2020 Index
IEEE Systems Journal
Vol. 14

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2019, and items from previous years that were commented upon or corrected in 2019. 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

Aamir, M., *see* Liu, M., *JSYST March 2020 582-591*

Abapour, M., *see* Hemmati, M., *JSYST Dec. 2020 5340-5349*

Abbas, H., *see* Imran, M., *JSYST June 2020 1933-1944*

Abbas, H., *see* Bangash, Y.A., *JSYST Sept. 2020 4489-4499*

Abd-Allah, M.A., *see* Ebrahim, M.A., *JSYST Sept. 2020 3893-3903*

Abdel-Nasser, M., *see* Mahmoud, K., *JSYST March 2020 760-770*

Abdel-Rahman, M.J., *see* Gomez, M.M., *JSYST March 2020 489-499*

Abdelaziz, A.Y., *see* Osama, R.A., *JSYST March 2020 916-926*

Abdelkefi, F., *see* Chaieb, C., *JSYST Sept. 2020 3957-3967*

Abdelmawgoud, A., Jamshidi, M., and Benavidez, P., Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay; *JSYST March 2020 1491-1502*

Abdollahi, F., *see* Rezaee, H., *JSYST Sept. 2020 3539-3546*

Abdul Rahim, N.B., and Ferris, T.L.J., A Method to Establish a Trade-Space of System Requirements and Life Cycle Cost; *JSYST March 2020 1257-1264*

Abdurrahman, L., Hybrid Configuration in Information Technology Value Model; *JSYST Sept. 2020 4515-4522*

Abedi, M., *see* Zolfaghari, M., *JSYST March 2020 1117-1124*

Abedi, M., *see* Khodadoost Arani, A.A., *JSYST March 2020 1080-1087*

Abedinia, O., Bagheri, M., Naderi, M.S., and Ghadimi, N., A New Combinatory Approach for Wind Power Forecasting; *JSYST Sept. 2020 4614-4625*

Abinahed, J., *see* Zhai, X., *JSYST June 2020 1592-1601*

Abs da Cruz, A.V., *see* Pereira, C.S., *JSYST Sept. 2020 3926-3937*

Abu-Mahfouz, A.M., *see* Ndiaye, M., *JSYST June 2020 2347-2357*

Abualigah, L.M., *see* Khasawneh, A.M., *JSYST Dec. 2020 4735-4745*

Adamidi, E.S., Gazis, E.N., and Nikita, K.S., A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions; *JSYST March 2020 1384-1394*

Aftab, M.A., Hussain, S.M.S., Ali, I., and Ustun, T.S., A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850; *JSYST June 2020 2676-2683*

Afzal, H., *see* Bangash, Y.A., *JSYST Sept. 2020 4489-4499*

Agarwal, S., *see* Muhlmeyer, M., *JSYST Dec. 2020 5187-5198*

Agba, B.L., *see* Alam, M.S., *JSYST Sept. 2020 4079-4088*

Agbossou, K., *see* Guzman, C., *JSYST Sept. 2020 4262-4271*

Aggarwal, P., *see* Shaikh, M.H.N., *JSYST Sept. 2020 3313-3324*

Aghaei, J., *see* Javidsharifi, M., *JSYST June 2020 2703-2712*

Aghdam, A., Editorial; *JSYST March 2020 7-8*

Aghdam, A., Editorial; *JSYST June 2020 1537*

Aghdam, A., Editorial; *JSYST Sept. 2020 3071*

Aghdam, A., Editorial; *JSYST Dec. 2020 4652*

Agrawal, H., and Asawa, K., Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation; *JSYST June 2020 2485-2496*

Ahamed, T.P.I., *see* S., N., *JSYST March 2020 1007-1014*

Ahmad, E., Alaslani, M., Dogar, F.R., and Shihada, B., Location-Aware, Context-Driven QoS for IoT Applications; *JSYST March 2020 232-243*

Ahmad, F., *see* Shariff, S.M., *JSYST June 2020 2748-2758*

Ahmad, W., Hasan, O., Awwad, F., Bastaki, N., and Hasan, S.R., Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving; *JSYST Dec. 2020 4820-4831*

Ahmadi, A., *see* Moghaddam, M.J.H., *JSYST Sept. 2020 3530-3538*

Ahmed, A., *see* Akram, T., *JSYST Sept. 2020 3475-3482*

Ahmed, M.H., *see* Othman, M.M., *JSYST March 2020 699-707*

Ahn, C.K., *see* He, W., *JSYST June 2020 1549-1557*

Ahn, C.K., *see* Zou, W., *JSYST Dec. 2020 4810-4819*

Ajib, W., *see* Chaieb, C., *JSYST Sept. 2020 3957-3967*

Akram, T., Awais, M., Naqvi, R., Ahmed, A., and Naeem, M., Multicriteria UAV Base Stations Placement for Disaster Management; *JSYST Sept. 2020 3475-3482*

Al Mhdawi, A.K., and Al-Raweshidy, H.S., A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System; *JSYST June 2020 2780-2790*

Al-Dhahir, N., *see* Mabrouk, A., *JSYST March 2020 665-668*

Al-Dhahir, N., *see* Gouissem, A., *JSYST June 2020 2133-2143*

Al-Dhahir, N., *see* Chen, P., *JSYST Sept. 2020 3801-3812*

Al-Dweik, A., *see* Al-Jarrah, M.A., *JSYST June 2020 2225-2236*

Al-Dweik, A., *see* Kalbat, F., *JSYST June 2020 2237-2248*

Al-Jarrah, M.A., Al-Dweik, A., Ikki, S.S., and Alsusa, E., Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection; *JSYST June 2020 2225-2236*

Al-Khatib, A., *see* Hiari, O., *JSYST March 2020 1435-1446*

Al-Raweshidy, H.S., *see* Yaseen, F.A., *JSYST June 2020 1670-1681*

Al-Raweshidy, H.S., *see* Al Mhdawi, A.K., *JSYST June 2020 2780-2790*

Al-Rizzo, H., *see* Al-Wahhamy, A., *JSYST March 2020 614-620*

AL-Tam, F., *see* Correia, N., *JSYST Dec. 2020 5096-5099*

Al-Wahhamy, A., Al-Rizzo, H., and Buris, N.E., Efficient Evaluation of Massive MIMO Channel Capacity; *JSYST March 2020 614-620*

Alabbasi, A., Roeland, D., and Cavdar, C., Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study; *JSYST March 2020 398-409*

Alam, M.S., *see* Shariff, S.M., *JSYST June 2020 2748-2758*

Alam, M.S., Selim, B., Kaddoum, G., and Agba, B.L., Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process; *JSYST Sept. 2020 4079-4088*

Alaslani, M., *see* Ahmad, E., *JSYST March 2020 232-243*

Aldarwbi, M., *see* Baroudi, U., *JSYST Sept. 2020 3093-3104*

Ali, I., *see* Aftab, M.A., *JSYST June 2020 2676-2683*

Ali, K., Nguyen, H.X., Vien, Q., Shah, P., and Raza, M., Deployment of Drone-Based Small Cells for Public Safety Communication System; *JSYST June 2020 2882-2891*

Allahdadi, K., Sadeghkhani, I., and Fani, B., Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform; *JSYST Dec. 2020 5172-5175*

Alleyne, M., *see* Sturgis, M., *JSYST March 2020 1427-1434*

Alphones, A., *see* Chen, C., *JSYST Sept. 2020 3202-3213*

AlShabi, M., and Elnady, A., Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid; *JSYST March 2020 971-982*

Alsusa, E., *see* Al-Jarrah, M.A., *JSYST June 2020 2225-2236*

Altunbas, I., *see* Yarkin, F., *JSYST March 2020 500-509*

Aman, M.N., *see* Mohammed, O.O., *JSYST March 2020 1230-1233*

Amin, R., *see* Rajamanickam, S., *JSYST June 2020 1972-1983*

Amira, A., *see* Zhai, X., *JSYST June 2020 1592-1601*

Amjady, N., *see* Dehghan, S., *JSYST Sept. 2020 4110-4118*
An, K., *see* Zhang, X., *JSYST June 2020 1909-1920*
An, K., *see* Yan, X., *JSYST Sept. 2020 3343-3350*
Andersson, M.R., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Anvari-Moghaddam, A., *see* Mirzaei, M.A., *JSYST Sept. 2020 3598-3608*
Anvari-Moghaddam, A., *see* Hemmati, M., *JSYST Dec. 2020 5340-5349*
Anwar, S., Yuen, C., Sun, H., Guan, Y.L., and Babar, Z., A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication; *JSYST Sept. 2020 3875-3884*
Aoi, S., *see* Kimura, H., *JSYST Sept. 2020 3451-3462*
Arapoglou, P., *see* Lyras, N.K., *JSYST Sept. 2020 3968-3976*
Arefi, A., *see* Shafiei, M., *JSYST Dec. 2020 5265-5273*
Aristidou, P., *see* Dehghan, S., *JSYST Sept. 2020 4110-4118*
Arnold, E.P., *see* Dori, D., *JSYST June 2020 1538-1548*
Asadi, H., *see* Qazani, M.R.C., *JSYST Dec. 2020 5073-5083*
Asano, Y., *see* Kimura, H., *JSYST Sept. 2020 3451-3462*
Asawa, K., *see* Agrawal, H., *JSYST June 2020 2485-2496*
Asemani, M.H., *see* Vafamand, N., *JSYST Sept. 2020 4025-4035*
Asghar, M.S.J., *see* Shariff, S.M., *JSYST June 2020 2748-2758*
Ashouri-Zadeh, A., *see* Hosseini, S.A., *JSYST March 2020 1125-1134*
Ashouri-Zadeh, A., *see* Toulabi, M., *JSYST June 2020 2615-2623*
Ashtiani, F., *see* Vaezi, K., *JSYST June 2020 2257-2268*
Ashtiani, F., *see* Javedankherad, M., *JSYST Sept. 2020 3129-3138*
Askarizadeh, M., *see* Mohammadi, Z., *JSYST Sept. 2020 3214-3224*
Asprou, M., *see* Zacharia, L., *JSYST March 2020 422-432*
Assi, C., *see* Kabir, M.E., *JSYST Sept. 2020 4221-4231*
Atazadegan, M.H., *see* Zarei, A., *JSYST June 2020 2813-2824*
Atmani, N., *see* Khanouche, M.E., *JSYST Sept. 2020 4155-4164*
Atrish, A., *see* Mukherjee, A., *JSYST March 2020 1325-1332*
Aujla, G.S., *see* Kaur, K., *JSYST March 2020 1195-1205*
Austin-Breneman, J., *see* Meluso, J., *JSYST Sept. 2020 3463-3474*
Avalos, A., *see* Djilali, L., *JSYST June 2020 2825-2836*
Awais, M., *see* Akram, T., *JSYST Sept. 2020 3475-3482*
Awwad, F., *see* Ahmad, W., *JSYST Dec. 2020 4820-4831*
Ayadi, R., Kammoun, I., and Siala, M., Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G; *JSYST March 2020 603-613*
Ayepah-Mensah, D., *see* Sun, G., *JSYST Dec. 2020 4694-4705*
Azam, F., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Azimi, S.M., and Hamzeh, M., Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability; *JSYST March 2020 1109-1116*
Azimi, S.M., and Hamzeh, M., Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids; *JSYST Dec. 2020 4718-4725*

