateless TLRCM for IoT Uplink Transmission. *Rao, W.*, +, *JIoT July 1, 2021 10608-10618*

Two dimensional displays

Applying Cross-Modality Data Processing for Infarction Learning in Medical Internet of Things. *Xu, C.*, +, *JIoT Dec. 1, 2021 16902-16910*

U

Ubiquitous computing

A Social-Relationships-Based Service Recommendation System for SIoT Devices. *Khelloufi, A.*, +, *JIoT Feb. 1, 2021 1859-1870*

A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. *Chang, Z.*, +, *JIoT Sept. 15, 2021 13849-13875*

Cost-Effective Active Sparse Urban Sensing: Adversarial Autoencoder Approach. *Zhu, K.*, +, *JIoT Aug. 1, 2021 12064-12078*

Empowering Self-Organized Feature Maps for AI-Enabled Modeling of Fake Task Submissions to Mobile Crowdsensing Platforms. *Zhang, Y.*, +, *JIoT Feb. 1, 2021 1334-1346*

FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices. *Wang, Y.*, +, *JIoT Aug. 1, 2021 12455-12466*

Heuristic Edge Server Placement in Industrial Internet of Things and Cellular Networks. *Kasi, S.K.*, +, *JIoT July 1, 2021 10308-10317*

Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*

Pedestrian Dead Reckoning Based on Walking Pattern Recognition and Online Magnetic Fingerprint Trajectory Calibration. *Wang, Q.*, +, *JIoT Feb. 1, 2021 2011-2026*

Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*

Special Issue on "Toward Intelligent Internet of Medical Things and its COVID-19 Applications and Beyond". *Hu, X.*, +, *JIoT Nov. 1, 2021 15649-15651*

Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*

UHF antennas

Directional Multiport Ambient RF Energy-Harvesting System for the Internet of Things. *Shen, S.*, +, *JIoT April 1, 2021 5850-5865*

Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S.*, +, *JIoT Sept. 1, 2021 13763-13773*

Printed Chipless Antenna as Flexible Temperature Sensor. *Bhattacharjee, M.*, +, *JIoT March 15, 2021 5101-5110*

Setup-Independent UHF RFID Sensing Technique Using Multidimensional Differential Measurement. *Zhang, X.*, +, *JIoT July 1, 2021 10509-10517*

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

UHF radio propagation

Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K.*, +, *JIoT April 15, 2021 6565-6577*

Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malar-ski, K.M.*, +, *JIoT April 15, 2021 6746-6756*

UHF resonators

Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V.*, +, *JIoT March 15, 2021 5009-5022*

Ultra reliable low latency communication

Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S.*, +, *JIoT Oct. 1, 2021 14431-14434*

Nonorthogonal HARQ for URLLC: Design and Analysis. *Nadeem, F.*, +, *JIoT Dec. 15, 2021 17596-17610*

Ultra wideband antennas

Shared-Aperture Slot-Based Sub-6-GHz and mm-Wave IoT Antenna for 5G Applications. *Hussain, R.*, *JIoT July 1, 2021 10807-10814*

Ultra wideband communication

Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S.*, +, *JIoT Oct. 15, 2021 15628-15638*

Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M.*, +, *JIoT Jan. 1, 2021 179-186*

People Counting Using IR-UWB Radar Sensor in a Wide Area. *Choi, J.*, +, *JIoT April 1, 2021 5806-5821*

Tightly Coupled Integration of INS and UWB Using Fixed-Lag Extended UFIR Smoothing for Quadrotor Localization. *Xu, Y.*, +, *JIoT Feb. 1, 2021 1716-1727*

Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P.*, +, *JIoT May 15, 2021 7745-7767*

Ultra wideband radar

A Transfer Learning Approach for Compressed Sensing in 6G-IoT. *Liang, J.*, +, *JIoT Oct. 15, 2021 15276-15283*

People Counting Using IR-UWB Radar Sensor in a Wide Area. *Choi, J.*, +, *JIoT April 1, 2021 5806-5821*

Ultra-dense networks

A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q.*, +, *JIoT Dec. 1, 2021 17014-17028*

Ultrasonic imaging

Smart Health of Ultrasound Telemedicine Based on Deeply Represented Semantic Segmentation. *Shen, Y.*, +, *JIoT Dec. 1, 2021 16770-16778*

Uncertainty

Convolutional Network Embedding of Text-Enhanced Representation for Knowledge Graph Completion. *Zhao, F.*, +, *JIoT Dec. 1, 2021 16758-16769*

Fault-Tolerant Mechanism for Edge-Based IoT Networks With Demand Uncertainty. *Samanta, A.*, +, *JIoT Dec. 1, 2021 16963-16971*

Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*

Underground communication

Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K.*, +, *JIoT April 15, 2021 6565-6577*

Understanding Sub-GHz Signal Behavior in Deep-Indoor Scenarios. *Malar-ski, K.M.*, +, *JIoT April 15, 2021 6746-6756*

Underwater acoustic communication

A Cooperative-Control-Based Underwater Target Escorting Mechanism With Multiple Autonomous Underwater Vehicles for Underwater Internet of Things. *Zhang, J.*, +, *JIoT March 15, 2021 4403-4416*

A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks. *Su, Y.*, +, *JIoT March 1, 2021 3653-3664*

Acoustical Observation With Multiple Wave Gliders for Internet of Underwater Things. *Lan, H.*, +, *JIoT Feb. 15, 2021 2814-2825*

An Adaptive-Location-Based Routing Protocol for 3-D Underwater Acoustic Sensor Networks. *Wang, Q.*, +, *JIoT April 15, 2021 6853-6864*

Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. *Zhou, Y.*, +, *JIoT May 15, 2021 8173-8190*

AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z.*, +, *JIoT Oct. 1, 2021 14559-14571*

Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*

Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. *Xing, G.*, +, *JIoT June 1, 2021 9005-9013*

Localization Algorithm for Underwater Sensor Network: A Review. *Luo, J.*, +, *JIoT Sept. 1, 2021 13126-13144*

Massive MIMO for Underwater Industrial Internet of Things Networks. *Lee, B.M.*, *JIoT Oct. 15, 2021 15542-15552*

Medium Access Control Under Space-Time Coupling in Underwater Acoustic Networks. *Chen, W.*, +, *JIoT Aug. 1, 2021 12398-12409*

- Optimal Cooperative Relaying and Power Control for IoUT Networks With Reinforcement Learning. *Su, Y.*, +, *JIoT Jan. 15, 2021 791-801*
- Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. *Liu, M.*, +, *JIoT June 1, 2021 8990-9004*
- Strengthening the Achilles' Heel: An AUV-Aided Message Ferry Approach Against Dissemination Vulnerability in UASNs. *Liu, L.*, +, *JIoT Oct. 1, 2021 14948-14958*
- To Hide Private Position Information in Localization for Internet of Underwater Things. *Yan, J.*, +, *JIoT Sept. 15, 2021 14338-14354*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- Underwater sound**
- Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*
- Underwater vehicles**
- AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *Fang, Z.*, +, *JIoT Oct. 1, 2021 14559-14571*
- Unloading**
- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*
- Unmanned aerial vehicles**
- A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*
- Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X.*, +, *JIoT Dec. 15, 2021 17802-17816*
- Robust Resource Allocation Algorithm for Energy-Harvesting-Based D2D Communication Underlaying UAV-Assisted Networks. *Xu, Y.*, +, *JIoT Dec. 1, 2021 17161-17171*
- Unmanned surface vehicles**
- AoI-Aware Co-Design of Cooperative Transmission and State Estimation for Marine IoT Systems. *Lyu, L.*, +, *JIoT May 15, 2021 7889-7901*
- Unsolicited e-mail**
- Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. *Guo, Z.*, +, *JIoT June 15, 2021 9549-9558*
- Unsupervised learning**
- An Adversarial Examples Identification Method for Time Series in Internet-of-Things System. *Jiang, H.*, +, *JIoT June 15, 2021 9495-9510*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H.*, +, *JIoT Oct. 1, 2021 14787-14796*
- HUNA: A Method of Hierarchical Unsupervised Network Alignment for IoT. *Zhu, D.*, +, *JIoT March 1, 2021 3201-3210*
- Machine Learning Framework for Sensing and Modeling Interference in IoT Frequency Bands. *Homssi, B.A.*, +, *JIoT March 15, 2021 4461-4471*
- Weighted Adaptive Partition for Heterogeneous IoT Data Stream. *Zhang, M.*, +, *JIoT Oct. 15, 2021 15240-15248*
- Uplink**
- A Decoupled Access Scheme With Reinforcement Learning Power Control for Cellular-Enabled UAVs. *Shi, Y.*, +, *JIoT Dec. 15, 2021 17261-17274*
- MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. *Jiao, J.*, +, *JIoT Dec. 15, 2021 17403-17416*
- Performance Study of Cybertwin-Assisted Random Access NOMA. *Chen, Z.*, +, *JIoT Nov. 15, 2021 16279-16289*
- Urban areas**
- A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q.*, +, *JIoT Dec. 1, 2021 17014-17028*
- Prelarge-Based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. *Yun, U.*, +, *JIoT Dec. 15, 2021 17333-17344*
- Toward Combatting COVID-19: A Risk Assessment System. *Wang, Q.*, +, *JIoT Nov. 1, 2021 15953-15964*
- User experience**
- MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices. *Jin, R.*, +, *JIoT July 1, 2021 10755-10765*
- User interfaces**
- AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K.*, +, *JIoT March 15, 2021 5023-5030*
- Utility theory**
- A Contract-Based Insurance Incentive Mechanism Boosted by Wearable Technology. *Chen, Y.*, +, *JIoT April 1, 2021 6089-6100*
- Utility-Theory-Based Optimal Resource Consumption for Inference in IoT Systems. *Geng, B.*, +, *JIoT Aug. 1, 2021 12279-12288*
- V**
- Valves**
- Deep Learning Methods in Internet of Medical Things for Valvular Heart Disease Screening System. *Su, Y.*, +, *JIoT Dec. 1, 2021 16921-16932*
- Variable structure systems**
- A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. *Ma, Y.*, +, *JIoT April 1, 2021 5822-5838*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- Variational techniques**
- Distributed Variational Bayes-Based In-Network Security for the Internet of Things. *He, W.*, +, *JIoT April 15, 2021 6293-6304*
- Vectors**
- Identification of Active Attacks in Internet of Things: Joint Model- and Data-Driven Automatic Modulation Classification Approach. *Huang, S.*, +, *JIoT Feb. 1, 2021 2051-2065*
- Soil-Moisture-Sensor-Based Automated Soil Water Content Cycle Classification With a Hybrid Symbolic Aggregate Approximation Algorithm. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14003-14012*
- Vegetation**
- Mobile Semantic-Aware Trajectory for Personalized Location Privacy Preservation. *Qiu, G.*, +, *JIoT Nov. 1, 2021 16165-16180*
- Vegetation mapping**
- Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A.*, +, *JIoT Dec. 15, 2021 17429-17435*
- Vehicle dynamics**
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y.*, +, *JIoT Nov. 15, 2021 16219-16230*
- Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. *Xia, X.*, +, *JIoT Oct. 1, 2021 14845-14859*
- Design, Modeling, Control, and Experiments for a Fish-Robot-Based IoT Platform to Enable Smart Ocean. *Wang, C.*, +, *JIoT June 1, 2021 9317-9329*
- Toward Privacy-Preserving Cybertwin-Based Spatiotemporal Keyword Query for ITS in 6G Era. *Guan, Y.*, +, *JIoT Nov. 15, 2021 16243-16255*
- Vehicle routing**
- Efficient Task Assignment for Multiple Vehicles With Partially Unreachable Target Locations. *Bai, X.*, +, *JIoT March 1, 2021 3730-3742*
- Vehicle-to-everything**
- Centralized Resource Allocation and Distributed Power Control for NOMA-Integrated NR V2X. *Zhang, F.*, +, *JIoT Nov. 15, 2021 16522-16534*
- Vehicle-to-grid**
- An Energy-Efficient Authentication Scheme Based on Chebyshev Chaotic Map for Smart Grid Environments. *Zhang, L.*, +, *JIoT Dec. 1, 2021 17120-17130*
- PADP: Efficient Privacy-Preserving Data Aggregation and Dynamic Pricing for Vehicle-to-Grid Networks. *Chen, L.*, +, *JIoT May 15, 2021 7863-7873*
- Vehicle-to-infrastructure**
- A V2X-Integrated Positioning Methodology in Ultradense Networks. *Liu, Q.*, +, *JIoT Dec. 1, 2021 17014-17028*
- Vehicles**
- Computing Systems for Autonomous Driving: State of the Art and Challenges. *Liu, L.*, +, *JIoT April 15, 2021 6469-6486*
- Stability Analysis of Vehicle Platooning With Limited Communication Range and Random Packet Losses. *Zhao, C.*, +, *JIoT Jan. 1, 2021 262-277*