B

Babaie, S., *see* Gharamaleki, M.M., *JSYST Dec. 2020 4883-4890*
Babar, Z., *see* Anwar, S., *JSYST Sept. 2020 3875-3884*
Babazadeh-Dizaji, R., and Hamzeh, M., Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids; *JSYST March 2020 1015-1023*
Baboli, P.T., *see* Mahzarnia, M., *JSYST Sept. 2020 4059-4070*
Babu, G.V.N.Y., and Sarkar, V., Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation; *JSYST Dec. 2020 5084-5095*
Babu P., N., *see* Kumar, V.N., *JSYST Sept. 2020 4308-4319*
Bachelor, G., Brusa, E., Ferretto, D., and Mitschke, A., Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts; *JSYST June 2020 1568-1579*
Baek, H., *see* Lee, J., *JSYST June 2020 3061-3064*
Baghaee, H.R., *see* Petrovic, I., *JSYST June 2020 2665-2675*
Bagheri, M., *see* Darabi, A., *JSYST March 2020 1171-1182*
Bagheri, M., *see* Abedinia, O., *JSYST Sept. 2020 4614-4625*
Bai, X., *see* Chan, R.Y., *JSYST March 2020 208-219*
Bai, X., *see* Lyu, Z., *JSYST Dec. 2020 5061-5072*
Bakirtzis, G., Simon, B.J., Collins, A.G., Fleming, C.H., and Elks, C.R., Data-Driven Vulnerability Exploration for Design Phase System Analysis; *JSYST Dec. 2020 4864-4873*
Baklouti, A., Nguyen, N., Mhenni, F., Choley, J., and Mlika, A., Dynamic Fault Tree Generation for Safety-Critical Systems Within a Systems Engineering Approach; *JSYST March 2020 1512-1522*
Bandung, Y., *see* Kurniawan, N.B., *JSYST Sept. 2020 3105-3116*
Banerjee, A., *see* Paul, A., *JSYST Sept. 2020 3791-3800*
Bangash, Y.A., Abbas, H., Iqbal, W., Khan, M.M.Z.M., Rauf, B., and Afzal, H., Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC; *JSYST Sept. 2020 4489-4499*
Bansal, R.C., *see* Lupangu, C., *JSYST Sept. 2020 4071-4078*
Bansal, Y., and Sodhi, R., PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS; *JSYST Sept. 2020 4567-4578*
Barbosa, J.L.V., *see* da Silva, J.M., *JSYST March 2020 1183-1194*
Barkallah, M., *see* Siala, H., *JSYST Sept. 2020 3977-3986*
Baroudi, U., *see* Belhaiza, S., *JSYST March 2020 1147-1158*
Baroudi, U., Aldarwbi, M., and Younis, M., Energy-Aware Connectivity Restoration Mechanism for Cyber-Physical Systems of Networked Sensors and Robots; *JSYST Sept. 2020 3093-3104*
Basar, E., *see* Yarkin, F., *JSYST March 2020 500-509*
Bashiri, M., *see* Sabouhi, H., *JSYST June 2020 2643-2652*
Bastaki, N., *see* Ahmad, W., *JSYST Dec. 2020 4820-4831*
Basturk, I., and Chen, Y., Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks; *JSYST Dec. 2020 5274-5283*
Basumallik, S., *see* Ma, R., *JSYST Sept. 2020 3558-3569*
Batinge, B., *see* Malisa, R., *JSYST March 2020 1523-1530*
Bauduin, J., *see* Liscouet-Hanke, S., *JSYST Dec. 2020 5441-5450*
Begriche, Y., *see* Hammi, B., *JSYST Sept. 2020 3440-3450*
Belanger, D., *see* Liu, C., *JSYST March 2020 1365-1374*
Belhaiza, S., Baroudi, U., and Elhallaoui, I., A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem; *JSYST March 2020 1147-1158*
Belkheiri, M., *see* Djilali, L., *JSYST June 2020 2825-2836*
Bellini, E., Coconea, L., and Nesi, P., A Functional Resonance Analysis Method Driven Resilience Quantification for Socio-Technical Systems; *JSYST March 2020 1234-1244*
Ben-Brahim, L., *see* Gouissem, A., *JSYST June 2020 2133-2143*
Benavidez, P., *see* Abdelmawgoud, A., *JSYST March 2020 1491-1502*
Benli, E., Motai, Y., and Rogers, J., Visual Perception for Multiple Human–Robot Interaction From Motion Behavior; *JSYST June 2020 2937-2948*
Bensaali, F., *see* Zhai, X., *JSYST June 2020 1592-1601*
Bhalja, B., *see* Rao, J.T., *JSYST Sept. 2020 3705-3716*
Bhalja, B.R., *see* Makwana, Y.M., *JSYST June 2020 2770-2779*
Bhamidi, L., and Sivasubramani, S., Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management; *JSYST June 2020 2624-2632*
Bhaskar, M.S., *see* Priyadarshi, N., *JSYST March 2020 1218-1229*
Bhaskar, M.S., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Bhattacharya, A., *see* Das, S., *JSYST Sept. 2020 4394-4401*
Bhiri, M.T., *see* Rouis, T.S., *JSYST June 2020 1647-1657*
Bian, R., *see* Xiong, H., *JSYST Sept. 2020 3744-3754*
Bian, Y., *see* Kasimu, A., *JSYST March 2020 1375-1383*
Bilal, M., and Pack, S., Secure Distribution of Protected Content in Information-Centric Networking; *JSYST June 2020 1921-1932*
Bilionis, I., *see* Safarkhani, S., *JSYST Sept. 2020 3277-3288*
Bishnoi, S.K., *see* Singh, P., *JSYST March 2020 880-888*
Blaabjerg, F., *see* Priyadarshi, N., *JSYST March 2020 1218-1229*
Blaabjerg, F., *see* Peyghami, S., *JSYST June 2020 2861-2872*
Blaabjerg, F., *see* Vafamand, N., *JSYST Sept. 2020 4025-4035*
Blaabjerg, F., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Boateng, G.O., *see* Sun, G., *JSYST Dec. 2020 4694-4705*
Bohara, V.A., *see* Shaikh, M.H.N., *JSYST Sept. 2020 3313-3324*
Bonthagorla, P.K., *see* Pendem, S.R., *JSYST March 2020 1046-1057*
Borky, J.M., *see* Nelson, T., *JSYST Sept. 2020 3844-3854*
Bose, A., *see* Poudel, S., *JSYST Sept. 2020 3506-3517*

Boudau, S., *see* Wu, Q., *JSYST Dec. 2020 4765-4776*
Boudjadar, J., *see* Gheisarnejad, M., *JSYST March 2020 1058-1068*
Braga, R.T.V., *see* Silva, R.d.A., *JSYST Sept. 2020 3609-3617*
Braun, T., *see* da Silva, J.M., *JSYST March 2020 1183-1194*
Brusa, E., *see* Bachelor, G., *JSYST June 2020 1568-1579*
Buris, N.E., *see* Al-Wahhamy, A., *JSYST March 2020 614-620*
Burton, A., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Butans, E., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*
Buyya, R., *see* Goudarzi, P., *JSYST March 2020 927-938*

C

Cabatac, M.T.A.M., *see* Hong, Y., *JSYST June 2020 2725-2735*
Cacialli, F., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Cai, Y., *see* He, Q., *JSYST June 2020 1874-1885*
Cai, Y., Santos, R.B., Givigi, S.N., and Fileti, A.M.F., A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks; *JSYST Sept. 2020 3072-3081*
Cai, Y., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*
Camponogara, A., Poor, H.V., and Ribeiro, M.V., PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses; *JSYST Dec. 2020 4901-4910*
Cao, J., *see* Xu, S., *JSYST June 2020 1740-1751*
Cao, P., *see* Li, D., *JSYST Dec. 2020 4726-4734*
Cao, R., Hao, L., Gao, Q., Deng, J., and Chen, J., Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net; *JSYST Dec. 2020 4684-4693*
Cao, S., *see* Chen, X., *JSYST Dec. 2020 5396-5406*
Cao, Y., *see* Wang, T., *JSYST March 2020 410-421*
Cao, Y., *see* Yang, J., *JSYST March 2020 172-183*
Cao, Y., *see* Li, P., *JSYST June 2020 2042-2053*
Cao, Z., *see* Pang, L., *JSYST June 2020 2965-2968*
Caputo, J., *see* Retiere, N., *JSYST June 2020 2736-2747*
Cardenas, A., *see* Guzman, C., *JSYST Sept. 2020 4262-4271*
Carrizosa, E., Marin, A., and Pelegrin, M., Spotting Key Members in Networks: Clustering-Embedded Eigenvector Centrality; *JSYST Sept. 2020 3916-3925*
Castillejo, P., *see* Chen, Y., *JSYST June 2020 2066-2077*
Catalao, J.P.S., *see* Javidsharifi, M., *JSYST June 2020 2703-2712*
Cavdar, C., *see* Alabbasi, A., *JSYST March 2020 398-409*
Cavdar, C., *see* Masoudi, M., *JSYST Dec. 2020 5100-5110*
Chae, J., *see* Jung, B., *JSYST June 2020 1852-1861*
Chai, R., Song, X., and Chen, Q., Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System; *JSYST Dec. 2020 5350-5361*
Chai, Y., and Zeng, X., Delay- and Interference-Aware Routing for Wireless Mesh Network; *JSYST Sept. 2020 4119-4130*
Chaibakhsh, A., *see* Kordestani, M., *JSYST Sept. 2020 3813-3824*
Chaieb, C., Mlika, Z., Abdelkefi, F., and Ajib, W., On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations; *JSYST Sept. 2020 3957-3967*
Chaitanya, B.K., Yadav, A., and Pazoki, M., An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators; *JSYST March 2020 870-879*
Chakrabarti, S., *see* Meghwani, A., *JSYST March 2020 1159-1170*
Challa, R., Zalyubovskiy, V.V., Raza, S.M., Choo, H., and De, A., Network Slice Admission Model: Tradeoff Between Monetization and Rejections; *JSYST March 2020 657-660*
Chan, K.Y., *see* Liu, Z., *JSYST June 2020 2557-2568*
Chan, R.Y., Sato-Shimokawara, E., Bai, X., Yukiharu, M., Kuo, S., and Chung, A., A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities; *JSYST March 2020 208-219*
Chand, S., *see* Kumar, M., *JSYST June 2020 2032-2041*
Chang, C., *see* Liu, M., *JSYST March 2020 582-591*
Chang, K., and Choi, Y., Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay; *JSYST March 2020 510-519*
Chang, K., and Lee, S., Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading; *JSYST Sept. 2020 4047-4058*
Chang, Q., *see* Wang, H., *JSYST March 2020 538-547*
Chang, Y., and Lai, Y., Campus Edge Computing Network Based on IoT Street Lighting Nodes; *JSYST March 2020 164-171*
Chao, H., *see* Zhang, C., *JSYST June 2020 1840-1851*
Chao, H., *see* Gan, W., *JSYST Sept. 2020 4442-4453*
Chatterjee, A., and Chatterjee, D., An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System; *JSYST Dec. 2020 4874-4882*
Chatterjee, D., *see* Chatterjee, A., *JSYST Dec. 2020 4874-4882*
Chatterjee, K., *see* Sandhya, K., *JSYST Dec. 2020 5160-5171*
Chatterjee, S., *see* Gomez, M.M., *JSYST March 2020 489-499*
Chattopadhyay, S., *see* Mukherjee, N., *JSYST Sept. 2020 4320-4328*
Chattopadhyaya, A., *see* Mukherjee, N., *JSYST Sept. 2020 4320-4328*
Chaturvedi, A., Tiwari, A., and Chaturvedi, S., SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning; *JSYST Sept. 2020 4007-4014*
Chaturvedi, K., and Rao, S., Distributed Elections Using Site-Push Majority Winner Monitoring; *JSYST June 2020 1682-1691*
Chaturvedi, S., *see* Chaturvedi, A., *JSYST Sept. 2020 4007-4014*
Chatzinotas, S., *see* Yan, X., *JSYST Sept. 2020 3343-3350*
Chau, L.H., *see* Hai, D.T., *JSYST June 2020 2358-2369*
Chaubey, V.K., *see* Rahman, Z., *JSYST Sept. 2020 4036-4046*
Chaudhuri, N.R., *see* Yogarathinam, A., *JSYST March 2020 939-949*
Chavhan, S., Gupta, D., N, C.B., Khanna, A., and Rodrigues, J.J.P.C., Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique; *JSYST Dec. 2020 5233-5244*
Chen, A., *see* Clemente, J., *JSYST March 2020 1277-1284*
Chen, C., *see* Li, X., *JSYST March 2020 39-50*
Chen, C., *see* Zhang, C., *JSYST June 2020 1840-1851*
Chen, C., Ding, Y., Wang, Z., Zhao, J., Guo, B., and Zhang, D., VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing; *JSYST June 2020 1635-1646*
Chen, C., Yang, H., Du, P., Zhong, W., Alphones, A., Yang, Y., and Deng, X., User-Centric MIMO Techniques for Indoor Visible Light Communication Systems; *JSYST Sept. 2020 3202-3213*
Chen, C., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Chen, D., Zheng, Y., Chen, Y., and Lee, K., Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons; *JSYST June 2020 2411-2420*
Chen, D., *see* Tao, X., *JSYST Sept. 2020 3256-3266*
Chen, H., *see* Liu, Y., *JSYST June 2020 2121-2132*
Chen, H., Han, Q., Jajodia, S., Lindelauf, R., Subrahmanian, V.S., and Xiong, Y., Disclose or Exploit? A Game-Theoretic Approach to Strategic Decision Making in Cyber-Warfare; *JSYST Sept. 2020 3779-3790*
Chen, H., *see* Jiang, Y., *JSYST Sept. 2020 3717-3728*
Chen, J., Wei, L., U., L., and Hao, F., A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes; *JSYST March 2020 244-252*
Chen, J., Wang, C., Wu, E.H., and Chou, C., Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation; *JSYST Sept. 2020 3570-3581*
Chen, J., *see* Cao, R., *JSYST Dec. 2020 4684-4693*
Chen, L., Yang, A., Hu, H., and Naeem, W., RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar; *JSYST Sept. 2020 3301-3312*
Chen, M., *see* Zhai, X., *JSYST June 2020 1592-1601*
Chen, P., Ouyang, J., Zhu, W., Lin, M., Shafie, A.E., and Al-Dhahir, N., Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks; *JSYST Sept. 2020 3801-3812*
Chen, Q., *see* Chai, R., *JSYST Dec. 2020 5350-5361*
Chen, Q., *see* Dai, C., *JSYST Dec. 2020 5025-5036*
Chen, T., Sun, L., Ling, K., and Ho, W.K., Robust Power System State Estimation Using *t*-Distribution Noise Model; *JSYST March 2020 771-781*
Chen, T., *see* Sun, L., *JSYST June 2020 2801-2812*