Vehicular ad hoc networks

- A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. *Cui, L., +, JIoT Feb. 15, 2021 2395-2408*
- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks. *Cai, Y., +, JIoT Jan. 1, 2021 647-656*
- A Cost-Efficient Framework for Crowdsourced Data Collection in Vehicular Networks. *Yin, B., +, JIoT Sept. 1, 2021 13567-13581*
- A Dynamic Evolution Mechanism for IoV Community in an Urban Scene. *Cheng, J., +, JIoT May 1, 2021 7521-7530*
- A Hybrid-Equivalent Surface-Edge Current Model for Simulation of V2X Communication Antennas With Arbitrarily Shaped Contour. *Zhao, H., +, JIoT May 15, 2021 8064-8077*
- A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. *Sharma, P., +, JIoT March 15, 2021 4991-4999*
- A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. *Lin, N., +, JIoT Sept. 15, 2021 14080-14093*
- A Novel Heuristic Data Routing for Urban Vehicular Ad Hoc Networks. *Hawbani, A., +, JIoT June 1, 2021 8976-8989*
- A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs. *Wang, C., +, JIoT Sept. 15, 2021 14248-14257*
- A Privacy-Preserving and Scalable Authentication Protocol for the Internet of Vehicles. *Aman, M.N., +, JIoT Jan. 15, 2021 1123-1139*
- A Proof-of-Quality-Factor (PoQF)-Based Blockchain and Edge Computing for Vehicular Message Dissemination. *Ayaz, F., +, JIoT Feb. 15, 2021 2468-2482*
- AIT: An AI-Enabled Trust Management System for Vehicular Networks Using Blockchain Technology. *Zhang, C., +, JIoT March 1, 2021 3157-3169*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. *Ma, J., +, JIoT July 1, 2021 10873-10883*
- Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. *Mollah, M.B., +, JIoT March 15, 2021 4157-4185*
- BTMPP: Balancing Trust Management and Privacy Preservation for Emergency Message Dissemination in Vehicular Networks. *Liu, Z., +, JIoT April 1, 2021 5386-5407*
- Context-and-Social-Aware Online Beam Selection for mmWave Vehicular Communications. *Li, D., +, JIoT May 15, 2021 8603-8615*
- Cooperative Caching Strategy With Content Request Prediction in Internet of Vehicles. *Wang, R., +, JIoT June 1, 2021 8964-8975*
- Cooperative Location Privacy in Vehicular Networks: Why Simple Mix Zones are Not Enough. *Khodaei, M., +, JIoT May 15, 2021 7985-8004*
- Deep-Learning-Based Intelligent Intervehicle Distance Control for 6G-Enabled Cooperative Autonomous Driving. *Chen, X., +, JIoT Oct. 15, 2021 15180-15190*
- Delay-Optimized Resource Allocation in Fog-Based Vehicular Networks. *Zhang, K., +, JIoT Feb. 1, 2021 1347-1357*
- Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X., +, JIoT Oct. 1, 2021 14501-14513*
- Dynamic Resource Allocation Model for Distribution Operations Using SDN. *Goudarzi, S., +, JIoT Jan. 15, 2021 976-988*
- Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. *Grover, H., +, JIoT Oct. 1, 2021 14787-14796*
- Efficient and Secure Certificateless Aggregate Signature-Based Authentication Scheme for Vehicular Ad Hoc Networks. *Thumbur, G., +, JIoT Feb. 1, 2021 1908-1920*
- Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M., +, JIoT Jan. 1, 2021 179-186*
- FMAC: A Self-Adaptive MAC Protocol for Flocking of Flying Ad Hoc Network. *Huang, X., +, JIoT Jan. 1, 2021 610-625*
- H-V2X Mode 4 Adaptive Semipersistent Scheduling Control for Cooperative Internet of Vehicles. *Heo, S., +, JIoT July 1, 2021 10678-10692*
- Is 5G Handover Secure and Private? A Survey. *Zhao, D., +, JIoT Aug. 15, 2021 12855-12879*
- Joint 3-D Trajectory and Resource Optimization in Multi-UAV-Enabled IoT Networks With Wireless Power Transfer. *Luo, W., +, JIoT May 15, 2021 7833-7848*

- Joint Clustering and Blockchain for Real-Time Information Security Transmission at the Crossroads in C-V2X Networks. *Xiao, H., +, JIoT Sept. 15, 2021 13926-13938*
- Leveraging Multiagent Learning for Automated Vehicles Scheduling at Non-signalized Intersections. *Xu, Y., +, JIoT July 15, 2021 11427-11439*
- Machine-Learning-Based Efficient and Secure RSU Placement Mechanism for Software-Defined-IoV. *Anbalagan, S., +, JIoT Sept. 15, 2021 13950-13957*
- Multiagent Deep Reinforcement Learning for Vehicular Computation Offloading in IoT. *Zhu, X., +, JIoT June 15, 2021 9763-9773*
- Multihop V2U Path Availability Analysis in UAV-Assisted Vehicular Networks. *Khabbaz, M., +, JIoT July 1, 2021 10745-10754*
- Neighbor Discovery for ProSe and V2X Communications. *Nasraoui, L., +, JIoT May 1, 2021 7241-7251*
- On Mobility-Aware and Channel-Randomness-Adaptive Optimal Neighbor Discovery for Vehicular Networks. *Zhu, L., +, JIoT April 15, 2021 6828-6839*
- On Secure Degrees of Freedom of the MIMO Interference Channel With Local Output Feedback. *Zhang, T., +, JIoT Oct. 15, 2021 15334-15348*
- Parking Edge Computing: Parked-Vehicle-Assisted Task Offloading for Urban VANETs. *Ma, C., +, JIoT June 1, 2021 9344-9358*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- SURFER: A Secure SDN-Based Routing Protocol for Internet of Vehicles. *Mershad, K., JIoT May 1, 2021 7407-7422*
- Toward Achieving Fine-Grained Access Control of Data in Connected and Autonomous Vehicles. *Cui, J., +, JIoT May 15, 2021 7925-7937*
- Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *Makarfi, A.U., +, JIoT Jan. 1, 2021 443-457*

Velocity control

- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K., +, JIoT June 15, 2021 9787-9799*

Velocity measurement

- SpeedNet: Indoor Speed Estimation With Radio Signals. *Chen, Y., +, JIoT Feb. 15, 2021 2762-2774*

Ventilation

- Context-Aware Monitoring and Control of Ventilation Rate in Indoor Environments Using Internet of Things. *Rastogi, K., +, JIoT June 1, 2021 9257-9267*
- Intelligent Agents to Improve Thermal Satisfaction by Controlling Personal Comfort Systems Under Different Levels of Automation. *Aryal, A., +, JIoT April 15, 2021 7089-7100*

Vibrations

- Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V., +, JIoT March 15, 2021 5009-5022*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X., +, JIoT Feb. 1, 2021 1728-1739*
- Weak Radio-Frequency Signal Detection Based on Piezo-Opto-Electro-Mechanical System: Architecture Design and Sensitivity Prediction. *Wu, S., +, JIoT June 15, 2021 10085-10102*

Video coding

- Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J., +, JIoT Nov. 15, 2021 16498-16509*
- On the Fundamental Tradeoffs Between Video Freshness and Video Quality in Real-Time Applications. *Ma, J., +, JIoT Feb. 1, 2021 1492-1503*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- Time-Aggregation-Based Lossless Video Encoding for Neuromorphic Vision Sensor Data. *Khan, N., +, JIoT Jan. 1, 2021 596-609*

Video signal processing

- A Deep-Learning-Based Smart Healthcare System for Patient's Discomfort Detection at the Edge of Internet of Things. *Ahmed, I., +, JIoT July 1, 2021 10318-10326*
- CLONE: Collaborative Learning on the Edges. *Lu, S., +, JIoT July 1, 2021 10222-10236*

- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M.*, +, *JIoT Oct. 15, 2021 15059-15069*
- FusionTalk: An IoT-Based Reconfigurable Object Identification System. *Zhang, L.*, +, *JIoT May 1, 2021 7333-7345*
- Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. *Hussain, T.*, +, *JIoT June 15, 2021 9634-9644*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H.*, +, *JIoT Feb. 15, 2021 2193-2207*
- Physical Activity Recognition With Statistical-Deep Fusion Model Using Multiple Sensory Data for Smart Health. *Huynh-The, T.*, +, *JIoT Feb. 1, 2021 1533-1543*
- Real-Time Multiple Object Visual Tracking for Embedded GPU Systems. *Fernandez-Sanjurjo, M.*, +, *JIoT June 1, 2021 9177-9188*
- Redundancy Removing Aggregation Network With Distance Calibration for Video Face Recognition. *Ou, Z.*, +, *JIoT May 1, 2021 7279-7287*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*
- Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*
- Video-Based Air Quality Measurement With Dual-Channel 3-D Convolutional Network. *Wang, Z.*, +, *JIoT Sept. 15, 2021 14372-14384*

Video streaming

- EdgeBooster: Edge-Assisted Real-Time Image Segmentation for the Mobile Web in WoT. *Huang, Y.*, +, *JIoT May 1, 2021 7288-7302*
- Quality-Aware Video Streaming for Green Cellular Networks With Hybrid Energy Sources. *Huang, G.*, +, *JIoT May 15, 2021 8543-8556*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F.*, +, *JIoT Feb. 1, 2021 1308-1321*
- Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. *Sodhro, A.H.*, +, *JIoT June 15, 2021 9664-9671*
- VID-WIN: Fast Video Event Matching With Query-Aware Windowing at the Edge for the Internet of Multimedia Things. *Yadav, P.*, +, *JIoT July 1, 2021 10367-10389*

Video surveillance

- A Novel Semi-Supervised Learning Approach to Pedestrian Reidentification. *Han, H.*, +, *JIoT Feb. 15, 2021 3042-3052*
- Centipede: Leveraging the Distributed Camera Crowd for Cooperative Video Data Storage. *Yu, J.*, +, *JIoT Nov. 15, 2021 16498-16509*
- Deep-Learning-Enhanced Multitarget Detection for End-Edge-Cloud Surveillance in Smart IoT. *Zhou, X.*, +, *JIoT Aug. 15, 2021 12588-12596*
- Exciting-Inhibition Network for Person Reidentification in Internet of Things. *Fu, M.*, +, *JIoT Oct. 15, 2021 15059-15069*
- Near-Online Tracking With Co-Occurrence Constraints in Blockchain-Based Edge Computing. *Sheng, H.*, +, *JIoT Feb. 15, 2021 2193-2207*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- Video Scene Segmentation Using Tensor-Train Faster-RCNN for Multimedia IoT Systems. *Dai, C.*, +, *JIoT June 15, 2021 9697-9705*
- Visible Thermal Person Reidentification via Mutual Learning Convolutional Neural Network in 6G-Enabled Visual Internet of Things. *Zhang, Z.*, +, *JIoT Oct. 15, 2021 15259-15266*

Virtual machines

- A Deep Blockchain Framework-Enabled Collaborative Intrusion Detection for Protecting IoT and Cloud Networks. *Alkadi, O.*, +, *JIoT June 15, 2021 9463-9472*
- An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P.*, +, *JIoT Aug. 15, 2021 12597-12609*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. *Abdel-Basset, M.*, +, *JIoT Aug. 15, 2021 12638-12649*
- Profit-Based Algorithm of Joint Real-Time Task Scheduling and Resource Allocation in C-RANs. *Hu, C.*, *JIoT Jan. 15, 2021 941-950*

Virtual reality

- Digital Twin Networks: A Survey. *Wu, Y.*, +, *JIoT Sept. 15, 2021 13789-13804*
- Enabling Massive IoT Toward 6G: A Comprehensive Survey. *Guo, F.*, +, *JIoT Aug. 1, 2021 11891-11915*
- Industrial Security Solution for Virtual Reality. *Lv, Z.*, +, *JIoT April 15, 2021 6273-6281*
- MotionBeep: Enabling Fitness Game for Collocated Players With Acoustic-Enabled IoT Devices. *Jin, R.*, +, *JIoT July 1, 2021 10755-10765*
- MusicID: A Brainwave-Based User Authentication System for Internet of Things. *Sooriyaarachchi, J.*, +, *JIoT May 15, 2021 8304-8313*
- Resource Provisioning in Edge Computing for Latency-Sensitive Applications. *Abouaomar, A.*, +, *JIoT July 15, 2021 11088-11099*
- Service-Oriented Energy-Latency Tradeoff for IoT Task Partial Offloading in MEC-Enhanced Multi-RAT Networks. *Qin, M.*, +, *JIoT Feb. 1, 2021 1896-1907*
- Terra: A Smart and Sensible Digital Twin Framework for Robust Robot Deployment in Challenging Environments. *Mo, Y.*, +, *JIoT Sept. 15, 2021 14039-14050*

Virtualization

- A Cost-Effective Approach for End-to-End QoS Management in NFV-Enabled IoT Platforms. *Ouedraogo, C.A.*, +, *JIoT March 1, 2021 3885-3903*
- A Survey of ICN Content Naming and In-Network Caching in 5G and Beyond Networks. *Serhane, O.*, +, *JIoT March 15, 2021 4081-4104*
- A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity. *Arzo, S.T.*, +, *JIoT Aug. 1, 2021 12021-12045*
- An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices. *Chhikara, P.*, +, *JIoT Aug. 15, 2021 12597-12609*
- Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. *Rodrigues, T.K.*, +, *JIoT Nov. 15, 2021 16231-16242*
- Dynamic Service Function Chain Orchestration for NFV/MEC-Enabled IoT Networks: A Deep Reinforcement Learning Approach. *Liu, Y.*, +, *JIoT May 1, 2021 7450-7465*
- Energy-Aware Service Function Chain Embedding in Edge-Cloud Environments for IoT Applications. *Thanh, N.H.*, +, *JIoT Sept. 1, 2021 13465-13486*
- Heterogeneous Task Offloading and Resource Allocations via Deep Recurrent Reinforcement Learning in Partial Observable Multifog Networks. *Baek, J.*, +, *JIoT Jan. 15, 2021 1041-1056*
- Lifetime-Priority-Driven Resource Allocation for WNV-Based Internet of Things. *Li, Y.*, +, *JIoT March 15, 2021 4514-4525*
- Multiagent Deep-Reinforcement-Learning-Based Virtual Resource Allocation Through Network Function Virtualization in Internet of Things. *Shah, H.A.*, +, *JIoT March 1, 2021 3410-3421*
- Multiservice Function Chain Embedding With Delay Guarantee: A Game-Theoretical Approach. *Li, J.*, +, *JIoT July 15, 2021 11219-11232*
- Network Service Chaining and Embedding With Provable Bounds. *Zheng, D.*, +, *JIoT May 1, 2021 7140-7151*
- STEC-IoT: A Security Tactic by Virtualizing Edge Computing on IoT. *Zhang, P.*, +, *JIoT Feb. 15, 2021 2459-2467*
- Task Allocation Framework For Software-Defined Fog v-RAN. *Moreira, C.M.*, +, *JIoT Sept. 15, 2021 14187-14201*
- Virtual IoT Service Slice Functions for Multiaccess Edge Computing Platform. *Nkenyereye, L.*, +, *JIoT July 15, 2021 11233-11248*
- Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*

Visible light communication

- End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. *Peng, H.*, +, *JIoT Dec. 15, 2021 17356-17371*

Visual databases

- Accurate Range Query With Privacy Preservation for Outsourced Location-Based Service in IoT. *Liu, Z.*, +, *JIoT Sept. 15, 2021 14322-14337*

Visual perception

- MAGIC: Machine-Learning-Guided Image Compression for Vision Applications in Internet of Things. *Chakraborty, P.*, +, *JIoT May 1, 2021 7303-7315*

Visualization

- An Intelligent End-Edge-Cloud Architecture for Visual IoT-Assisted Healthcare Systems. *Yang, Z.*, +, *JIoT Dec. 1, 2021 16779-16786*
- MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. *Zhao, Y.*, +, *JIoT Dec. 1, 2021 16933-16945*

Voids (solid)

- Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y.*, +, *JIoT May 1, 2021 7676-7690*

Voltage multipliers

- RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*

Voting

- d-BAME: Distributed Blockchain-Based Anonymous Mobile Electronic Voting. *Zaghloul, E.*, +, *JIoT Nov. 15, 2021 16585-16597*

W**Warehousing**

- Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey. *Song, Y.*, +, *JIoT March 15, 2021 4250-4274*

Water quality

- Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. *Manjakkal, L.*, +, *JIoT Sept. 15, 2021 13805-13824*
- Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. *Ouyang, B.*, +, *JIoT Sept. 15, 2021 14013-14027*

Water supply

- AgriSens: IoT-Based Dynamic Irrigation Scheduling System for Water Management of Irrigated Crops. *Roy, S.K.*, +, *JIoT March 15, 2021 5023-5030*

Water treatment

- Detection of Anomalies in Industrial IoT Systems by Data Mining: Study of CHRIST Osmotron Water Purification System. *Garmaroodi, M.S.S.*, +, *JIoT July 1, 2021 10280-10287*

Waveform generators

- A Performance Evaluation Framework for Direction Finding Using BLE AoA/AoD Receivers. *Huang, C.*, +, *JIoT March 1, 2021 3331-3345*

Wavelet transforms

- Federated Self-Supervised Learning of Multisensor Representations for Embedded Intelligence. *Saeed, A.*, +, *JIoT Jan. 15, 2021 1030-1040*
- Multiple Wavelet Convolutional Neural Network for Short-Term Load Forecasting. *Liao, Z.*, +, *JIoT June 15, 2021 9730-9739*
- Toward Secure and Efficient Deep Learning Inference in Dependable IoT Systems. *Qiu, H.*, +, *JIoT March 1, 2021 3180-3188*

Wearable sensors

- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y.*, +, *JIoT Nov. 15, 2021 16486-16497*
- Fully Passive-Printed Wireless Wear Sensor. *Serdah, M.*, +, *JIoT April 15, 2021 7036-7045*
- High-Power Density Inertial Energy Harvester Without Additional Proof Mass for Wearables. *Cai, M.*, +, *JIoT Jan. 1, 2021 297-308*
- Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. *Zhong, Z.*, +, *JIoT Dec. 1, 2021 17000-17013*
- Passive UHF RFID-Based Knitted Wearable Compression Sensor. *Tajin, M.A.S.*, +, *JIoT Sept. 1, 2021 13763-13773*