Chen, W., *see* Yang, S., *JSYST March 2020 1447-1456*
Chen, X., Leung, K., and Lam, A.Y.S., Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis; *JSYST March 2020 1034-1045*
Chen, X., *see* Pang, L., *JSYST June 2020 2965-2968*
Chen, X., Gong, F., and Ding, H., Partial-Fixed Interference Alignment in Multiuser Interference Channel; *JSYST June 2020 2303-2310*
Chen, X., Cheng, L., Liu, C., Liu, Q., Liu, J., Mao, Y., and Murphy, J., A WOA-Based Optimization Approach for Task Scheduling in Cloud Computing Systems; *JSYST Sept. 2020 3117-3128*
Chen, X., Wei, F., Cao, S., Soh, C.B., and Tseng, K.J., PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies; *JSYST Dec. 2020 5396-5406*
Chen, Y., *see* Zhan, Y., *JSYST March 2020 592-602*
Chen, Y., *see* Zhou, Y., *JSYST March 2020 333-342*
Chen, Y., *see* Zhang, D., *JSYST March 2020 661-664*
Chen, Y., Martinez-Ortega, J., Castillejo, P., and Lopez, L., An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid; *JSYST June 2020 2066-2077*
Chen, Y., Li, R., Zhao, Z., and Zhang, H., Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics; *JSYST June 2020 2202-2213*
Chen, Y., *see* Chen, D., *JSYST June 2020 2411-2420*
Chen, Y., *see* Fan, B., *JSYST June 2020 2097-2108*
Chen, Y., *see* Tseng, S., *JSYST Sept. 2020 3351-3359*
Chen, Y., *see* Basturk, I., *JSYST Dec. 2020 5274-5283*
Chen, Z., Zou, H., Yang, J., Jiang, H., and Xie, L., WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM; *JSYST June 2020 3001-3010*
Chen, Z., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Cheng, C., *see* Wang, J.V., *JSYST March 2020 152-163*
Cheng, C., *see* Dai, J., *JSYST June 2020 2421-2431*
Cheng, C., *see* Dai, J., *JSYST Dec. 2020 4832-4841*
Cheng, G., *see* Xia, J., *JSYST Sept. 2020 4296-4307*
Cheng, L., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Cheng, W., *see* Liu, D., *JSYST June 2020 2323-2334*
Cherifi, A., *see* Khanouche, M.E., *JSYST Sept. 2020 4155-4164*
Chi, K., *see* Fan, X., *JSYST Dec. 2020 4943-4954*
Chiu, W., Manoharan, S.H., and Huang, T., Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering; *JSYST June 2020 1580-1591*
Cho, D., *see* Sim, Y., *JSYST Dec. 2020 5245-5252*
Cho, H., *see* Zhang, C., *JSYST June 2020 1840-1851*
Cho, J., *see* Ko, B., *JSYST Sept. 2020 4591-4601*
Choi, H., *see* Lee, K., *JSYST March 2020 649-652*
Choi, H., *see* Lee, K., *JSYST Sept. 2020 4217-4220*
Choi, J., *see* Saad, M., *JSYST March 2020 321-332*
Choi, K., *see* Ko, B., *JSYST Sept. 2020 4591-4601*
Choi, Y., *see* Chang, K., *JSYST March 2020 510-519*
Choley, J., *see* Baklouti, A., *JSYST March 2020 1512-1522*
Choley, J., *see* Siala, H., *JSYST Sept. 2020 3977-3986*
Choo, H., *see* Challa, R., *JSYST March 2020 657-660*
Choo, K.R., *see* Jia, X., *JSYST March 2020 560-571*
Choo, K.R., *see* Kaur, K., *JSYST March 2020 1195-1205*
Choo, K.R., *see* Feng, Q., *JSYST June 2020 1820-1829*
Choo, K.R., *see* Zhang, Y., *JSYST Dec. 2020 5320-5328*
Chou, C., *see* Chen, J., *JSYST Sept. 2020 3570-3581*
Chowdhury, B., *see* Mitra, B., *JSYST March 2020 1069-1079*
Christophorou, C., *see* Ioannou, I., *JSYST Sept. 2020 4232-4241*
Chuah, T.C., and Lee, Y.L., QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks; *JSYST June 2020 2175-2186*
Chun, C., *see* Kang, J., *JSYST Sept. 2020 4340-4343*
Chun, C., *see* Kang, J., *JSYST Sept. 2020 3740-3743*
Chun, C., *see* Kang, J., *JSYST Sept. 2020 3414-3417*
Chung, A., *see* Chan, R.Y., *JSYST March 2020 208-219*
Chvojka, P., Haigh, P.A., Minotto, A., Burton, A., Murto, P., Genene, Z., Mammo, W., Andersson, M.R., Wang, E., Ghassemlooy, Z., Cacialli, F., Darwazeh, I., and Zvanovec, S., Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications; *JSYST June 2020 2544-2550*
Clarke, K., *see* Jurado-Lasso, F.F., *JSYST June 2020 2335-2346*
Clarke, K., *see* Jurado-Lasso, F.F., *JSYST Dec. 2020 4653-4662*
Clemente, J., Li, F., Valero, M., Chen, A., and Song, W., ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy; *JSYST March 2020 1277-1284*
Clemente, J., *see* Li, F., *JSYST Sept. 2020 3383-3389*
Coconea, L., *see* Bellini, E., *JSYST March 2020 1234-1244*
Colen, G.R., *see* De M. B. A. Dib, L., *JSYST June 2020 2164-2174*
Colen, G.R., and Ribeiro, M.V., A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform; *JSYST Dec. 2020 5284-5295*
Colletti, R.A., Qamar, A., Nuesch, S.P., and Paredis, C.J.J., Best Practice Patterns for Variant Modeling of Activities in Model-Based Systems Engineering; *JSYST Sept. 2020 4165-4175*
Collings, I.B., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Collins, A.G., *see* Bakirtzis, G., *JSYST Dec. 2020 4864-4873*
Condino, M., *see* McDonald, R.T., *JSYST Sept. 2020 3755-3766*
Confrey, J., Etemadi, A.H., Stuban, S.M.F., and Eveleigh, T.J., Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation; *JSYST March 2020 1135-1146*
Correia, N., and AL-Tam, F., Flow Setup Aware Controller Placement in Distributed Software-Defined Networking; *JSYST Dec. 2020 5096-5099*
Costa, I., *see* da Silva, J.M., *JSYST March 2020 1183-1194*
Coveney, P.V., *see* Zhai, X., *JSYST June 2020 1592-1601*
Cui, J., *see* Ding, R., *JSYST March 2020 633-644*
Cui, J., *see* Wang, Y., *JSYST Dec. 2020 5373-5383*
Cui, W., *see* Yang, S., *JSYST March 2020 1447-1456*
Cui, Y., *see* Zhang, L., *JSYST March 2020 387-397*

D

da Silva, J.M., Costa, I., Santos, J.V.C.d., Barbosa, J.L.V., Braun, T., and Pessin, G., Toward a More Reliable System for Contingency Selection in Static Security Analysis of Electric Power Systems; *JSYST March 2020 1183-1194*
Dai, C., Luo, J., Fu, S., Wu, J., and Chen, Q., Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks; *JSYST Dec. 2020 5025-5036*
Dai, J., Zhang, M., Wang, J., Shi, J., Song, R., and Cheng, C., Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks; *JSYST June 2020 2421-2431*
Dai, J., Liu, J., Wang, J., Song, R., and Cheng, C., Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels; *JSYST Dec. 2020 4832-4841*
Dai, R., *see* Manshadi, S.D., *JSYST March 2020 803-812*
Dai, Z., Wang, J., Zhou, H., and Huang, H., A Review on the Recent Development in the Design and Optimization of Magnetic Coupling Mechanism of Wireless Power Transmission; *JSYST Sept. 2020 4368-4381*
Dai, Z., *see* Xu, X., *JSYST Sept. 2020 3399-3409*
Dakua, S., *see* Zhai, X., *JSYST June 2020 1592-1601*
Dao, V., *see* Vo, V.N., *JSYST Dec. 2020 4955-4966*
Darabi, A., Bagheri, M., and Gharehpetian, G.B., Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm; *JSYST March 2020 1171-1182*
Darak, S.J., *see* Kumar, R., *JSYST June 2020 2085-2096*
Darak, S.J., *see* Joshi, H., *JSYST Dec. 2020 4931-4942*
Darwazeh, I., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Das, D., *see* Limbasiya, T., *JSYST March 2020 520-529*
Das, P., Shuvro, R.A., Rahnamay-Naeini, M., Povinelli, K., Ghani, N., and Hayat, M.M., A Theory for Optimizing Insecure Internetwork Connections; *JSYST Dec. 2020 4842-4853*
Das, S., *see* Fowler, K.R., *JSYST March 2020 1309-1316*
Das, S., and Bhattacharya, A., Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels; *JSYST Sept. 2020 4394-4401*
Das, S.S., *see* Goswami, D., *JSYST Dec. 2020 5199-5209*

Dasgupta, M., *see* Sowjanya, K., *JSYST June 2020 2154-2163*
DaSilva, L., *see* Gomez, M.M., *JSYST March 2020 489-499*
De, A., *see* Challa, R., *JSYST March 2020 657-660*
De, A., *see* Mukherjee, R., *JSYST Sept. 2020 3836-3843*
De, D., *see* Mukherjee, A., *JSYST March 2020 353-362*
De, P., Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio; *JSYST Sept. 2020 4272-4283*
De L. Filomeno, M., *see* De M. B. A. Dib, L., *JSYST June 2020 2164-2174*
de la Llera, J.C., *see* Espinoza, S., *JSYST June 2020 2837-2848*
De M. B. A. Dib, L., Colen, G.R., De L. Filomeno, M., and Ribeiro, M.V., Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems; *JSYST June 2020 2164-2174*
de Silva, C.W., *see* Li, T., *JSYST June 2020 1692-1703*
Deb, P., *see* Mukherjee, A., *JSYST March 2020 353-362*
Debbarma, S., *see* Roy, S.D., *JSYST June 2020 2023-2031*
Dehghan, S., Amjady, N., and Aristidou, P., A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies; *JSYST Sept. 2020 4110-4118*
Dehghanian, P., *see* Pourahmadi, F., *JSYST March 2020 718-728*
Delli Priscoli, F., *see* Liberati, F., *JSYST Sept. 2020 3586-3597*
Demeulemeester, E., *see* Wang, J., *JSYST Dec. 2020 5451-5462*
Deng, J., *see* Cao, R., *JSYST Dec. 2020 4684-4693*
Deng, L., Ning, B., and Jiang, Y., A Lightweight Certificateless Aggregation Signature Scheme With Provably Security in the Standard Model; *JSYST Sept. 2020 4242-4251*
Deng, L., Anonymous Aggregate Encryption Scheme for Industrial Internet of Things; *JSYST Sept. 2020 3999-4006*
Deng, W., *see* Huang, K., *JSYST Sept. 2020 4329-4339*
Deng, X., *see* Chen, C., *JSYST Sept. 2020 3202-3213*
Dey, J., *see* Kumar, N., *JSYST March 2020 909-915*
Dhaka, K., *see* Kumar, P., *JSYST June 2020 2497-2507*
Dhok, S.B., *see* Prasanna, A.L., *JSYST June 2020 2293-2302*
Dhok, S.B., *see* Yadav, S., *JSYST June 2020 2585-2588*
Dhurandher, S.K., *see* Gupta, N., *JSYST June 2020 2400-2410*
Di Giorgio, A., *see* Liberati, F., *JSYST Sept. 2020 3586-3597*
Di Maio, F., Mascherona, R., and Zio, E., Risk Analysis of Cyber-Physical Systems by GTST-MLD; *JSYST March 2020 1333-1340*
Dias, D.M., *see* Pereira, C.S., *JSYST Sept. 2020 3926-3937*
Ding, H., *see* Chen, X., *JSYST June 2020 2303-2310*
Ding, R., Xu, Y., Cui, J., and Zhong, H., A Public Auditing Protocol for Cloud Storage System With Intrusion-Resilience; *JSYST March 2020 633-644*
Ding, Y., *see* Chen, C., *JSYST June 2020 1635-1646*
Dinh, T.H., *see* Hoang, V.T., *JSYST June 2020 2925-2936*
Djilali, L., Sanchez, E.N., Ornelas-Tellez, F., Avalos, A., and Belkheiri, M., Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control; *JSYST June 2020 2825-2836*
Doan, S., Yeh, H., and Yang, Y., Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage; *JSYST March 2020 889-899*
Doan, S., *see* Yang, Y., *JSYST March 2020 852-861*
Doan, S.H., *see* Yang, Y., *JSYST March 2020 689-698*
Doan, S.H., *see* Yang, Y., *JSYST March 2020 842-851*
Dogar, F.R., *see* Ahmad, E., *JSYST March 2020 232-243*
Dong, G., Li, R., Jiang, J., Wu, H., and McClure, S.C., Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms; *JSYST Sept. 2020 3653-3664*
Doostmohammadian, M., Rabiee, H.R., and Khan, U.A., Cyber-Social Systems: Modeling, Inference, and Optimal Design; *JSYST March 2020 73-83*
Doostmohammadian, M., Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification; *JSYST Sept. 2020 4209-4216*
Dori, D., Sillitto, H., Griego, R.M., McKinney, D., Arnold, E.P., Godfrey, P., Martin, J., Jackson, S., and Krob, D., System Definition, System Worldviews, and Systemness Characteristics; *JSYST June 2020 1538-1548*
Doroudi, A., *see* Sabouhi, H., *JSYST June 2020 2643-2652*
Dou, C., *see* Zhang, B., *JSYST June 2020 2849-2860*
Dragicevic, T., *see* Vafamand, N., *JSYST Sept. 2020 4025-4035*
Drayer, E., and Routtenberg, T., Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing; *JSYST June 2020 1886-1896*
Du, C., Gao, S., Jia, N., Kong, D., Jiang, J., Tian, G., Su, Y., Wang, Q., and Li, C., A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network; *JSYST Sept. 2020 4101-4109*
Du, P., *see* Chen, C., *JSYST Sept. 2020 3202-3213*
Du, Y., *see* Xing, L., *JSYST Sept. 2020 4252-4261*
Du, Z., *see* Xiong, H., *JSYST Sept. 2020 3744-3754*
Dubey, A., *see* Krishnamoorthy, G., *JSYST June 2020 2633-2642*
Dubey, A., *see* Poudel, S., *JSYST Sept. 2020 3506-3517*
Dung, L.T., *see* Van Nguyen, L., *JSYST Dec. 2020 4777-4785*
Durad, M.H., *see* Imran, M., *JSYST June 2020 1933-1944*
Dyer, S.A., *see* Fowler, K.R., *JSYST March 2020 1317-1324*
Dyer, S.A., *see* Fowler, K.R., *JSYST March 2020 1309-1316*