Weather forecasting

- Consensus Forecast of Rainfall Using Hybrid Climate Learning Model. *Madhukumar, N.*, +, *JIoT May 1, 2021 7270-7278*

Web services

- A QoS-Aware Service Composition Mechanism in the Internet of Things Using a Hidden-Markov-Model-Based Optimization Algorithm. *Sefati, S.*, +, *JIoT Oct. 15, 2021 15620-15627*
- An Improved Decomposition-Based Multiobjective Evolutionary Algorithm for IoT Service. *Chai, Z.*, +, *JIoT Jan. 15, 2021 1109-1122*

- IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. *Chen, L.*, +, *JIoT Aug. 15, 2021 12610-12622*
- RepChain: A Reputation-Based Secure, Fast, and High Incentive Blockchain System via Sharding. *Huang, C.*, +, *JIoT March 15, 2021 4291-4304*
- Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings. *Altaf, A.*, +, *JIoT May 1, 2021 7497-7509*
- SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. *Razian, M.*, +, *JIoT March 1, 2021 3665-3677*

Wetting

- Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks. *Choi, H.*, +, *JIoT Feb. 1, 2021 1611-1622*

Wide area networks

- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*
- A Novel Fair and Scalable Relay Control Scheme for Internet of Things in LoRa-Based Low-Power Wide-Area Networks. *Lee, S.*, +, *JIoT April 1, 2021 5985-6001*
- A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. *Ramson, S.R.J.*, +, *JIoT June 1, 2021 9278-9293*
- Batteryless LoRaWAN Communications Using Energy Harvesting: Modeling and Characterization. *Delgado, C.*, +, *JIoT Feb. 15, 2021 2694-2711*
- Cantor: Improving Goodput in LoRa Concurrent Transmission. *Xu, D.*, +, *JIoT Feb. 1, 2021 1519-1532*
- Cooperation for Spreading Factor Assignment in a Multioperator LoRaWAN Deployment. *Fawaz, H.*, +, *JIoT April 1, 2021 5544-5557*
- Exploring the Boundaries of Ambient RF Energy Harvesting With LoRaWAN. *Finnegan, J.*, +, *JIoT April 1, 2021 5736-5743*
- Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. *Jiang, X.*, +, *JIoT Jan. 15, 2021 901-915*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I.*, +, *JIoT May 15, 2021 8423-8436*
- Long-Term Monitoring of Smart City Assets via Internet of Things and Low-Power Wide-Area Networks. *Deese, A.S.*, +, *JIoT Jan. 1, 2021 222-231*
- LoRa System for Search and Rescue: Path-Loss Models and Procedures in Mountain Scenarios. *Bianco, G.M.*, +, *JIoT Feb. 1, 2021 1985-1999*
- LoRaWAN Adaptive Data Rate With Flexible Link Margin. *de Jesus, G.G.M.*, +, *JIoT April 1, 2021 6053-6061*
- LoRaWAN Scheduling: From Concept to Implementation. *Garrido-Hidalgo, C.*, +, *JIoT Aug. 15, 2021 12919-12933*
- METO: Matching-Theory-Based Efficient Task Offloading in IoT-Fog Interconnection Networks. *Swain, C.*, +, *JIoT Aug. 15, 2021 12705-12715*
- Modeling and Online Adaptation of ALOHA for Low-Power Wide-Area Networks (LPWANs). *Seo, J.*, +, *JIoT Oct. 15, 2021 15608-15619*
- Optimizing the Energy-Latency Tradeoff in NB-IoT With PSM and eDRX. *Sultania, A.K.*, +, *JIoT Aug. 1, 2021 12436-12454*
- Slope-Shift Keying LoRa-Based Modulation. *Hanif, M.*, +, *JIoT Jan. 1, 2021 211-221*
- Synchronous LoRa Communication by Exploiting Large-Area Out-of-Band Synchronization. *Beltramelli, L.*, +, *JIoT May 15, 2021 7912-7924*

Wideband

- A 3-D Nonstationary Wideband V2V GBSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L.*, +, *JIoT Dec. 15, 2021 17622-17638*

Wireless channels

- A Conditional Privacy Protection Scheme Based on Ring Signcryption for Vehicular Ad Hoc Networks. *Cai, Y.*, +, *JIoT Jan. 1, 2021 647-656*
- A Lightweight Key Generation Scheme for the Internet of Things. *Guo, D.*, +, *JIoT Aug. 1, 2021 12137-12149*
- A Lightweight Secure and Resilient Transmission Scheme for the Internet of Things in the Presence of a Hostile Jammer. *Letafati, M.*, +, *JIoT March 15, 2021 4373-4388*
- A Novel Collision-Aware Adaptive Data Rate Algorithm for LoRaWAN Networks. *Marini, R.*, +, *JIoT Feb. 15, 2021 2670-2680*
- A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. *Song, X.*, +, *JIoT Aug. 1, 2021 12329-12338*
- A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. *Chang, H.*, +, *JIoT June 15, 2021 9865-9877*

- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*
- Achieving High Throughput in Wireless Networks With Hybrid Backscatter and Wireless-Powered Communications. *Long, Y.*, +, *JIoT July 1, 2021 10896-10910*
- Adaptive Switching Scheme for RS Overhead Reduction in Massive MIMO With Industrial Internet of Things. *Lee, B.M.*, *JIoT Feb. 15, 2021 2585-2602*
- Analog Gradient Aggregation for Federated Learning Over Wireless Networks: Customized Design and Convergence Analysis. *Guo, H.*, +, *JIoT Jan. 1, 2021 197-210*
- Big Data Analytics for 6G-Enabled Massive Internet of Things. *Lv, Z.*, +, *JIoT April 1, 2021 5350-5359*
- Bistatic Backscatter Communication: Shunt Network Design. *Hua, M.*, +, *JIoT May 1, 2021 7691-7705*
- Code-Division OFDM Joint Communication and Sensing System for 6G Machine-Type Communication. *Chen, X.*, +, *JIoT Aug. 1, 2021 12093-12105*
- Cooperative Transmission of Energy-Constrained IoT Devices in Wireless-Powered Communication Networks. *Jeong, C.*, +, *JIoT March 1, 2021 3972-3982*
- Covert Communication in Relay-Assisted IoT Systems. *Gao, C.*, +, *JIoT April 15, 2021 6313-6323*
- CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z.*, +, *JIoT March 1, 2021 3422-3437*
- Cumulative Message Authentication Codes for Resource-Constrained IoT Networks. *Li, H.*, +, *JIoT Aug. 1, 2021 11847-11859*
- Decentralized Radio Resource Adaptation in D2D-U Networks. *Yin, R.*, +, *JIoT April 15, 2021 6720-6732*
- Design and Evaluation of Buffer-Aided Cooperative NOMA With Direct Transmission in IoT. *Xu, P.*, +, *JIoT May 15, 2021 8145-8158*
- Dynamic Aerial Base Station Placement for Minimum-Delay Communications. *Bai, T.*, +, *JIoT Feb. 1, 2021 1623-1635*
- Dynamic Bayesian Collective Awareness Models for a Network of Ego-Things. *Kanapram, D.T.*, +, *JIoT March 1, 2021 3224-3241*
- Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. *Xie, R.*, +, *JIoT Jan. 1, 2021 345-356*
- Dynamic Resource Allocation in UAV-Enabled mmWave Communication Networks. *Kumar, S.*, +, *JIoT June 15, 2021 9920-9933*
- ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks. *Wang, J.*, +, *JIoT Feb. 1, 2021 2078-2079*
- Encrypting Wireless Communications on the Fly Using One-Time Pad and Key Generation. *Li, G.*, +, *JIoT Jan. 1, 2021 357-369*
- Energy Beamforming for Cooperative Localization in Wireless-Powered Communication Network. *Zhao, Y.*, +, *JIoT Sept. 1, 2021 13750-13762*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T.*, +, *JIoT March 1, 2021 3369-3383*
- Energy-Efficient and Real-Time NOMA Scheduling in IoMT-Based Three-Tier WBANs. *Askari, Z.*, +, *JIoT Sept. 15, 2021 13975-13990*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H.*, +, *JIoT July 1, 2021 10779-10791*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R.*, +, *JIoT Sept. 1, 2021 13593-13607*
- Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. *Zhen, L.*, +, *JIoT April 1, 2021 5114-5128*
- Index-Domain Division Multiple Access for IoT Applications. *Wang, T.*, +, *JIoT June 1, 2021 9014-9029*
- Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach. *Wang, X.*, +, *JIoT March 15, 2021 4498-4513*
- Joint Beamforming and Power-Splitting Design for Cooperative Nonorthogonal Multicast. *Li, T.*, +, *JIoT Aug. 15, 2021 13039-13051*
- Joint Computation Offloading and Resource Allocation for MEC-Enabled IoT Systems With Imperfect CSI. *Wang, J.*, +, *JIoT March 1, 2021 3462-3475*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint Information-Theoretic Secrecy and Covert Communication in the Presence of an Untrusted User and Warden. *Forouzes, M.*, +, *JIoT May 1, 2021 7170-7181*
- Joint Power Allocation in Classified WBANs With Wireless Information and Power Transfer. *Li, S.*, +, *JIoT Jan. 15, 2021 989-1000*
- Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *Ye, H.*, +, *JIoT Sept. 1, 2021 13397-13413*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. *Xi, W.*, +, *JIoT Aug. 15, 2021 12758-12770*
- Location-Based Robust Beamforming Design for Cellular-Enabled UAV Communications. *Miao, W.*, +, *JIoT June 15, 2021 9934-9944*
- Massive MIMO Two-Way Relaying Systems With SWIPT in IoT Networks. *Wang, J.*, +, *JIoT Oct. 15, 2021 15126-15139*
- Max-Min Throughput Optimization in FDD Multiantenna Wirelessly Powered IoT Networks. *Ahmadian, A.*, +, *JIoT April 1, 2021 5866-5880*
- Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. *Li, C.*, +, *JIoT Oct. 1, 2021 14543-14558*
- Multicarrier Tandem Spreading Multiple Access (MC-TSMA) for High-Speed Railway (HSR) Scenario. *Ma, Y.*, +, *JIoT March 1, 2021 3490-3499*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B.*, +, *JIoT July 15, 2021 11705-11716*
- Nonorthogonal Multiple Access for Wireless-Powered IoT Networks. *Liu, Y.*, +, *JIoT Jan. 1, 2021 112-128*
- On Mobility-Aware and Channel-Randomness-Adaptive Optimal Neighbor Discovery for Vehicular Networks. *Zhu, L.*, +, *JIoT April 15, 2021 6828-6839*
- On the Latency, Rate, and Reliability Tradeoff in Wireless Networked Control Systems for IIoT. *Liu, W.*, +, *JIoT Jan. 15, 2021 723-733*
- On the Secure Spectral Efficiency of URLLC With Randomly Located Coluding Eavesdroppers. *Farhat, J.*, +, *JIoT Oct. 1, 2021 14672-14682*
- Pilot Allocation and Power Optimization of Massive MIMO Cellular Networks With Underlaid D2D Communications. *Nie, X.*, +, *JIoT Oct. 15, 2021 15317-15333*
- Power Control for Body Area Networks: Accurate Channel Prediction by Lightweight Deep Learning. *Yang, Y.*, +, *JIoT March 1, 2021 3567-3575*
- Rate Maximization of Wireless-Powered Cognitive Massive MIMO Systems. *Zhang, H.*, +, *JIoT April 1, 2021 5632-5644*
- Reconfigurable-Intelligent-Surface-Assisted MAC for Wireless Networks: Protocol Design, Analysis, and Optimization. *Cao, X.*, +, *JIoT Sept. 15, 2021 14171-14186*
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. *Garcia Sanchez, S.*, +, *JIoT June 15, 2021 9838-9854*
- Robust Design for Intelligent Reflecting Surface-Assisted MIMO-OFDMA Terahertz IoT Networks. *Hao, W.*, +, *JIoT Aug. 15, 2021 13052-13064*
- Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. *Chu, J.*, +, *JIoT Feb. 1, 2021 1959-1970*
- Robust Hybrid Precoding Design for Securing Millimeter-Wave IoT Networks Under Secrecy Outage Constraint. *Wang, C.*, +, *JIoT Aug. 15, 2021 13024-13038*
- RSS-Based Channel Estimation for IRS-Aided Wireless Energy Transfer System. *Jung, S.*, +, *JIoT Oct. 1, 2021 14860-14873*
- Secrecy Outage Minimization for Wireless-Powered Relay Networks With Destination-Assisted Cooperative Jamming. *Lee, K.*, +, *JIoT Feb. 1, 2021 1467-1476*
- Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. *Zhao, N.*, +, *JIoT March 15, 2021 4711-4722*
- Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*
- Service Characteristics-Oriented Joint Optimization of Radio and Computing Resource Allocation in Mobile-Edge Computing. *Feng, J.*, +, *JIoT June 1, 2021 9407-9421*