E

E.A., J., *see* S., N., *JSYST March 2020 1007-1014*
Ebrahim, M.A., Wadie, F., and Abd-Allah, M.A., An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks; *JSYST Sept. 2020 3893-3903*
Efrem, C.N., *see* Lyras, N.K., *JSYST Sept. 2020 3968-3976*
Eftekharnejad, S., *see* Ma, R., *JSYST Sept. 2020 3558-3569*
El-Mashed, M.G., Optimizing Design Parameters for Relay-Aided Massive MIMO Systems; *JSYST June 2020 2249-2256*
El-Saadany, E.F., *see* Saleh, K.A., *JSYST Sept. 2020 4284-4295*
El-Taweel, N.A., Farag, H.E.Z., and Mohamed, M., Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems; *JSYST March 2020 738-748*
Eldar, Y.C., *see* Gong, T., *JSYST Dec. 2020 5296-5307*
Elhallaoui, I., *see* Belhaiza, S., *JSYST March 2020 1147-1158*
Elks, C.R., *see* Bakirtzis, G., *JSYST Dec. 2020 4864-4873*
Elnady, A., *see* AlShabi, M., *JSYST March 2020 971-982*
Escribano, F.J., *see* Tarable, A., *JSYST June 2020 2214-2224*
Esfahani, S.S., *see* Zhai, X., *JSYST June 2020 1592-1601*
Espinoza, S., Poulos, A., Rudnick, H., de la Llera, J.C., Panteli, M., and Mancarella, P., Risk and Resilience Assessment With Component Criticality Ranking of Electric Power Systems Subject to Earthquakes; *JSYST June 2020 2837-2848*
Etemadi, A.H., *see* Confrey, J., *JSYST March 2020 1135-1146*
Eveleigh, T.J., *see* Confrey, J., *JSYST March 2020 1135-1146*
Evin, E., and Uluda, Y., Bioanalytical Device Design With Model-Based Systems Engineering Tools; *JSYST Sept. 2020 3139-3149*

F

Fadoul, M.M., and Leow, C.Y., Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks; *JSYST June 2020 2392-2399*
Fan, B., He, Z., Tian, H., Kong, D., and Chen, Y., Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications; *JSYST June 2020 2097-2108*
Fan, C., and Mostafavi, A., Metanetwork Framework for Performance Analysis of Disaster Management System-of-Systems; *JSYST March 2020 1265-1276*
Fan, P., *see* Jiang, R., *JSYST March 2020 1206-1217*
Fan, X., Wang, S., Wang, Y., Xu, J., and Chi, K., Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks; *JSYST Dec. 2020 4943-4954*
Fan, Y., *see* Lyu, Z., *JSYST Sept. 2020 3518-3529*
Fang, C., *see* Wang, Z., *JSYST June 2020 2913-2924*
Fang, H., *see* Tseng, S., *JSYST Sept. 2020 3351-3359*
Fang, S., Fang, Y., Wang, H., and Liu, L., Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships; *JSYST Dec. 2020 4754-4764*
Fang, Y., *see* Xu, C., *JSYST June 2020 2443-2454*
Fang, Y., *see* Fang, S., *JSYST Dec. 2020 4754-4764*
Fang, Z., *see* Wang, Z., *JSYST Sept. 2020 4188-4196*

Fani, B., *see* Allahdadi, K., *JSYST Dec. 2020 5172-5175*
Farag, H.E.Z., *see* El-Taweel, N.A., *JSYST March 2020 738-748*
Farkhondehmaal, F., and Salado, A., Efficient Population of the Verification Tradespace Using Bayesian Inference; *JSYST Sept. 2020 3225-3232*
Fatemi, S.S., and Samet, H., Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time; *JSYST March 2020 950-959*
Fattouche, M., A Novel Communication System of High Capacity; *JSYST Sept. 2020 4197-4208*
Fayad, A., *see* Hammi, B., *JSYST Sept. 2020 3440-3450*
Fazel, M.S., *see* Jafari, R., *JSYST June 2020 2109-2120*
Feng, Q., He, D., Wang, H., Kumar, N., and Choo, K.R., White-Box Implementation of Shamir's Identity-Based Signature Scheme; *JSYST June 2020 1820-1829*
Fernandez, E., *see* Lahon, R., *JSYST March 2020 1098-1108*
Fernandez, E., *see* Mahmud, K., *JSYST Sept. 2020 3641-3652*
Ferreira, A., *see* Fruchard, M., *JSYST June 2020 2892-2900*
Ferretto, D., *see* Bachelor, G., *JSYST June 2020 1568-1579*
Ferris, T.L.J., *see* Abdul Rahim, N.B., *JSYST March 2020 1257-1264*
Figueiredo, K., *see* Kohler, M., *JSYST Dec. 2020 5111-5120*
Fileti, A.M.F., *see* Cai, Y., *JSYST Sept. 2020 3072-3081*
Fillingim, K.B., Shapiro, H., Paredis, C.J.J., and Fu, K., Process Heuristics: Extraction, Analysis, and Repository Considerations; *JSYST Dec. 2020 5148-5159*
Firdaus, A., and Mishra, S., Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems; *JSYST March 2020 1024-1033*
Fleming, C.H., *see* Bakirtzis, G., *JSYST Dec. 2020 4864-4873*
Fotuhi-Firuzabad, M., *see* Sabouhi, H., *JSYST June 2020 2643-2652*
Fotuhi-Firuzabad, M., *see* Peyghami, S., *JSYST June 2020 2861-2872*
Fourati, L.C., *see* Hentati, A.I., *JSYST June 2020 2969-2979*
Fowler, K.R., and Dyer, S.A., A Model for the Build-Versus-Buy Decision in Developing Embedded Systems; *JSYST March 2020 1317-1324*
Fowler, K.R., Das, S., and Dyer, S.A., A Study of the Build-Versus-Buy Decision in Developing Embedded Systems; *JSYST March 2020 1309-1316*
Fruchard, M., Sadelli, L., and Ferreira, A., Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System; *JSYST June 2020 2892-2900*
Fu, K., *see* Fillingim, K.B., *JSYST Dec. 2020 5148-5159*
Fu, S., *see* Dai, C., *JSYST Dec. 2020 5025-5036*
Fu, Y., and He, Z., Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks; *JSYST June 2020 1764-1775*
Fu, Y., *see* Zhou, R., *JSYST Dec. 2020 4919-4930*

G

Gabbar, H.A., Othman, A.M., Pino, F., and Repetto, M., Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS); *JSYST March 2020 824-831*
Galavani, S., *see* Moradi-Dalvand, M., *JSYST June 2020 2873-2881*
Gan, D., *see* Shen, D., *JSYST Sept. 2020 4500-4514*
Gan, W., Lin, J.C., Chao, H., Vasilakos, A.V., and Yu, P.S., Utility-Driven Data Analytics on Uncertain Data; *JSYST Sept. 2020 4442-4453*
Gandoman, F.H., *see* Moghaddam, M.J.H., *JSYST Sept. 2020 3530-3538*
Ganganath, N., *see* Wang, J.V., *JSYST March 2020 152-163*
Gao, C., *see* Li, J., *JSYST March 2020 433-444*
Gao, D., Guo, Q., Tong, J., Wu, N., Xi, J., and Yu, Y., Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems; *JSYST Dec. 2020 4674-4683*
Gao, Q., *see* Cao, R., *JSYST Dec. 2020 4684-4693*
Gao, S., *see* Zang, T., *JSYST March 2020 572-581*
Gao, S., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Gao, X., *see* Yang, D., *JSYST Sept. 2020 4477-4488*
Gao, X., Peng, M., Tse, C.K., and Zhang, H., A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems; *JSYST Sept. 2020 4626-4637*
Gao, Y., *see* Wang, Z., *JSYST June 2020 2913-2924*
Garg, P., *see* Jani, M., *JSYST March 2020 469-476*
Garg, S., *see* Kaur, K., *JSYST March 2020 1195-1205*
Garzaniti, N., Golkar, A., and Maggiore, P., Additive Manufacturing Evaluation Tool for Design Studies; *JSYST Sept. 2020 4382-4393*
Gastli, A., *see* Gouissem, A., *JSYST June 2020 2133-2143*
Gazis, E.N., *see* Adamidi, E.S., *JSYST March 2020 1384-1394*
Ge, J., *see* Zhang, C., *JSYST June 2020 2192-2201*
Genene, Z., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Ghadimi, N., *see* Abedinia, O., *JSYST Sept. 2020 4614-4625*
Ghanbari, T., *see* Jarrahi, M.A., *JSYST Sept. 2020 3987-3998*
Ghani, N., *see* Das, P., *JSYST Dec. 2020 4842-4853*
Gharamaleki, M.M., and Babaie, S., A New Distributed Fault Detection Method for Wireless Sensor Networks; *JSYST Dec. 2020 4883-4890*
Gharehpetian, G.B., *see* Zolfaghari, M., *JSYST March 2020 1117-1124*
Gharehpetian, G.B., *see* Darabi, A., *JSYST March 2020 1171-1182*
Gharehpetian, G.B., *see* Khodadoost Arani, A.A., *JSYST March 2020 1080-1087*
Ghassemi, A., *see* Goudarzi, P., *JSYST March 2020 927-938*
Ghassemlooy, Z., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Ghazzai, H., *see* Lucic, M.C., *JSYST Dec. 2020 4786-4797*
Gheisarnejad, M., Mohammadi-Moghadam, H., Boudjadar, J., and Khooban, M.H., Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG; *JSYST March 2020 1058-1068*
Ghose, T., *see* Sandhya, K., *JSYST Dec. 2020 5160-5171*
Ghosh, J., and Jayakody, D.N.K., An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme; *JSYST March 2020 645-648*
Ghosh, S., *see* Manohar, M., *JSYST Sept. 2020 3430-3439*
Giuseppi, A., *see* Liberati, F., *JSYST Sept. 2020 3586-3597*
Givigi, S.N., *see* Cai, Y., *JSYST Sept. 2020 3072-3081*
Glavas, H., *see* Petrovic, I., *JSYST June 2020 2665-2675*
Godfrey, P., *see* Dori, D., *JSYST June 2020 1538-1548*
Gokaraju, R., *see* Meghwani, A., *JSYST March 2020 1159-1170*
Gokaraju, R., *see* Makwana, Y.M., *JSYST June 2020 2770-2779*
Golestaneh, F., *see* Shafiei, M., *JSYST Dec. 2020 5265-5273*
Golkar, A., Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions; *JSYST June 2020 1558-1567*
Golkar, A., *see* Garzaniti, N., *JSYST Sept. 2020 4382-4393*
Gomez, M.M., Chatterjee, S., Abdel-Rahman, M.J., MacKenzie, A.B., Weiss, M.B.H., and DaSilva, L., Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization; *JSYST March 2020 489-499*
Gong, F., *see* Chen, X., *JSYST June 2020 2303-2310*
Gong, F., *see* Zhang, C., *JSYST June 2020 2192-2201*
Gong, T., Shlezinger, N., Ioushua, S.S., Namer, M., Yang, Z., and Eldar, Y.C., RF Chain Reduction for MIMO Systems: A Hardware Prototype; *JSYST Dec. 2020 5296-5307*
Gong, Z., *see* Zhou, R., *JSYST June 2020 2990-3000*
Gong, Z., *see* Zhou, R., *JSYST Dec. 2020 4919-4930*
Gooi, H.B., *see* Shafiei, M., *JSYST Dec. 2020 5265-5273*
Gopakumar, P., *see* Pal, D., *JSYST March 2020 862-869*
Gopalswamy, S., *see* Shangguan, L., *JSYST March 2020 1457-1467*
Gope, P., and Sikdar, B., An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids; *JSYST March 2020 343-352*
Goswami, D., and Das, S.S., Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA; *JSYST Dec. 2020 5199-5209*
Goudarzi, P., Ghassemi, A., Mirsarraf, M.R., and Buyya, R., Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management; *JSYST March 2020 927-938*
Gouissem, A., Hamila, R., Al-Dhahir, N., Ben-Brahim, L., and Gastli, A., Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers; *JSYST June 2020 2133-2143*
Gourisetti, S.N.G., Mylrea, M., and Patangia, H., Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis; *JSYST June 2020 1897-1908*
Gouyon, D., *see* Wu, Q., *JSYST Dec. 2020 4765-4776*

Gray, J., *see* Meng, Z., *JSYST March 2020 113-123*
Griego, R.M., *see* Dori, D., *JSYST June 2020 1538-1548*
Gu, C., *see* Wang, H., *JSYST June 2020 2684-2693*
Gu, C., *see* Yan, X., *JSYST June 2020 2694-2702*
Gu, T., *see* Xu, X., *JSYST Sept. 2020 3399-3409*
Guan, P., *see* Pang, L., *JSYST June 2020 2965-2968*
Guan, X., *see* Liu, Z., *JSYST June 2020 2557-2568*
Guan, X., *see* Luo, X., *JSYST June 2020 2901-2912*
Guan, X., *see* Wang, X., *JSYST Sept. 2020 4454-4465*
Guan, Y.L., *see* Anwar, S., *JSYST Sept. 2020 3875-3884*
Guerrero, J.M., *see* Tan, S., *JSYST Dec. 2020 5329-5339*
Gui, L., He, B., Xiao, F., and Shu, F., Resolution Limit of Positioning Error for Range-Free Localization Schemes; *JSYST June 2020 2980-2989*
Gui, L., Zhou, Y., Shu, F., Zhou, H., Zhou, X., Li, J., and Wang, J., Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks; *JSYST Sept. 2020 3150-3160*
Guimaraes, H.N., *see* Leles, M.C.R., *JSYST March 2020 1468-1478*
Guo, B., *see* Chen, C., *JSYST June 2020 1635-1646*
Guo, D., *see* Wang, K., *JSYST June 2020 1862-1873*
Guo, D., *see* Zhang, X., *JSYST June 2020 1909-1920*
Guo, D., *see* Xia, J., *JSYST Sept. 2020 4296-4307*
Guo, D., *see* Yan, Y., *JSYST Sept. 2020 3233-3244*
Guo, N., *see* Zhang, C., *JSYST June 2020 2192-2201*
Guo, Q., *see* Sun, M., *JSYST June 2020 2432-2442*
Guo, Q., *see* Gao, D., *JSYST Dec. 2020 4674-4683*
Guo, S., *see* Wang, Z., *JSYST June 2020 2913-2924*
Guo, S., Zhou, X., and Zhou, X., Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks; *JSYST Sept. 2020 4131-4142*
Guo, W., *see* Moutsinas, G., *JSYST June 2020 2551-2556*
Guo, Y., *see* Xie, Y., *JSYST March 2020 1245-1256*
Guo, Z., Liu, S., and Zhang, Z., Traffic Control for RDMA-Enabled Data Center Networks: A Survey; *JSYST March 2020 677-688*
Gupta, A., *see* Jani, M., *JSYST March 2020 469-476*
Gupta, A., *see* Jain, P., *JSYST June 2020 2382-2391*
Gupta, C.P., *see* Lahon, R., *JSYST March 2020 1098-1108*
Gupta, D., *see* Chavhan, S., *JSYST Dec. 2020 5233-5244*
Gupta, N., Dhurandher, S.K., and Sehgal, A., A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks; *JSYST June 2020 2400-2410*
Gururaj, M.V., and Padhy, N.P., An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System; *JSYST Dec. 2020 4891-4900*
Guzman, C., Cardenas, A., and Agbossou, K., Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management; *JSYST Sept. 2020 4262-4271*

H

Ha, D., *see* Tran, D., *JSYST March 2020 253-264*
Ha, D.T., *see* Retiere, N., *JSYST June 2020 2736-2747*
Ha, Q.P., *see* Hoang, V.T., *JSYST June 2020 2925-2936*
Haddar, M., *see* Siala, H., *JSYST Sept. 2020 3977-3986*
Hai, D.T., Chau, L.H., and Hung, N.T., A Priority-Based Multiobjective Design for Routing, Spectrum, and Network Coding Assignment Problem in Network-Coding-Enabled Elastic Optical Networks; *JSYST June 2020 2358-2369*
Haigh, P.A., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Hailat, T.F., *see* Salameh, H.A.B., *JSYST March 2020 84-92*
Hamdi, N., *see* Mabrouk, A., *JSYST March 2020 665-668*
Hamila, R., *see* Gouissem, A., *JSYST June 2020 2133-2143*
Hammi, B., Fayad, A., Khatoun, R., Zeadally, S., and Begriche, Y., A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT); *JSYST Sept. 2020 3440-3450*
Hamzeh, M., *see* Azimi, S.M., *JSYST March 2020 1109-1116*
Hamzeh, M., *see* Babazadeh-Dizaji, R., *JSYST March 2020 1015-1023*
Hamzeh, M., *see* Azimi, S.M., *JSYST Dec. 2020 4718-4725*
Han, D.S., *see* Sarker, M.A.L., *JSYST Sept. 2020 3582-3585*
Han, J., *see* Yang, T., *JSYST June 2020 3057-3060*
Han, Q., *see* Chen, H., *JSYST Sept. 2020 3779-3790*
Han, R., *see* Tan, S., *JSYST Dec. 2020 5329-5339*
Han, S., *see* Li, J., *JSYST March 2020 433-444*
Han, W., *see* Liu, J., *JSYST March 2020 1503-1511*
Han, W., *see* Liu, J., *JSYST June 2020 3027-3038*
Han, W., *see* Liu, Y., *JSYST Sept. 2020 4406-4417*
Hanawal, M.K., *see* Kumar, R., *JSYST June 2020 2085-2096*
Hancke, G.P., *see* Ndiaye, M., *JSYST June 2020 2347-2357*
Hanly, S.V., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Hao, F., *see* Chen, J., *JSYST March 2020 244-252*
Hao, L., *see* Cao, R., *JSYST Dec. 2020 4684-4693*
Hao, M., *see* Zhou, R., *JSYST June 2020 2990-3000*
Hao, W., Sun, G., Muta, O., Zhang, J., and Yang, S., Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN; *JSYST March 2020 673-676*
Hartong, M.W., and Roddy, S.A., An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations; *JSYST Dec. 2020 5308-5319*
Hasan, O., *see* Ahmad, W., *JSYST Dec. 2020 4820-4831*
Hasan, S.R., *see* Ahmad, W., *JSYST Dec. 2020 4820-4831*
Hayat, M.M., *see* Das, P., *JSYST Dec. 2020 4842-4853*
He, B., *see* Gui, L., *JSYST June 2020 2980-2989*
He, D., *see* Jia, X., *JSYST March 2020 560-571*
He, D., *see* Verma, G.K., *JSYST March 2020 621-632*
He, D., *see* Feng, Q., *JSYST June 2020 1820-1829*
He, D., *see* Zhang, Y., *JSYST Dec. 2020 5320-5328*
He, Q., Wang, X., Yi, B., Mao, F., Cai, Y., and Huang, M., Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model; *JSYST June 2020 1874-1885*
He, W., Ahn, C.K., and Xiang, Z., Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems; *JSYST June 2020 1549-1557*
He, Z., *see* Fan, B., *JSYST June 2020 2097-2108*
He, Z., *see* Fu, Y., *JSYST June 2020 1764-1775*
Hedley, M., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Heidarabadi, H., *see* Pourahmadi, F., *JSYST March 2020 718-728*
Hemmati, M., Mohammadi-Ivatloo, B., Abapour, M., and Anvari-Moghaddam, A., Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints; *JSYST Dec. 2020 5340-5349*
Hentati, A.I., and Fourati, L.C., Mobile Target Tracking Mechanisms Using Unmanned Aerial Vehicle: Investigations and Future Directions; *JSYST June 2020 2969-2979*
Hersyandika, R., *see* Joshi, K.C., *JSYST June 2020 2144-2153*
Hiari, O., Mesleh, R., and Al-Khatib, A., A System Simulation Framework for Modeling Space Modulation Techniques; *JSYST March 2020 1435-1446*
Ho, P., *see* Padidar, P., *JSYST Sept. 2020 4466-4476*
Ho, W.K., *see* Chen, T., *JSYST March 2020 771-781*
Ho, W.K., *see* Sun, L., *JSYST June 2020 2801-2812*
Hoang, V.T., Phung, M.D., Dinh, T.H., and Ha, Q.P., System Architecture for Real-Time Surface Inspection Using Multiple UAVs; *JSYST June 2020 2925-2936*
Hollmann, E.H., *see* Pereira, C.S., *JSYST Sept. 2020 3926-3937*
Holm-Nielsen, J.B., *see* Priyadarshi, N., *JSYST March 2020 1218-1229*
Holm-Nielsen, J.B., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Holm-Nielsen, J.B., *see* Mahmud, K., *JSYST Sept. 2020 3641-3652*
Hong, C., *see* Lee, K., *JSYST Sept. 2020 3618-3629*
Hong, J., *see* Lee, K., *JSYST Sept. 2020 4217-4220*
Hong, J., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*
Hong, Y., and Cabatac, M.T.A.M., Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network; *JSYST June 2020 2725-2735*
Hong, Y., and Nguyen, M., Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System; *JSYST June 2020 2759-2769*
Hooshyar, A., *see* Saleh, K.A., *JSYST Sept. 2020 4284-4295*
Horne, D., and Nair, S., A New Privacy-Enhanced Technology for Fair Matchmaking With Identity Linked Wishes; *JSYST March 2020 298-309*
Hossain, J., *see* Islam, M.R., *JSYST Sept. 2020 3676-3686*

Hosseini, S.A., Toulabi, M., Ashouri-Zadeh, A., and Ranjbar, A.M., Modified Power Reserve Management Solution in Power System Considering Frequency Constraints; *JSYST March 2020 1125-1134*
Hosseini, S.H., *see* Pourahmadi, F., *JSYST March 2020 718-728*
Hou, Y., *see* Jia, W., *JSYST June 2020 2464-2472*
Hu, C., *see* Li, P., *JSYST June 2020 2042-2053*
Hu, D., Zhang, Q., Li, Q., and Qin, J., Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications; *JSYST June 2020 2949-2960*
Hu, H., *see* Chen, L., *JSYST Sept. 2020 3301-3312*
Hu, J., *see* Wu, J., *JSYST June 2020 2532-2543*
Hu, S., *see* Sun, J., *JSYST June 2020 1728-1739*
Hu, W., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Hu, X., *see* Wang, J., *JSYST Dec. 2020 5451-5462*
Hu, Y., *see* Zhou, Y., *JSYST March 2020 220-231*
Hu, Y., *see* Zhang, D., *JSYST March 2020 661-664*
Huang, H., *see* Dai, Z., *JSYST Sept. 2020 4368-4381*
Huang, H., *see* Savkin, A.V., *JSYST Dec. 2020 4746-4749*
Huang, J., Xiong, Y., Huang, W., Xu, C., and Miao, F., SieveDroid: Intercepting Undesirable Private-Data Transmissions in Android Applications; *JSYST March 2020 375-386*
Huang, J., *see* Muhlmeyer, M., *JSYST Dec. 2020 5187-5198*
Huang, K., Xiang, Z., Deng, W., Tan, X., and Yang, C., Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage; *JSYST Sept. 2020 4329-4339*
Huang, L., *see* Tian, M., *JSYST June 2020 2597-2600*
Huang, L., *see* Zhao, L., *JSYST Sept. 2020 3904-3915*
Huang, M., *see* He, Q., *JSYST June 2020 1874-1885*
Huang, P., *see* Wang, Q., *JSYST Sept. 2020 4015-4024*
Huang, Q., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Huang, T., *see* Zang, T., *JSYST March 2020 572-581*
Huang, T., *see* Chiu, W., *JSYST June 2020 1580-1591*
Huang, W., *see* Huang, J., *JSYST March 2020 375-386*
Huang, Y., *see* Zhang, H., *JSYST March 2020 445-456*
Huang, Y., *see* Zou, W., *JSYST Dec. 2020 4810-4819*
Hung, N.T., *see* Hai, D.T., *JSYST June 2020 2358-2369*
Huo, Q., *see* Ma, Z., *JSYST Sept. 2020 4602-4613*
Hussain, S.M.S., *see* Aftab, M.A., *JSYST June 2020 2676-2683*
Hussein, M.M., *see* Mahmoud, K., *JSYST March 2020 760-770*
Hutchison, N., *see* Zavala, A., *JSYST Dec. 2020 5049-5060*
Hwang, J., *see* Lee, K., *JSYST Sept. 2020 3618-3629*