- Simultaneous Wireless Information and Power Transfer for Multiuser UAV-Enabled IoT Networks. *Jeong, C., +, JIoT May 15, 2021 8044-8055*
- Single Sensor to Estimate DOA With Programmable Metasurface. *Lin, M., +, JIoT June 15, 2021 10187-10197*
- Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G., +, JIoT July 1, 2021 10714-10730*
- Socially Aware Joint Resource Allocation and Computation Offloading in NOMA-Aided Energy-Harvesting Massive IoT. *Pei, X., +, JIoT April 1, 2021 5240-5249*
- Soft Actor-Critic DRL for Live Transcoding and Streaming in Vehicular Fog-Computing-Enabled IoV. *Fu, F., +, JIoT Feb. 1, 2021 1308-1321*
- Spatially Coupled Protograph LDPC-Coded Hierarchical Modulated BICM-ID Systems: A Promising Transmission Technique for 6G-Enabled Internet of Things. *Yang, Z., +, JIoT April 1, 2021 5149-5163*
- Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. *Zhang, Q., +, JIoT June 15, 2021 10146-10159*
- Status Update in IoT Networks: Age-of-Information Violation Probability and Optimal Update Rate. *Hu, L., +, JIoT July 15, 2021 11329-11344*
- The Complexity-Performance Tradeoff in Resource Allocation for URLLC Exploiting Dynamic CSI. *Librino, F., +, JIoT Sept. 1, 2021 13266-13277*
- Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. *Shi, H., +, JIoT Jan. 1, 2021 381-392*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R., +, JIoT Sept. 1, 2021 13222-13236*
- ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F., +, JIoT Feb. 1, 2021 1294-1307*
- Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P., +, JIoT May 15, 2021 7745-7767*
- Wireless-Powered Over-the-Air Computation in Intelligent Reflecting Surface-Aided IoT Networks. *Wang, Z., +, JIoT Feb. 1, 2021 1585-1598*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. *Tewes, S., +, JIoT June 1, 2021 9099-9108*
- Wireless communication**
- A 3-D Nonstationary Wideband V2V GBSM With UPAs for Massive MIMO Wireless Communication Systems. *Bai, L., +, JIoT Dec. 15, 2021 17622-17638*
- Adaptive Edge Association for Wireless Digital Twin Networks in 6G. *Lu, Y., +, JIoT Nov. 15, 2021 16219-16230*
- Chitchat: Efficient and Reliable Decoding of Two-Transmitter Superimposed Signals for IoT. *Cui, W., +, JIoT Nov. 15, 2021 16705-16717*
- Class-Incremental Learning for Wireless Device Identification in IoT. *Liu, Y., +, JIoT Dec. 1, 2021 17227-17235*
- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y., +, JIoT Nov. 15, 2021 16486-16497*
- Emotion-Aware and Intelligent Internet of Medical Things Toward Emotion Recognition During COVID-19 Pandemic. *Zhang, T., +, JIoT Nov. 1, 2021 16002-16013*
- Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q., +, JIoT Nov. 15, 2021 16473-16485*
- Federated Learning for Task and Resource Allocation in Wireless High-Altitude Balloon Networks. *Wang, S., +, JIoT Dec. 15, 2021 17460-17475*
- Guest Editorial Special Issue on Cybertwin-Driven 6G: Architectures, Methods, and Applications. *Yu, Q., +, JIoT Nov. 15, 2021 16191-16194*
- HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N., +, JIoT Dec. 1, 2021 16845-16852*
- Multiagent Reinforcement Learning Meets Random Access in Massive Cellular Internet of Things. *Bai, J., +, JIoT Dec. 15, 2021 17417-17428*
- Nonlinear EH-Based UAV-Assisted FD IoT Networks: Infinite and Finite Blocklength Analysis. *Raut, P., +, JIoT Dec. 15, 2021 17655-17668*
- Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K., +, JIoT Dec. 1, 2021 17111-17119*
- Performance Analysis and Optimization of a UAV-Enabled Two-Way Relaying Network Under FSMH, NC, and PNC Schemes. *Guo, X., +, JIoT Dec. 15, 2021 17802-17816*
- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H., +, JIoT Dec. 15, 2021 17678-17690*
- Task Offloading for Wireless VR-Enabled Medical Treatment With Blockchain Security Using Collective Reinforcement Learning. *Lin, P., +, JIoT Nov. 1, 2021 15749-15761*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y., +, JIoT Dec. 15, 2021 17762-17777*
- Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A., +, JIoT Dec. 15, 2021 17429-17435*
- Wireless fidelity**
- A Lightweight Deep Learning Algorithm for WiFi-Based Identity Recognition. *Cao, Y., +, JIoT Dec. 15, 2021 17449-17459*
- FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. *Chen, W., +, JIoT Nov. 15, 2021 16510-16521*
- The Impact of Covid-19 on Smartphone Usage. *Li, T., +, JIoT Dec. 1, 2021 16723-16733*
- Wireless LAN**
- 6G Multisource-Information-Fusion-Based Indoor Positioning via Gaussian Kernel Density Estimation. *Zhou, M., +, JIoT Oct. 15, 2021 15117-15125*
- A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. *Dou, F., +, JIoT April 15, 2021 6519-6535*
- A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. *Azad, M.A., +, JIoT Nov. 1, 2021 15796-15806*
- A Network-Aware Internet-Wide Scan for Security Maximization of IPv6-Enabled WLAN IoT Devices. *Verma, S., +, JIoT May 15, 2021 8411-8422*
- A Quantitative Study of DDoS and E-DDoS Attacks on WiFi Smart Home Devices. *Tushir, B., +, JIoT April 15, 2021 6282-6292*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R., +, JIoT March 15, 2021 4417-4432*
- A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning. *Zhang, W., +, JIoT Feb. 1, 2021 1406-1416*
- Building Layout Tomographic Reconstruction via Commercial WiFi Signals. *Zhang, Y., +, JIoT Oct. 15, 2021 15500-15511*
- Calibration-Free Positioning Technique Using Wi-Fi Ranging and Built-In Sensors of Mobile Devices. *Choi, J., +, JIoT Jan. 1, 2021 541-554*
- CampEdge: Distributed Computation Offloading Strategy Under Large-Scale AP-Based Edge Computing System for IoT Applications. *Wang, Z., +, JIoT April 15, 2021 6733-6745*
- Contention Resolution in Wi-Fi 6-Enabled Internet of Things Based on Deep Learning. *Chen, C., +, JIoT April 1, 2021 5309-5320*
- Context-Aware Wireless-Based Cross-Domain Gesture Recognition. *Kang, H., +, JIoT Sept. 1, 2021 13503-13515*
- CRISLoc: Reconstructable CSI Fingerprinting for Indoor Smartphone Localization. *Gao, Z., +, JIoT March 1, 2021 3422-3437*
- DFOPS: Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. *Tarekegn, G.B., +, JIoT March 1, 2021 3717-3729*
- Data Augmentation and Dense-LSTM for Human Activity Recognition Using WiFi Signal. *Zhang, J., +, JIoT March 15, 2021 4628-4641*
- DeepSeg: Deep-Learning-Based Activity Segmentation Framework for Activity Recognition Using WiFi. *Xiao, C., +, JIoT April 1, 2021 5669-5681*
- Design of Small Multiband Full-Screen Smartwatch Antenna for IoT Applications. *Xiao, B., +, JIoT Dec. 15, 2021 17724-17733*
- Device-Free Secure Interaction With Hand Gestures in WiFi-Enabled IoT Environment. *Zhao, Y., +, JIoT April 1, 2021 5619-5631*
- Energy-Efficient Frame Aggregation Scheme in IoT Over Fiber-Wireless Networks. *Zhang, H., +, JIoT July 1, 2021 10779-10791*
- ERFR-CTC: Exploiting Residual Frequency Resources in Physical-Level Cross-Technology Communication. *Yao, S., +, JIoT April 1, 2021 6062-6076*
- Exploiting User Mobility for WiFi RTT Positioning: A Geometric Approach. *Han, K., +, JIoT Oct. 1, 2021 14589-14606*