I

Idrissi, A., *see* Rehioui, H., *JSYST March 2020 530-537*
Ikki, S.S., *see* Al-Jarrah, M.A., *JSYST June 2020 2225-2236*
Imran, A., *see* Onireti, O., *JSYST June 2020 2520-2531*
Imran, M., Durad, M.H., Khan, F.A., and Abbas, H., DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks; *JSYST June 2020 1933-1944*
Imran, M.A., *see* Onireti, O., *JSYST June 2020 2520-2531*
Ioannou, I., Vassiliou, V., Christophorou, C., and Pitsillides, A., Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks; *JSYST Sept. 2020 4232-4241*
Ioushua, S.S., *see* Gong, T., *JSYST Dec. 2020 5296-5307*
Iqbal, W., *see* Bangash, Y.A., *JSYST Sept. 2020 4489-4499*
Islam, M.R., Lu, H., Hossain, J., and Li, L., Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation; *JSYST Sept. 2020 3676-3686*
Islam, M.R., *see* Islam, M.R., *JSYST Sept. 2020 3676-3686*

J

Jackson, S., *see* Dori, D., *JSYST June 2020 1538-1548*
Jafari, R., Mahdavi, M., and Fazel, M.S., Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network; *JSYST June 2020 2109-2120*
Jahanara, H., *see* Liscouet-Hanke, S., *JSYST Dec. 2020 5441-5450*
Jain, P., and Gupta, A., Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems; *JSYST June 2020 2382-2391*
Jajodia, S., *see* Chen, H., *JSYST Sept. 2020 3779-3790*
Jalali, F., and Zaimbashi, A., Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver; *JSYST March 2020 105-112*
Jalilian, A., *see* Rostami, A., *JSYST March 2020 813-823*
Jamshidi, M., *see* Abdelmawgoud, A., *JSYST March 2020 1491-1502*
Jana, P.K., *see* Muduli, L., *JSYST June 2020 3039-3046*
Jani, M., Garg, P., and Gupta, A., Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems; *JSYST March 2020 469-476*
Jarrahi, M.A., Samet, H., and Ghanbari, T., Novel Change Detection and Fault Classification Scheme for AC Microgrids; *JSYST Sept. 2020 3987-3998*
Javedankherad, M., Zeinalpour-Yazdi, Z., and Ashtiani, F., Content Placement in Cache Networks Using Graph Coloring; *JSYST Sept. 2020 3129-3138*
Javidsharifi, M., Niknam, T., Aghaei, J., Shafie-khah, M., and Catalao, J.P.S., Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints; *JSYST June 2020 2703-2712*
Jayakody, D.N.K., *see* Ghosh, J., *JSYST March 2020 645-648*
Jayakody, D.N.K., *see* Yadav, S., *JSYST June 2020 2585-2588*
Jha, A., *see* Misra, S., *JSYST March 2020 144-151*
Ji, S., and Wang, W., Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels; *JSYST June 2020 2370-2381*
Jia, F., *see* Zhang, C., *JSYST June 2020 2192-2201*
Jia, M., *see* Li, F., *JSYST June 2020 2187-2191*
Jia, N., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Jia, W., Wang, W., Hou, Y., and Zhang, S., Integrated Communication and Localization System With OFDM-Chirp Waveform; *JSYST June 2020 2464-2472*
Jia, X., He, D., Kumar, N., and Choo, K.R., A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing; *JSYST March 2020 560-571*
Jiang, H., *see* Chen, Z., *JSYST June 2020 3001-3010*
Jiang, J., *see* Dong, G., *JSYST Sept. 2020 3653-3664*
Jiang, J., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Jiang, P., Men, J., Xu, H., Zheng, S., Kong, Y., and Zhang, L., A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows; *JSYST Sept. 2020 4344-4355*
Jiang, R., Xiong, K., Fan, P., Zhou, L., and Zhong, Z., Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI; *JSYST March 2020 1206-1217*
Jiang, Y., *see* Deng, L., *JSYST Sept. 2020 4242-4251*
Jiang, Y., Wang, L., Zhao, H., and Chen, H., Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA; *JSYST Sept. 2020 3717-3728*
Jiao, B., *see* Xing, L., *JSYST Sept. 2020 4252-4261*
Jin, H., *see* Li, P., *JSYST June 2020 2042-2053*
Jin, M., *see* Sun, M., *JSYST June 2020 2432-2442*
Jin, Q., Lin, R., and Yang, F., E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN; *JSYST Sept. 2020 3289-3300*
Jin, Y., Kwak, K.S., and Yoo, S., A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks; *JSYST Sept. 2020 3418-3429*
Johnson, M., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Jooste, K., *see* Ma, C., *JSYST June 2020 1992-2002*
Jose, J., and Kowli, A., Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability; *JSYST March 2020 1417-1426*
Joshi, A., *see* Khanna, K., *JSYST June 2020 1945-1952*

Joshi, H., Darak, S.J., and Kumar, A.A., Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing; *JSYST Dec. 2020 4931-4942*

Joshi, K.C., Hersyandika, R., and Prasad, R.V., Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look; *JSYST June 2020 2144-2153*

Ju, Y., Zhu, Y., Wang, H., Pei, Q., and Zheng, H., Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems; *JSYST Dec. 2020 5121-5132*

Jung, B., Lim, S., Chae, J., Pu, C., and Min, M., MQry: Elastic Validity Region for Querying Mobile Point-of-Interests in Infrastructure-Less Networks; *JSYST June 2020 1852-1861*

Jurado-Lasso, F.F., Clarke, K., and Nirmalathas, A., A Software-Defined Management System for IP-Enabled WSNs; *JSYST June 2020 2335-2346*

Jurado-Lasso, F.F., Clarke, K., and Nirmalathas, A., Performance Analysis of Software-Defined Multihop Wireless Sensor Networks; *JSYST Dec. 2020 4653-4662*

Justo, J.J., *see* Lupangu, C., *JSYST Sept. 2020 4071-4078*

K

K.N., S., *see* S., N., *JSYST March 2020 1007-1014*

Kabir, M.E., Assi, C., Tushar, M.H.K., and Yan, J., Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station; *JSYST Sept. 2020 4221-4231*

Kaddoum, G., *see* Tran, D., *JSYST March 2020 253-264*

Kaddoum, G., *see* Alam, M.S., *JSYST Sept. 2020 4079-4088*

Kader, M.F., *see* Sarker, M.A.L., *JSYST Sept. 2020 3582-3585*

Kaiwartya, O., *see* Verma, G.K., *JSYST June 2020 1704-1715*

Kaiwartya, O., *see* Khasawneh, A.M., *JSYST Dec. 2020 4735-4745*

Kaiwartya, O., *see* Kumar, S., *JSYST Dec. 2020 4663-4673*

Kalam, A., *see* Moghaddam, M.J.H., *JSYST Sept. 2020 3530-3538*

Kalbat, F., Al-Dweik, A., Sharif, B., and Karagiannidis, G.K., Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset; *JSYST June 2020 2237-2248*

Kammoun, I., *see* Ayadi, R., *JSYST March 2020 603-613*

Kandasamy, N.K., *see* Kaur, R., *JSYST March 2020 729-737*

Kang, H., *see* Park, L.H., *JSYST Sept. 2020 4545-4556*

Kang, J., Chun, C., Kim, I., and Kim, D.I., Deep RNN-Based Channel Tracking for Wireless Energy Transfer System; *JSYST Sept. 2020 4340-4343*

Kang, J., and Chun, C., Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems; *JSYST Sept. 2020 3740-3743*

Kang, J., Kim, I., and Chun, C., Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding; *JSYST Sept. 2020 3414-3417*

Kaple, T., *see* Raut, P., *JSYST Sept. 2020 3390-3398*

Kapoor, A., and Sharma, A., Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System; *JSYST Sept. 2020 3825-3835*

Karagiannidis, G.K., *see* Kalbat, F., *JSYST June 2020 2237-2248*

Karimi, V., Mohseni, R., and Samadi, S., Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter; *JSYST Sept. 2020 3630-3640*

Karmakar, S., *see* Lala, H., *JSYST Sept. 2020 3494-3505*

Kasimu, A., Wu, D.D., and Bian, Y., System Dynamic-Based Oil Weathering Processes: Simulation and Analysis; *JSYST March 2020 1375-1383*

Katti, C.P., *see* Kumar, M., *JSYST June 2020 2032-2041*

Kaur, H., and Sood, S.K., Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting; *JSYST June 2020 2003-2011*

Kaur, K., Garg, S., Kumar, N., Aujla, G.S., Choo, K.R., and Obaidat, M.S., An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers; *JSYST March 2020 1195-1205*

Kaur, R., Krishnasamy, V., Kandasamy, N.K., and Kumar, S., Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers; *JSYST March 2020 729-737*

Kaveh, M., and Mosavi, M.R., A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function; *JSYST Sept. 2020 4535-4544*

Kaynak, O., *see* Liu, T., *JSYST June 2020 1830-1839*

Kazari, H., *see* Toulabi, M., *JSYST June 2020 2615-2623*

Keane, A., *see* Nouri, A., *JSYST Sept. 2020 3767-3778*

Keshavarz, A., *see* Saber, M.J., *JSYST Sept. 2020 4402-4405*

Khalid, H.M., Muyeen, S.M., and Peng, J.C., Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach; *JSYST June 2020 2054-2065*

Khalid, H.M., and Peng, J.C., Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries; *JSYST Sept. 2020 3665-3675*

Khalifeh, A., *see* Khasawneh, A.M., *JSYST Dec. 2020 4735-4745*

Khan, F.A., *see* Imran, M., *JSYST June 2020 1933-1944*

Khan, M.K., *see* Li, X., *JSYST March 2020 39-50*

Khan, M.M.Z.M., *see* Bangash, Y.A., *JSYST Sept. 2020 4489-4499*

Khan, S., *see* Shariff, S.M., *JSYST June 2020 2748-2758*

Khan, U.A., *see* Doostmohammadian, M., *JSYST March 2020 73-83*

Khani, H., and Nie, H., Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference; *JSYST June 2020 2311-2322*

Khanna, A., *see* Chavhan, S., *JSYST Dec. 2020 5233-5244*

Khanna, K., Panigrahi, B.K., and Joshi, A., Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation; *JSYST June 2020 1945-1952*

Khanouche, M.E., Atmani, N., and Cherifi, A., Improved Teaching Learning-Based QoS-Aware Services Composition for Internet of Things; *JSYST Sept. 2020 4155-4164*

Khasawneh, A.M., Kaiwartya, O., Khalifeh, A., Abualigah, L.M., and Lloret, J., Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling; *JSYST Dec. 2020 4735-4745*

Khatami, R., and Parvania, M., Spatio-Temporal Value of Energy Storage in Transmission Networks; *JSYST Sept. 2020 3855-3864*

Khatoun, R., *see* Hammi, B., *JSYST Sept. 2020 3440-3450*

Khodadoost Arani, A.A., Gharehpetian, G.B., and Abedi, M., A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids; *JSYST March 2020 1080-1087*

Khodayar, M.E., *see* Manshadi, S.D., *JSYST March 2020 803-812*

Khooban, M.H., *see* Gheisarnejad, M., *JSYST March 2020 1058-1068*

Khooban, M.H., *see* Vafamand, N., *JSYST Sept. 2020 4025-4035*

Kiaei, I., *see* Rostami, M., *JSYST March 2020 1088-1097*

Kilicay-Ergin, N.H., *see* Srinivasan, S.M., *JSYST March 2020 1353-1364*

Kim, D.I., *see* Kang, J., *JSYST Sept. 2020 4340-4343*

Kim, I., *see* Kang, J., *JSYST Sept. 2020 4340-4343*

Kim, I., *see* Kang, J., *JSYST Sept. 2020 3414-3417*

Kim, J., *see* Saad, M., *JSYST March 2020 321-332*

Kim, J., *see* Lee, H., *JSYST June 2020 2589-2592*

Kim, R., *see* Ko, B., *JSYST Sept. 2020 4591-4601*

Kim, S., *see* Yang, T., *JSYST June 2020 3057-3060*

Kim, S., *see* Ko, B., *JSYST Sept. 2020 4591-4601*

Kim, S., *see* Ko, B., *JSYST Sept. 2020 4591-4601*

Kim, T., *see* Kumar, G., *JSYST Sept. 2020 3949-3956*

Kimura, H., Kimura, T., Asano, Y., Kunugi, T., and Aoi, S., An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes; *JSYST Sept. 2020 3451-3462*

Kimura, T., *see* Kimura, H., *JSYST Sept. 2020 3451-3462*

Kiranmayi, R., *see* Kumar, V.N., *JSYST Sept. 2020 4308-4319*

Kitts, C.A., *see* McDonald, R.T., *JSYST Sept. 2020 3755-3766*

Kmimech, M., *see* Rouis, T.S., *JSYST June 2020 1647-1657*

Ko, B., Lee, G., Choi, K., Kim, R., Kim, S., Cho, J., and Kim, S., Flexible Control Structure for Enhancement of Scalability in DC Microgrids; *JSYST Sept. 2020 4591-4601*

Koch, F.L., *see* Vieira, K., *JSYST June 2020 1984-1991*

Kohler, M., Vellasco, M., Silva, E., and Figueiredo, K., SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization; *JSYST Dec. 2020 5111-5120*

Koley, E., *see* Manohar, M., *JSYST Sept. 2020 3430-3439*

Kong, D., *see* Fan, B., *JSYST June 2020 2097-2108*
Kong, D., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Kong, L., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*
Kong, P., Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles; *JSYST Sept. 2020 3360-3370*
Kong, Y., *see* Jiang, P., *JSYST Sept. 2020 4344-4355*
Koo, I., *see* Tuan, P.V., *JSYST March 2020 457-468*
Kordestani, M., Chaibakhsh, A., and Saif, M., SMS–A Security Management System for Steam Turbines Using a Multisensor Array; *JSYST Sept. 2020 3813-3824*
Kordestani, M., Samadi, M.F., and Saif, M., A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm; *JSYST Dec. 2020 5407-5416*
Kothari, S., *see* Zavala, A., *JSYST Dec. 2020 5049-5060*
Kourogiorgas, C.I., *see* Lyras, N.K., *JSYST Sept. 2020 3968-3976*
Koutroulis, E., *see* Malisovas, A., *JSYST Dec. 2020 4706-4717*
Kowli, A., *see* Jose, J., *JSYST March 2020 1417-1426*
Kozlov, S.A., *see* Teles, G., *JSYST Sept. 2020 4557-4566*
Krishnamoorthy, G., and Dubey, A., Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling; *JSYST June 2020 2633-2642*
Krishnasamy, V., *see* Kaur, R., *JSYST March 2020 729-737*
Krob, D., *see* Dori, D., *JSYST June 2020 1538-1548*
Kroposki, B., *see* Saleem, D., *JSYST March 2020 17-27*
Kuenzi, A., *see* Vuppala, S., *JSYST June 2020 1810-1819*
Kumar, A.A., *see* Joshi, H., *JSYST Dec. 2020 4931-4942*
Kumar, D., *see* Sandhya, K., *JSYST Dec. 2020 5160-5171*
Kumar, G., Saha, R., Rai, M.K., Thomas, R., and Kim, T., A Lattice Signcrypted Secured Localization in Wireless Sensor Networks; *JSYST Sept. 2020 3949-3956*
Kumar, M., Chand, S., and Katti, C.P., A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature; *JSYST June 2020 2032-2041*
Kumar, M., and Tyagi, B., An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration; *JSYST Sept. 2020 4143-4154*
Kumar, M., *see* Shivhare, A., *JSYST Dec. 2020 4854-4863*
Kumar, N., *see* Jia, X., *JSYST March 2020 560-571*
Kumar, N., *see* Kaur, K., *JSYST March 2020 1195-1205*
Kumar, N., *see* Verma, G.K., *JSYST March 2020 621-632*
Kumar, N., Saha, T.K., and Dey, J., Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control; *JSYST March 2020 909-915*
Kumar, N., *see* Feng, Q., *JSYST June 2020 1820-1829*
Kumar, N., *see* Verma, G.K., *JSYST June 2020 1704-1715*
Kumar, N., *see* Li, X., *JSYST Sept. 2020 3547-3557*
Kumar, N., *see* Kumar, S., *JSYST Dec. 2020 4663-4673*
Kumar, P., *see* Pandey, A., *JSYST June 2020 1953-1962*
Kumar, P., and Dhaka, K., Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source; *JSYST June 2020 2497-2507*
Kumar, R., Darak, S.J., Hanawal, M.K., and Yadav, A., Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size; *JSYST June 2020 2085-2096*
Kumar, S., *see* Kaur, R., *JSYST March 2020 729-737*
Kumar, S., Nanomachine Localization in a Diffusive Molecular Communication System; *JSYST June 2020 3011-3014*
Kumar, S., *see* Pandey, A., *JSYST June 2020 1953-1962*
Kumar, S., and Misra, S., Procurement-Based User Association for LTE-Advanced HetNets; *JSYST Sept. 2020 3194-3201*
Kumar, S., Kaiwartya, O., Rathee, M., Kumar, N., and Lloret, J., Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments; *JSYST Dec. 2020 4663-4673*
Kumar, V., Mukherjee, M., and Lloret, J., Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype; *JSYST March 2020 28-38*
Kumar, V., *see* Prasanna, A.L., *JSYST June 2020 2293-2302*
Kumar, V., *see* Sen, S., *JSYST June 2020 2653-2664*
Kumar, V., *see* Yadav, S., *JSYST June 2020 2585-2588*
Kumar, V., *see* Sen, S., *JSYST Sept. 2020 4418-4429*
Kumar, V.N., Babu P., N., Kiranmayi, R., Siano, P., and Panda, G., Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator; *JSYST Sept. 2020 4308-4319*
Kung, S., *see* Zhou, Y., *JSYST March 2020 220-231*
Kunugi, T., *see* Kimura, H., *JSYST Sept. 2020 3451-3462*
Kuo, S., *see* Chan, R.Y., *JSYST March 2020 208-219*
Kurniawan, N.B., Suhardi, Bandung, Y., and Yustianto, P., Services Computing Systems Engineering Framework: A Proposition and Evaluation Through SOA Principles and Analysis Model; *JSYST Sept. 2020 3105-3116*
Kwak, K.S., *see* Jin, Y., *JSYST Sept. 2020 3418-3429*
Kwon, T., *see* Park, L.H., *JSYST Sept. 2020 4545-4556*
Kyriakides, E., *see* Zacharia, L., *JSYST March 2020 422-432*

L

Lahon, R., Gupta, C.P., and Fernandez, E., Priority-Based Scheduling of Energy Exchanges Between Cooperative Microgrids in Risk-Averse Environment; *JSYST March 2020 1098-1108*
Lai, C., and Zhang, X., Duration-Sensitive Task Allocation for Mobile Crowd Sensing; *JSYST Sept. 2020 4430-4441*
Lai, X., Zhang, Q., and Qin, J., Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels; *JSYST Sept. 2020 3410-3413*
Lai, Y., *see* Chang, Y., *JSYST March 2020 164-171*
Lala, H., and Karmakar, S., Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition; *JSYST Sept. 2020 3494-3505*
Lam, A.Y.S., *see* Chen, X., *JSYST March 2020 1034-1045*
Lam, K., *see* Li, F., *JSYST June 2020 2187-2191*
Latify, M.A., *see* Nemati, H., *JSYST March 2020 793-802*
Leao, J.L.D.S., *see* Vieira, K., *JSYST June 2020 1984-1991*
Ledwich, G., *see* Shafiei, M., *JSYST Dec. 2020 5265-5273*
Lee, G., *see* Ko, B., *JSYST Sept. 2020 4591-4601*
Lee, H., and Lee, J., Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks; *JSYST March 2020 132-143*
Lee, H., Kim, J., and Lee, J., Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach; *JSYST June 2020 2589-2592*
Lee, H., and Lee, J., EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting; *JSYST June 2020 2281-2292*
Lee, H., *see* Yu, H., *JSYST Dec. 2020 4990-5001*
Lee, J., *see* Lee, H., *JSYST March 2020 132-143*
Lee, J., Baek, H., and Lim, J., Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar; *JSYST June 2020 3061-3064*
Lee, J., *see* Lee, H., *JSYST June 2020 2589-2592*
Lee, J., *see* Lee, H., *JSYST June 2020 2281-2292*
Lee, K., and Choi, H., Fast Wireless Power Transfer for Multiple Receivers in Linear Topology; *JSYST March 2020 649-652*
Lee, K., *see* Chen, D., *JSYST June 2020 2411-2420*
Lee, K., Hong, J., and Choi, H., Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity; *JSYST Sept. 2020 4217-4220*
Lee, K., Hong, C., Hwang, J., and Yoo, C., Dynamic Network Scheduling for Virtual Routers; *JSYST Sept. 2020 3618-3629*
Lee, K., and Lee, W., Learning-Based Resource Management for SWIPT; *JSYST Dec. 2020 4750-4753*
Lee, S., *see* Chang, K., *JSYST Sept. 2020 4047-4058*
Lee, T., *see* Park, L.H., *JSYST Sept. 2020 4545-4556*
Lee, W., *see* Lee, K., *JSYST Dec. 2020 4750-4753*
Lee, Y.L., *see* Chuah, T.C., *JSYST June 2020 2175-2186*
Legg, P., *see* Xu, S., *JSYST June 2020 1740-1751*
Lehtonen, M., *see* Mahmoud, K., *JSYST March 2020 760-770*

Leles, M.C.R., Mozelli, L.A., Sbruzzi, E.F., Nascimento, C.L., and Guimaraes, H.N., A Multicriteria Trading System Based on Singular Spectrum Analysis Trading Rules; *JSYST March 2020 1468-1478*
Leow, C.Y., *see* Fadoul, M.M., *JSYST June 2020 2392-2399*
Leung, H., *see* Li, H., *JSYST March 2020 653-656*
Leung, K., *see* Ye, J., *JSYST March 2020 1285-1296*
Leung, K., *see* Chen, X., *JSYST March 2020 1034-1045*
Levrat, E., *see* Wu, Q., *JSYST Dec. 2020 4765-4776*
Li, B., *see* Li, T., *JSYST June 2020 1692-1703*
Li, C., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Li, D., Zhao, X., and Cao, P., An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow; *JSYST Dec. 2020 4726-4734*
Li, F., *see* Clemente, J., *JSYST March 2020 1277-1284*
Li, F., *see* Wang, H., *JSYST June 2020 2684-2693*
Li, F., Lam, K., Jia, M., Zhao, K., Li, X., and Wang, L., Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences; *JSYST June 2020 2187-2191*
Li, F., *see* Yan, X., *JSYST June 2020 2694-2702*
Li, F., Clemente, J., Valero, M., Tse, Z., Li, S., and Song, W., Smart Home Monitoring System via Footstep-Induced Vibrations; *JSYST Sept. 2020 3383-3389*
Li, G., Li, Y., and Roozitalab, F., Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine; *JSYST Dec. 2020 4967-4977*
Li, H., Zhou, S., Yuan, W., Li, J., and Leung, H., Adversarial-Example Attacks Toward Android Malware Detection System; *JSYST March 2020 653-656*
Li, J., *see* Li, H., *JSYST March 2020 653-656*
Li, J., Han, S., Tai, X., Gao, C., and Zhang, Q., Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation; *JSYST March 2020 433-444*
Li, J., *see* Liu, J., *JSYST March 2020 1503-1511*
Li, J., *see* Li, X., *JSYST March 2020 669-672*
Li, J., *see* Yan, H., *JSYST June 2020 1788-1797*
Li, J., *see* Liu, J., *JSYST June 2020 3027-3038*
Li, J., *see* Wang, X., *JSYST Sept. 2020 4356-4367*
Li, J., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Li, J., Hu, W., Wu, X., Huang, Q., Liu, Z., Chen, C., and Chen, Z., Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography; *JSYST Sept. 2020 3082-3092*
Li, K., *see* Luo, S., *JSYST June 2020 2581-2584*
Li, L., *see* Li, X., *JSYST March 2020 669-672*
Li, L., *see* Islam, M.R., *JSYST Sept. 2020 3676-3686*
Li, L., *see* Wang, X., *JSYST Sept. 2020 4356-4367*
Li, M., *see* Tian, X., *JSYST March 2020 548-559*
Li, M., *see* Zhou, X., *JSYST June 2020 1798-1809*
Li, N., *see* Wu, J., *JSYST March 2020 1479-1490*
Li, P., Xu, C., Jin, H., Hu, C., Luo, Y., Cao, Y., Mathew, J., and Ma, Y., ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains; *JSYST June 2020 2042-2053*
Li, P., *see* Yang, L., *JSYST June 2020 1623-1634*
Li, P., *see* Wang, Z., *JSYST June 2020 2913-2924*
Li, Q., and Yang, L., Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT; *JSYST March 2020 196-207*
Li, Q., *see* Hu, D., *JSYST June 2020 2949-2960*
Li, Q., *see* Tian, M., *JSYST June 2020 2597-2600*
Li, Q., *see* Zhao, S., *JSYST Dec. 2020 5144-5147*
Li, R., *see* Chen, Y., *JSYST June 2020 2202-2213*
Li, R., *see* Dong, G., *JSYST Sept. 2020 3653-3664*
Li, S., and Xiang, Z., Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems; *JSYST June 2020 1602-1610*
Li, S., *see* Xu, S., *JSYST June 2020 1740-1751*
Li, S., *see* Li, F., *JSYST Sept. 2020 3383-3389*
Li, S., *see* Yan, Y., *JSYST Sept. 2020 3233-3244*
Li, S., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Li, T., Tong, K., Xia, M., Li, B., and de Silva, C.W., Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping; *JSYST June 2020 1692-1703*
Li, X., Peng, J., Obaidat, M.S., Wu, F., Khan, M.K., and Chen, C., A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems; *JSYST March 2020 39-50*
Li, X., Li, J., and Li, L., Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels; *JSYST March 2020 669-672*
Li, X., *see* Wang, H., *JSYST March 2020 538-547*
Li, X., *see* Li, F., *JSYST June 2020 2187-2191*
Li, X., *see* Luo, X., *JSYST June 2020 2901-2912*
Li, X., *see* Luo, X., *JSYST June 2020 2901-2912*
Li, X., *see* Pan, H., *JSYST Sept. 2020 3938-3948*
Li, X., Liu, T., Obaidat, M.S., Wu, F., Vijayakumar, P., and Kumar, N., A Lightweight Privacy-Preserving Authentication Protocol for VANETs; *JSYST Sept. 2020 3547-3557*
Li, Y., *see* Sun, M., *JSYST June 2020 2432-2442*
Li, Y., *see* Xiong, H., *JSYST Sept. 2020 3744-3754*
Li, Y., *see* Li, G., *JSYST Dec. 2020 4967-4977*
Li, Y., *see* Zhang, Y., *JSYST Dec. 2020 5320-5328*
Lian, C., *see* Lyu, Z., *JSYST Dec. 2020 5061-5072*
Lian, F., *see* Lin, C., *JSYST Sept. 2020 4523-4534*
Lian, H., *see* Pan, H., *JSYST Sept. 2020 3938-3948*
Liang, C., *see* Yang, S., *JSYST March 2020 1447-1456*
Liao, J., *see* Zhuang, Z., *JSYST June 2020 1658-1669*
Liberati, F., Di Giorgio, A., Giuseppi, A., Pietrabissa, A., and Delli Priscoli, F., Efficient and Risk-Aware Control of Electricity Distribution Grids; *JSYST Sept. 2020 3586-3597*
Lim, J., *see* Lee, J., *JSYST June 2020 3061-3064*
Lim, S., *see* Jung, B., *JSYST June 2020 1852-1861*
Limbasiya, T., and Das, D., Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication; *JSYST March 2020 520-529*
Lin, C., and Lian, F., System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition; *JSYST Sept. 2020 4523-4534*
Lin, D., and Tang, Y., Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation; *JSYST June 2020 1716-1727*
Lin, F.P., and Tsai, Z., Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing; *JSYST March 2020 265-276*
Lin, J.C., *see* Gan, W., *JSYST Sept. 2020 4442-4453*
Lin, M., *see* Wang, J., *JSYST Sept. 2020 4176-4187*
Lin, M., *see* Chen, P., *JSYST Sept. 2020 3801-3812*
Lin, R., *see* Jin, Q., *JSYST Sept. 2020 3289-3300*
Lin, S., *see* Wang, J., *JSYST Sept. 2020 4176-4187*
Lin, Y., *see* Van, L., *JSYST June 2020 3015-3026*
Lin, Y., *see* Van, L., *JSYST June 2020 3015-3026*
Lindelauf, R., *see* Chen, H., *JSYST Sept. 2020 3779-3790*
Ling, K., *see* Chen, T., *JSYST March 2020 771-781*
Ling, K.V., *see* Sun, L., *JSYST June 2020 2801-2812*
Lins, R.G., N. Givigi, S., FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure; *JSYST June 2020 2961-2964*
Liscouet-Hanke, S., Jahanara, H., and Bauduin, J., A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers; *JSYST Dec. 2020 5441-5450*
Lisi, S.S., *see* Masoudi, M., *JSYST Dec. 2020 5100-5110*
Liu, B., *see* Xu, S., *JSYST June 2020 1740-1751*
Liu, B., *see* Wu, T., *JSYST Dec. 2020 5429-5440*
Liu, C., Rouse, W.B., and Belanger, D., Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry; *JSYST March 2020 1365-1374*
Liu, C., *see* Wang, J., *JSYST June 2020 3047-3056*
Liu, C., *see* Wang, J., *JSYST Sept. 2020 4176-4187*
Liu, C., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Liu, D., *see* Zhang, Z., *JSYST March 2020 184-195*