- FallViewer: A Fine-Grained Indoor Fall Detection System With Ubiquitous Wi-Fi Devices. Wang, Y., +, *JIoT Aug. 1, 2021 12455-12466*
- Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. Zhang, J., +, *JIoT May 1, 2021 7610-7624*
- GraphIPS: Calibration-Free and Map-Free Indoor Positioning Using Smartphone Crowdsourced Data. Zhao, Y., +, *JIoT Jan. 1, 2021 393-406*
- Indoor Fingerprinting With Bimodal CSI Tensors: A Deep Residual Sharing Learning Approach. Wang, X., +, *JIoT March 15, 2021 4498-4513*
- Indoor Localization Fusing WiFi With Smartphone Inertial Sensors Using LSTM Networks. Zhang, M., +, *JIoT Sept. 1, 2021 13608-13623*
- Interference-Aware Online Multicomponent Service Placement in Edge Cloud Networks and its AI Application. Han, P., +, *JIoT July 1, 2021 10557-10572*
- Is 5G Handover Secure and Private? A Survey. Zhao, D., +, *JIoT Aug. 15, 2021 12855-12879*
- KEEP: Secure and Efficient Communication for Distributed IoT Devices. Xi, W., +, *JIoT Aug. 15, 2021 12758-12770*
- LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. Guo, X., +, *JIoT April 15, 2021 6665-6676*
- mmEye: Super-Resolution Millimeter Wave Imaging. Zhang, F., +, *JIoT April 15, 2021 6995-7008*
- Monitoring Public Transit Ridership Flow by Passively Sensing Wi-Fi and Bluetooth Mobile Devices. Pu, Z., +, *JIoT Jan. 1, 2021 474-486*
- Multiple People Identification Through Walls Using Off-the-Shelf WiFi. Korany, B., +, *JIoT April 15, 2021 6963-6974*
- Optimal Witnessing of Healthcare IoT Data Using Blockchain Logging Contract. Chinaei, M.H., +, *JIoT June 15, 2021 10117-10130*
- Robust 60-GHz Beamforming for UAVs: Experimental Analysis of Hovering, Blockage, and Beam Selection. Garcia Sanchez, S., +, *JIoT June 15, 2021 9838-9854*
- Sniffing Only Control Packets: A Lightweight Client-Side WiFi Traffic Characterization Solution. Song, L., +, *JIoT April 15, 2021 6536-6548*
- Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. Shi, H., +, *JIoT Jan. 1, 2021 381-392*
- Understanding and Modeling of WiFi Signal-Based Indoor Privacy Protection. Zhang, W., +, *JIoT Feb. 1, 2021 2000-2010*
- Updating Radio Maps Without Pain: An Enhanced Transfer Learning Approach. Yang, J., +, *JIoT July 1, 2021 10693-10705*
- ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. Wang, F., +, *JIoT Feb. 1, 2021 1294-1307*
- Vulnerability of WiFi's Noise Floor Calibration. Kim, S., +, *JIoT May 15, 2021 8504-8513*
- Wi-PSG: Detecting Rhythmic Movement Disorder Using COTS WiFi. Liu, W., +, *JIoT March 15, 2021 4681-4696*
- WiCrowd: Counting the Directional Crowd With a Single Wireless Link. Zhang, L., +, *JIoT May 15, 2021 8644-8656*
- WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. Yu, B., +, *JIoT Sept. 15, 2021 13900-13913*
- Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. Park, P., +, *JIoT May 15, 2021 7745-7767*
- WS-WiFi: Wired Synchronization for CSI Extraction on COTS-WiFi-Transceivers. Tewes, S., +, *JIoT June 1, 2021 9099-9108*
- Wireless mesh networks**
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. Narayanan, R., +, *JIoT March 15, 2021 4417-4432*
- BMADS: BLE Mesh Asynchronous Dynamic Scanning. Perez-Diaz-de-Cerio, D., +, *JIoT Feb. 15, 2021 2558-2573*
- Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. Jiang, X., +, *JIoT Jan. 15, 2021 901-915*
- NUPFA: A Novel Nonuniform Power Formation Algorithm for BLE Mesh Networks. Yu, C., +, *JIoT April 15, 2021 7103-7104*
- The Meshing of the Sky: Delivering Ubiquitous Connectivity to Ground Internet of Things. Abouzaid, L., +, *JIoT March 1, 2021 3743-3757*
- Wireless networks**
- Reliable Cybertwin-Driven Concurrent Multipath Transfer With Deep Reinforcement Learning. Yu, C., +, *JIoT Nov. 15, 2021 16207-16218*
- Toward Secure Localization in Randomly Deployed Wireless Networks. Beko, M., +, *JIoT Dec. 15, 2021 17436-17448*
- Wireless sensor networks**
- K-Sweep Coverage With Mobile Sensor Nodes in Wireless Sensor Networks. Liu, C., +, *JIoT Sept. 15, 2021 13888-13899*
- A 3-D Topology Evolution Scheme With Self-Adaption for Industrial Internet of Things. Qiu, T., +, *JIoT June 15, 2021 9473-9483*
- A Comprehensive Review on Secure Routing in Internet of Things: Mitigation Methods and Trust-Based Approaches. Muzammal, S.M., +, *JIoT March 15, 2021 4186-4210*
- A Graph-Based Fault-Tolerant Approach to Modeling QoS for IoT-Based Surveillance Applications. Thomas, D., +, *JIoT March 1, 2021 3587-3604*
- A Hydrogen Concentration Monitoring System With Passive Tags. Li, G., +, *JIoT June 1, 2021 9244-9256*
- A Machine-Learning-Based Data-Centric Misbehavior Detection Model for Internet of Vehicles. Sharma, P., +, *JIoT March 15, 2021 4991-4999*
- A Mobile Charging Algorithm Based on Multicharger Cooperation in Internet of Things. Han, G., +, *JIoT Jan. 15, 2021 684-694*
- A Mobile-Beacon-Based Iterative Localization Mechanism in Large-Scale Underwater Acoustic Sensor Networks. Su, Y., +, *JIoT March 1, 2021 3653-3664*
- A New Preventive Routing Method Based on Clustering and Location Prediction in the Mobile Internet of Things. Sadrishojaei, M., +, *JIoT July 1, 2021 10652-10664*
- A New TOA Localization and Synchronization System With Virtually Synchronized Periodic Asymmetric Ranging Network. Zhao, S., +, *JIoT June 1, 2021 9030-9044*
- A Periodic and Distributed Energy Supplement Method Based on Maximum Recharging Benefit in Sensor Networks. Sha, C., +, *JIoT Feb. 15, 2021 2649-2669*
- A Prim-Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. Freschi, V., +, *JIoT July 15, 2021 11320-11328*
- A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. Narayanan, R., +, *JIoT March 15, 2021 4417-4432*
- A Secure Scheme Based on One-Way Associated Key Management Model in Wireless Sensor Networks. Li, S., +, *JIoT Feb. 15, 2021 2920-2930*
- A Survey of Recent Advances in Edge-Computing-Powered Artificial Intelligence of Things. Chang, Z., +, *JIoT Sept. 15, 2021 13849-13875*
- A Tree-Structured LoRa Network for Energy Efficiency. Tehrani, Y.H., +, *JIoT April 1, 2021 6002-6011*
- An Adaptive-Location-Based Routing Protocol for 3-D Underwater Acoustic Sensor Networks. Wang, Q., +, *JIoT April 15, 2021 6853-6864*
- An Efficient RPL-Based Mechanism for Node-to-Node Communications in IoT. Mahyoub, M., +, *JIoT May 1, 2021 7152-7169*
- An Enhanced Certificateless Aggregate Signature Without Pairings for E-Healthcare System. Yang, W., +, *JIoT March 15, 2021 5000-5008*
- An Extended Hierarchical Clustering Approach to Energy-Harvesting Mobile Wireless Sensor Networks. Lee, J., +, *JIoT May 1, 2021 7105-7114*
- An Ontology-Based System to Collect WSN-UAS Data Effectively. Martin-Lammerding, D., +, *JIoT March 1, 2021 3636-3652*
- Analysis of a Network Stability-Aware Clustering Protocol for Cognitive Radio Sensor Networks. Shakhov, V., +, *JIoT Aug. 1, 2021 12476-12477*
- Analysis of the Interdelivery Time in IoT Energy Harvesting Wireless Sensor Networks. Hentati, A., +, *JIoT March 15, 2021 4920-4930*
- Anypath Routing Protocol Design via Q-Learning for Underwater Sensor Networks. Zhou, Y., +, *JIoT May 15, 2021 8173-8190*
- AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. Fang, Z., +, *JIoT Oct. 1, 2021 14559-14571*
- AoI-Minimal Trajectory Planning and Data Collection in UAV-Assisted Wireless Powered IoT Networks. Hu, H., +, *JIoT Jan. 15, 2021 1211-1223*
- Asynchronous Resilient Wireless Sensor Network for Train Integrity Monitoring. Lazarescu, M.T., +, *JIoT March 1, 2021 3939-3954*
- ATTDC: An Active and Traceable Trust Data Collection Scheme for Industrial Security in Smart Cities. Shen, M., +, *JIoT April 15, 2021 6437-6453*
- Attribute-Based Secure Announcement Sharing Among Vehicles Using Blockchain. Ma, J., +, *JIoT July 1, 2021 10873-10883*

- Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kaliya, A., +, JIoT Aug. 1, 2021 12242-12250*
- BMADS: BLE Mesh Asynchronous Dynamic Scanning. *Perez-Diaz-de-Cerio, D., +, JIoT Feb. 15, 2021 2558-2573*
- CCIC-WSN: An Architecture for Single-Channel Cluster-Based Information-Centric Wireless Sensor Networks. *Rehman, M.A.U., +, JIoT May 1, 2021 7661-7675*
- Certificateless Designated Verifier Anonymous Aggregate Signature Scheme for Healthcare Wireless Sensor Networks. *Deng, L., +, JIoT June 1, 2021 8897-8909*
- Confident Information Coverage Hole Prediction and Repairing for Healthcare Big Data Collection in Large-Scale Hybrid Wireless Sensor Networks. *Feng, J., +, JIoT Dec. 1, 2021 16801-16813*
- Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. *Chatterjee, B., +, JIoT April 15, 2021 6800-6814*
- Control-Aware Energy-Efficient Transmissions for Wireless Control Systems With Short Packets. *Wu, Y., +, JIoT Oct. 1, 2021 14920-14933*
- Cryptanalysis and Improvement of a Pairing-Free Certificateless Aggregate Signature in Healthcare Wireless Medical Sensor Networks. *Zhan, Y., +, JIoT April 1, 2021 5973-5984*
- Delay-Aware Green Routing for Mobile-Sink-Based Wireless Sensor Networks. *Jain, S., +, JIoT March 15, 2021 4882-4892*
- Device-Free Localization: A Review of Non-RF Techniques for Unobtrusive Indoor Positioning. *Alam, F., +, JIoT March 15, 2021 4228-4249*
- Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. *Zhang, R., +, JIoT Feb. 15, 2021 2517-2539*
- Dimension Reduction Algorithm Based on Adaptive Maximum Linear Neighborhood Selection in Edge Computing. *Li, G., +, JIoT Nov. 15, 2021 16440-16451*
- Distributed and Collaborative Localization for Swarming UAVs. *Chen, R., +, JIoT March 15, 2021 5062-5074*
- Distributed Data Collection in Age-Aware Vehicular Participatory Sensing Networks. *Qin, X., +, JIoT Oct. 1, 2021 14501-14513*
- Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. *Ciuonzo, D., +, JIoT June 1, 2021 9059-9071*
- DORA: A Destination-Oriented Routing Algorithm for Energy-Balanced Wireless Sensor Networks. *Wang, K., +, JIoT Feb. 1, 2021 2080-2081*
- Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. *Moreno-Cruz, F., +, JIoT March 1, 2021 3678-3688*
- Dynamic Ambient RF Energy Density Measurements of Montreal for Battery-Free IoT Sensor Network Planning. *Gu, X., +, JIoT Sept. 1, 2021 13209-13221*
- Dynamic Charging Scheme Problem With Actor-Critic Reinforcement Learning. *Yang, M., +, JIoT Jan. 1, 2021 370-380*
- E-Textile Battery-Less Displacement and Strain Sensor for Human Activities Tracking. *Liu, Y., +, JIoT Nov. 15, 2021 16486-16497*
- ECE: A Novel Performance Evaluation Metric for Clustering Protocols in Cognitive Radio Sensor Networks. *Wang, J., +, JIoT Feb. 1, 2021 2078-2079*
- Ecologically Friendly Full-Duplex Data Transmission Scheme for Underwater Acoustic Sensor Networks. *Qian, Y., +, JIoT May 1, 2021 7676-7690*
- Edge-Based Hybrid System Implementation for Long-Range Safety and Healthcare IoT Applications. *Wu, F., +, JIoT June 15, 2021 9970-9980*
- Embedded Streaming Principal Components Analysis for Network Load Reduction in Structural Health Monitoring. *Burrello, A., +, JIoT March 15, 2021 4433-4447*
- Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. *Koca, M., +, JIoT Jan. 1, 2021 179-186*
- End-to-End Delay Bound for Wireless uVR Services Over 6G Terahertz Communications. *Fantacci, R., +, JIoT Dec. 1, 2021 17090-17099*
- Energy Consumption Minimization With Throughput Heterogeneity in Wireless-Powered Body Area Networks. *Wang, T., +, JIoT March 1, 2021 3369-3383*
- Energy-Adaptive and Bottleneck-Aware Many-to-Many Communication Scheduling for Battery-Free WSNs. *Yao, B., +, JIoT May 15, 2021 8514-8529*
- Energy-Aware Geographic Routing for Real-Time Workforce Monitoring in Industrial Informatics. *Sangaiah, A.K., +, JIoT June 15, 2021 9753-9762*
- Energy-Efficient Anomaly Detection With Primary and Secondary Attributes in Edge-Cloud Collaboration Networks. *Li, X., +, JIoT Aug. 1, 2021 12176-12188*
- Energy-Efficient Drone Trajectory Planning for the Localization of 6G-Enabled IoT Devices. *Kouroshnezhad, S., +, JIoT April 1, 2021 5202-5210*
- Energy-Efficient Intelligent Routing Scheme for IoT-Enabled WSNs. *Kaur, G., +, JIoT July 15, 2021 11440-11449*
- Energy-Efficient k-Hop Clustering in Cognitive Radio Sensor Network for Internet of Things. *Prajapat, R., +, JIoT Sept. 1, 2021 13593-13607*
- Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. *Mukherjee, A., +, JIoT April 1, 2021 5194-5201*
- Energy-Efficient UAV-Enabled Data Collection via Wireless Charging: A Reinforcement Learning Approach. *Fu, S., +, JIoT June 15, 2021 10209-10219*
- Experimental Link Quality Analysis for LoRa-Based Wireless Underground Sensor Networks. *Lin, K., +, JIoT April 15, 2021 6565-6577*
- Exploring the Boundaries of Ambient RF Energy Harvesting With LoRaWAN. *Finnegan, J., +, JIoT April 1, 2021 5736-5743*
- Extracting Urban Sound Information for Residential Areas in Smart Cities Using an End-to-End IoT System. *Tan, E., +, JIoT Sept. 15, 2021 14308-14321*
- Fast Consensus-Based Time Synchronization Protocol Using Virtual Topology for Wireless Sensor Networks. *Phan, L., +, JIoT May 1, 2021 7485-7496*
- Fast Containment of Infectious Diseases With E-Healthcare Mobile Social Internet of Things. *Xu, Q., +, JIoT Nov. 15, 2021 16473-16485*
- Fast Sensory Data Aggregation in IoT Networks: Collision-Resistant Dynamic Approach. *Nguyen, T., +, JIoT Jan. 15, 2021 766-777*
- Fully Passive-Printed Wireless Wear Sensor. *Serdah, M., +, JIoT April 15, 2021 7036-7045*
- Game Theory for Anti-Jamming Strategy in Multichannel Slow Fading IoT Networks. *Gouissem, A., +, JIoT Dec. 1, 2021 16880-16893*
- Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. *Xing, G., +, JIoT June 1, 2021 9005-9013*
- Geometric Analysis of Energy Saving for Directional Charging in WRSNs. *Jia, R., +, JIoT March 15, 2021 4697-4710*
- Gradient-Free Scheduling of Fog Computation for Marine Data Feedback. *Xu, Y., JIoT April 1, 2021 5657-5668*
- Guest Editorial Special Issue on Age of Information and Data Semantics for Sensing, Communication, and Control Co-Design in IoT. *Zhou, S., +, JIoT Oct. 1, 2021 14431-14434*
- HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms. *Pathak, N., +, JIoT Dec. 1, 2021 16845-16852*
- Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. *Liu, H., +, JIoT Oct. 1, 2021 14458-14470*
- Hybrid Power Management System for LoRa Communication Using Renewable Energy. *Petrariu, A.I., +, JIoT May 15, 2021 8423-8436*
- Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. *Pinrod, V., +, JIoT March 15, 2021 5009-5022*
- Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. *Yang, F., +, JIoT June 15, 2021 10170-10186*
- Improved Soft-k-Means Clustering Algorithm for Balancing Energy Consumption in Wireless Sensor Networks. *Zhu, B., +, JIoT March 15, 2021 4868-4881*
- Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. *Cho, H., +, JIoT Feb. 15, 2021 2379-2394*
- Interval Observer-Based Detection and Localization Against False Data Injection Attack in Smart Grids. *Luo, X., +, JIoT Jan. 15, 2021 657-671*

- IoT-Ready Energy-Autonomous Parking Sensor Device. *Solic, P.*, +, *JIoT March 15, 2021 4830-4840*
- Joint Flight Cruise Control and Data Collection in UAV-Aided Internet of Things: An Onboard Deep Reinforcement Learning Approach. *Li, K.*, +, *JIoT June 15, 2021 9787-9799*
- Joint UAV Position and Power Optimization for Accurate Regional Localization in Space-Air Integrated Localization Network. *Zhao, Y.*, +, *JIoT March 15, 2021 4841-4854*
- Localization Algorithm for Underwater Sensor Network: A Review. *Luo, J.*, +, *JIoT Sept. 1, 2021 13126-13144*
- Long-Term Energy Collection in Self-Sustainable Sensor Networks: A Deep Q-Learning Approach. *Jia, R.*, +, *JIoT Sept. 15, 2021 14299-14307*
- Long-Term Scheduling and Power Control for Wirelessly Powered Cell-Free IoT. *Wang, X.*, +, *JIoT Jan. 1, 2021 332-344*
- Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. *Liu, Y.*, +, *JIoT Aug. 1, 2021 12266-12278*
- Minimizing Redundant Sensing Data Transmissions in Energy-Harvesting Sensor Networks via Exploring Spatial Data Correlations. *Guo, Z.*, +, *JIoT Jan. 1, 2021 512-527*
- Missing Data Imputation With Bayesian Maximum Entropy for Internet of Things Applications. *Gonzalez-Vidal, A.*, +, *JIoT Nov. 1, 2021 16108-16120*
- Monotone Split and Conquer for Anomaly Detection in IoT Sensory Data. *Dang, T.*, +, *JIoT Oct. 15, 2021 15468-15485*
- Most Efficient Sensor Network Protocol for a Permanent Natural Disaster Monitoring System. *Lee, C.*, +, *JIoT Aug. 1, 2021 11776-11792*
- Multihypothesis Sequential Testing for Illegitimate Access and Collision-Based Attack Detection in Wireless IoT Networks. *Upadhyaya, B.*, +, *JIoT July 15, 2021 11705-11716*
- Multistation-Based Collaborative Charging Strategy for High-Density Low-Power Sensing Nodes in Industrial Internet of Things. *Liao, Z.*, +, *JIoT May 1, 2021 7575-7588*
- OCSID: Orthogonal Accessing Control Without Spectrum Spreading for Massive RFID Network. *Guo, H.*, +, *JIoT March 15, 2021 4329-4338*
- On the Optimal Deployment of Power Beacons for Massive Wireless Energy Transfer. *Rosabal, O.M.*, +, *JIoT July 1, 2021 10531-10542*
- Online-Learning-Based Defense Against Jamming Attacks in Multichannel Wireless CPS. *Alipour-Fanid, A.*, +, *JIoT Sept. 1, 2021 13278-13290*
- Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. *Yang, F.*, +, *JIoT Aug. 15, 2021 13095-13114*
- Optimal Sensing Task Distribution Algorithm for Mobile Sensor Networks With Agent Cooperation Relationship. *Zhang, Y.*, +, *JIoT May 15, 2021 8223-8233*
- Optimizing Superframe and Data Buffer to Achieve Maximum Throughput for 802.15.4-Based Energy Harvesting Wireless Sensor Networks. *Zhu, Y.*, +, *JIoT March 1, 2021 3689-3704*
- Ordinal UNLOC: Target Localization With Noisy and Incomplete Distance Measures. *Banavar, M.K.*, +, *JIoT Dec. 1, 2021 17111-17119*
- Packet-Level Slot Scheduling MAC Protocol in Underwater Acoustic Sensor Networks. *Liu, M.*, +, *JIoT June 1, 2021 8990-9004*
- Passive Indoor Visible Light Positioning System Using Deep Learning. *Majeed, K.*, +, *JIoT Oct. 1, 2021 14810-14821*
- Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. *Oguntala, G.A.*, +, *JIoT July 1, 2021 10953-10962*
- Performance Analysis of Delay Distribution and Packet Loss Ratio for Body-to-Body Networks. *Li, X.*, +, *JIoT Nov. 15, 2021 16598-16612*
- Power-Tolerant NOMA Using Data-Aware Adaptive Power Assignment for IoT Systems. *Yahya, H.*, +, *JIoT Oct. 1, 2021 14896-14907*
- PPRQ: Privacy-Preserving MAX/MIN Range Queries in IoT Networks. *Sciancalepore, S.*, +, *JIoT March 15, 2021 5075-5092*
- Real-Time Task Scheduling on Intermittently Powered Batteryless Devices. *Karimi, M.*, +, *JIoT Sept. 1, 2021 13328-13342*
- ReapIoT: Reliable, Energy-Aware Network Protocol for Large-Scale Internet-of-Things (IoT) Applications. *Badi, A.*, +, *JIoT Sept. 1, 2021 13582-13592*
- Reinforcement-Learning-Enabled Partial Confidential Information Coverage for IoT-Based Bridge Structural Health Monitoring. *Yi, L.*, +, *JIoT March 1, 2021 3108-3119*
- Relay-Aided Wireless Sensor Network Discovery Algorithm for Dense Industrial IoT Utilizing ESPAR Antennas. *Ademaj, F.*, +, *JIoT Nov. 15, 2021 16653-16665*
- Reliability-Constrained Throughput Optimization of Industrial Wireless Sensor Networks With Energy Harvesting Relay. *Ma, K.*, +, *JIoT Sept. 1, 2021 13343-13354*
- Request-Response and Censoring-Based Energy-Efficient Decentralized Change-Point Detection With IoT Applications. *Gu, Y.*, +, *JIoT April 15, 2021 6771-6788*
- Residual Energy Maximization-Based Resource Allocation in Wireless-Powered Edge Computing Industrial IoT. *Xu, H.*, +, *JIoT Dec. 15, 2021 17678-17690*
- RF Energy Harvesting for Batteryless and Maintenance-Free Condition Monitoring of Railway Tracks. *Li, P.*, +, *JIoT March 1, 2021 3512-3523*
- RNN-Based Learning of Nonlinear Dynamic System Using Wireless IIoT Networks. *Cai, S.*, +, *JIoT July 15, 2021 11177-11192*
- Robust Neighbor-Aware Time Synchronization Protocol for Wireless Sensor Network in Dynamic and Hostile Environments. *Phan, L.*, +, *JIoT Feb. 1, 2021 1934-1945*
- Secure and Privacy-Preserved Data Collection for IoT Wireless Sensors. *Rezaeibagha, F.*, +, *JIoT Dec. 15, 2021 17669-17677*
- Shadow: A Lightweight Block Cipher for IoT Nodes. *Guo, Y.*, +, *JIoT Aug. 15, 2021 13014-13023*
- Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G.*, +, *JIoT July 1, 2021 10714-10730*
- Smart-Cluster-Based Distributed Caching for Fog-IoT Networks. *Abkenar, F.S.*, +, *JIoT March 1, 2021 3875-3884*
- Spatiotemporal Medium Access Control for Wireless Powered IoT Networks. *Iqbal, A.*, +, *JIoT Oct. 1, 2021 14822-14834*
- Strengthening the Achilles' Heel: An AUV-Aided Message Ferry Approach Against Dissemination Vulnerability in UASNs. *Liu, L.*, +, *JIoT Oct. 1, 2021 14948-14958*
- Task Scheduling for Energy-Harvesting-Based IoT: A Survey and Critical Analysis. *Sandhu, M.M.*, +, *JIoT Sept. 15, 2021 13825-13848*
- The Role of UAV-IoT Networks in Future Wildfire Detection. *Bushnaq, O.M.*, +, *JIoT Dec. 1, 2021 16984-16999*
- To Hide Private Position Information in Localization for Internet of Underwater Things. *Yan, J.*, +, *JIoT Sept. 15, 2021 14338-14354*
- Topological Optimization of Lung Wireless Nanosensor Network. *Xu, J.*, +, *JIoT July 15, 2021 11450-11462*
- Toward a Distributed Approach for Detection and Mitigation of Denial-of-Service Attacks Within Industrial Internet of Things. *Borgiani, V.*, +, *JIoT March 15, 2021 4569-4578*
- Toward Location-Enabled IoT (LE-IoT): IoT Positioning Techniques, Error Sources, and Error Mitigation. *Li, Y.*, +, *JIoT March 15, 2021 4035-4062*
- Traffic-Aware Task Offloading Based on Convergence of Communication and Sensing in Vehicular Edge Computing. *Qi, Y.*, +, *JIoT Dec. 15, 2021 17762-17777*
- UAV-Aided Cooperative Data Collection Scheme for Ocean Monitoring Networks. *Ma, R.*, +, *JIoT Sept. 1, 2021 13222-13236*
- UAV-Aided Relative Localization of Terminals. *Liu, Y.*, +, *JIoT Aug. 15, 2021 12999-13013*
- UAV-Assisted Data Collection With Nonorthogonal Multiple Access. *Chen, W.*, +, *JIoT Jan. 1, 2021 501-511*
- Ubiquitous Tracking for Autonomous Underwater Vehicle With IoUT: A Rigid-Graph-Based Solution. *Zhao, H.*, +, *JIoT Sept. 15, 2021 14094-14109*
- Ultra Large-Scale Crowd Monitoring System Architecture and Design Issues. *Jiang, Y.*, +, *JIoT July 1, 2021 10356-10366*
- ViMo: Multiperson Vital Sign Monitoring Using Commodity Millimeter-Wave Radio. *Wang, F.*, +, *JIoT Feb. 1, 2021 1294-1307*
- ViPSN: A Vibration-Powered IoT Platform. *Li, X.*, +, *JIoT Feb. 1, 2021 1728-1739*

Virtual Network Embedding for Wireless Sensor Networks Time-Efficient QoS/QoI-Aware Approach. *Katona, R.*, +, *JIoT Jan. 15, 2021 916-926*
 Wireless-Sensor Network Topology Optimization in Complex Terrain: A Bayesian Approach. *Oroza, C.A.*, +, *JIoT Dec. 15, 2021 17429-17435*
 XgBoosted Neighbor Referring in Low-Duty-Cycle Wireless Sensor Networks. *Wang, Y.*, +, *JIoT March 1, 2021 3446-3461*

Wounds

Smart Bandage With Wireless Strain and Temperature Sensors and Battery-less NFC Tag. *Escobedo, P.*, +, *JIoT March 15, 2021 5093-5100*

X**X reality**

Trustworthy and Intelligent COVID-19 Diagnostic IoMT Through XR and Deep-Learning-Based Clinic Data Access. *Tai, Y.*, +, *JIoT Nov. 1, 2021 15965-15976*

X-ray imaging

An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. *Ahmed, I.*, +, *JIoT Nov. 1, 2021 15855-15862*
 DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. *Ding, Y.*, +, *JIoT Feb. 1, 2021 1504-1518*

Z**Zigbee**

A Robust Radio-Frequency Fingerprint Extraction Scheme for Practical Device Recognition. *Zhou, X.*, +, *JIoT July 15, 2021 11276-11289*
 A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. *Narayanan, R.*, +, *JIoT March 15, 2021 4417-4432*

An Advanced GNU Radio Receiver of IEEE 802.15.4 OQPSK Physical Layer. *Faulkner, E.*, +, *JIoT June 1, 2021 9206-9218*
 Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network. *Kalita, A.*, +, *JIoT Aug. 1, 2021 12242-12250*

Decision of Ranging Interval for IEEE 802.15.4z UWB Ranging Devices. *Jeon, W.S.*, +, *JIoT Oct. 15, 2021 15628-15638*

LEGO-Fi: Transmitter-Transparent CTC With Cross-Demapping. *Guo, X.*, +, *JIoT April 15, 2021 6665-6676*

NCHR: A Nonthreshold-Based Cluster-Head Rotation Scheme for IEEE 802.15.4 Cluster-Tree Networks. *Choudhury, N.*, +, *JIoT Jan. 1, 2021 168-178*

Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. *Chen, D.*, +, *JIoT Sept. 1, 2021 13367-13383*

ZigBee

OCF-to-ZigBee (O2Z) Bridging Technique and IoTivity-Based Implementation. *Oh, H.S.*, +, *JIoT Nov. 15, 2021 16418-16426*

Zigbee

REA-6TiSCH: Reliable Emergency-Aware Communication Scheme for 6TiSCH Networks. *Farag, H.*, +, *JIoT Feb. 1, 2021 1871-1882*

Securing ZigBee Communications Against Constant Jamming Attack Using Neural Network. *Pirayesh, H.*, +, *JIoT March 15, 2021 4957-4968*

Slot Bonding for Adaptive Modulations in IEEE 802.15.4e TSCH Networks. *Daneels, G.*, +, *JIoT July 1, 2021 10714-10730*

Transmission Scheduling With Order Constraints in WIA-FA-Based AGV Systems. *Shi, H.*, +, *JIoT Jan. 1, 2021 381-392*

Vulnerability of WiFi's Noise Floor Calibration. *Kim, S.*, +, *JIoT May 15, 2021 8504-8513*

Wireless Avionics Intracommunications: A Survey of Benefits, Challenges, and Solutions. *Park, P.*, +, *JIoT May 15, 2021 7745-7767*