Liu, D., Cheng, W., and Wen, W., An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions; *JSYST June 2020 2323-2334*
Liu, F., *see* Wang, Q., *JSYST Sept. 2020 4015-4024*
Liu, G., *see* Manshadi, S.D., *JSYST March 2020 803-812*
Liu, G., *see* Sun, G., *JSYST Dec. 2020 4694-4705*
Liu, J., Han, W., Li, J., Zhang, Y., and Su, X., Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop; *JSYST March 2020 1503-1511*
Liu, J., Han, W., Wang, X., and Li, J., Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck; *JSYST June 2020 3027-3038*
Liu, J., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Liu, J., *see* Dai, J., *JSYST Dec. 2020 4832-4841*
Liu, K., *see* Wu, T., *JSYST Dec. 2020 5429-5440*
Liu, L., *see* Wang, Z., *JSYST June 2020 2913-2924*
Liu, L., *see* Fang, S., *JSYST Dec. 2020 4754-4764*
Liu, M., Tu, S., Xiao, C., Waqas, M., Rehman, S.u., Aamir, M., and Chang, C., The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm; *JSYST March 2020 582-591*
Liu, M., *see* Lu, W., *JSYST Sept. 2020 3695-3704*
Liu, Q., *see* Tian, X., *JSYST March 2020 548-559*
Liu, Q., *see* Lu, W., *JSYST Sept. 2020 3695-3704*
Liu, Q., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Liu, S., *see* Guo, Z., *JSYST March 2020 677-688*
Liu, S., Siano, P., and Wang, X., Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks; *JSYST June 2020 2593-2596*
Liu, S., *see* Wang, Z., *JSYST Sept. 2020 4188-4196*
Liu, S., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*
Liu, T., Luo, H., Kaynak, O., and Yin, S., A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach; *JSYST June 2020 1830-1839*
Liu, T., *see* Li, X., *JSYST Sept. 2020 3547-3557*
Liu, W., *see* Zhang, H., *JSYST June 2020 2569-2580*
Liu, Y., *see* Song, J., *JSYST March 2020 900-908*
Liu, Y., *see* Zhi, T., *JSYST June 2020 1776-1787*
Liu, Y., Chen, H., Wang, L., and Meng, W., Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach; *JSYST June 2020 2121-2132*
Liu, Y., Pan, C., You, L., and Han, W., D2D-Enabled User Cooperation in Massive MIMO; *JSYST Sept. 2020 4406-4417*
Liu, Z., Xie, Y., Yuan, Y., Ma, K., Chan, K.Y., and Guan, X., Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication; *JSYST June 2020 2557-2568*
Liu, Z., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Lloret, J., *see* Kumar, V., *JSYST March 2020 28-38*
Lloret, J., *see* Khasawneh, A.M., *JSYST Dec. 2020 4735-4745*
Lloret, J., *see* Kumar, S., *JSYST Dec. 2020 4663-4673*
Logenthiran, T., *see* Quek, Y.T., *JSYST March 2020 1395-1404*
Lopez, L., *see* Chen, Y., *JSYST June 2020 2066-2077*
Lotfifard, S., *see* Rostami, M., *JSYST March 2020 1088-1097*
Louati, J., *see* Siala, H., *JSYST Sept. 2020 3977-3986*
Lu, H., *see* Islam, M.R., *JSYST Sept. 2020 3676-3686*
Lu, H., Xie, X., Shi, Z., and Yang, H., Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications; *JSYST Dec. 2020 5002-5013*
Lu, J., Wang, G., and Torngren, M., Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain; *JSYST March 2020 1297-1308*
Lu, J., *see* Tao, X., *JSYST Sept. 2020 3256-3266*
Lu, W., *see* Zhang, H., *JSYST June 2020 2569-2580*
Lu, W., Liu, M., and Liu, Q., Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids; *JSYST Sept. 2020 3695-3704*
Lu, X., *see* Zhou, R., *JSYST Dec. 2020 4919-4930*
Lucic, M.C., Ghazzai, H., and Massoud, Y., A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure; *JSYST Dec. 2020 4786-4797*
Lun, Y., Yao, P., and Wang, Y., Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission; *JSYST Dec. 2020 5014-5024*
Luo, H., *see* Wei, H., *JSYST March 2020 61-72*
Luo, H., *see* Liu, T., *JSYST June 2020 1830-1839*
Luo, J., *see* Dai, C., *JSYST Dec. 2020 5025-5036*
Luo, L., *see* Xia, J., *JSYST Sept. 2020 4296-4307*
Luo, S., Xing, H., and Li, K., Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks; *JSYST June 2020 2581-2584*
Luo, X., Li, X., Li, X., Yan, J., and Guan, X., Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement; *JSYST June 2020 2901-2912*
Luo, X., *see* Wang, X., *JSYST Sept. 2020 4454-4465*
Luo, Y., *see* Li, P., *JSYST June 2020 2042-2053*
Lupangu, C., Justo, J.J., and Bansal, R.C., Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market; *JSYST Sept. 2020 4071-4078*
Lyras, N.K., Efrem, C.N., Kourogiorgas, C.I., Panagopoulos, A.D., and Arapoglou, P., Optimizing the Ground Network of Optical MEO Satellite Communication Systems; *JSYST Sept. 2020 3968-3976*
Lyu, Z., Wei, Z., Wang, X., Fan, Y., Xia, C., and Shi, L., A Periodic Multinode Charging and Data Collection Scheme With Optimal Traveling Path in WRSNs; *JSYST Sept. 2020 3518-3529*
Lyu, Z., Wei, H., Bai, X., and Lian, C., Microservice-Based Architecture for an Energy Management System; *JSYST Dec. 2020 5061-5072*

M

Ma, C., Wang, B., Jooste, K., Zhang, Z., and Ping, Y., Practical Privacy-Preserving Frequent Itemset Mining on Supermarket Transactions; *JSYST June 2020 1992-2002*
Ma, K., *see* Liu, Z., *JSYST June 2020 2557-2568*
Ma, R., Basumallik, S., and Eftekharnejad, S., A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks; *JSYST Sept. 2020 3558-3569*
Ma, Y., *see* Li, P., *JSYST June 2020 2042-2053*
Ma, Z., Huo, Q., Yang, X., and Zhao, X., Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication; *JSYST Sept. 2020 4602-4613*
Mabrouk, A., Shafie, A.E., Tourki, K., Al-Dhahir, N., and Hamdi, N., Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers; *JSYST March 2020 665-668*
Maciejowski, J.M., *see* Sun, L., *JSYST June 2020 2801-2812*
MacKenzie, A.B., *see* Gomez, M.M., *JSYST March 2020 489-499*
Mackey, A., Spachos, P., and Plataniotis, K.N., Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering; *JSYST Sept. 2020 3371-3382*
Mady, A.E., *see* Vuppala, S., *JSYST June 2020 1810-1819*
Maggiore, P., *see* Garzaniti, N., *JSYST Sept. 2020 4382-4393*
Mahdavi, M., *see* Jafari, R., *JSYST June 2020 2109-2120*
Mahdawi, L., *see* Salameh, H.A.B., *JSYST March 2020 84-92*
Mahmoud, K., Hussein, M.M., Abdel-Nasser, M., and Lehtonen, M., Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer; *JSYST March 2020 760-770*
Mahmud, K., Sahoo, A.K., Fernandez, E., Sanjeevikumar, P., and Holm-Nielsen, J.B., Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid; *JSYST Sept. 2020 3641-3652*
Mahzarnia, M., Moghaddam, M.P., Baboli, P.T., and Siano, P., A Review of the Measures to Enhance Power Systems Resilience; *JSYST Sept. 2020 4059-4070*
Mai, Z., *see* Xiong, H., *JSYST Sept. 2020 3744-3754*
Maier, M.W., and Wendoloski, E.B., Value Uncertainty Analysis in Architecture and Trade Studies; *JSYST Dec. 2020 5417-5428*
Maity, I., *see* Mondal, A., *JSYST March 2020 124-131*

Maity, S.P., *see* Paul, A., *JSYST Sept. 2020 3791-3800*
Makwana, Y.M., Bhalja, B.R., and Gokaraju, R., Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor; *JSYST June 2020 2770-2779*
Malisa, R., Schwella, E., and Batinge, B., Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019); *JSYST March 2020 1523-1530*
Malisovas, A., and Koutroulis, E., Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids; *JSYST Dec. 2020 4706-4717*
Mallikarjuna, B., *see* Pal, D., *JSYST March 2020 862-869*
Mammo, W., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Mancarella, P., *see* Zhou, Y., *JSYST March 2020 749-759*
Mancarella, P., *see* Espinoza, S., *JSYST June 2020 2837-2848*
Manohar, M., Koley, E., and Ghosh, S., Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed; *JSYST Sept. 2020 3430-3439*
Manoharan, S.H., *see* Chiu, W., *JSYST June 2020 1580-1591*
Manshadi, S.D., Liu, G., Khodayar, M.E., Wang, J., and Dai, R., A Distributed Convex Relaxation Approach to Solve the Power Flow Problem; *JSYST March 2020 803-812*
Mao, F., *see* He, Q., *JSYST June 2020 1874-1885*
Mao, Y., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Marin, A., *see* Carrizosa, E., *JSYST Sept. 2020 3916-3925*
Marin, M., *see* Olauson, J., *JSYST Sept. 2020 3687-3694*
Martin, J., *see* Dori, D., *JSYST June 2020 1538-1548*
Martinez-Ortega, J., *see* Chen, Y., *JSYST June 2020 2066-2077*
Marzband, M., *see* Mirzaei, M.A., *JSYST Sept. 2020 3598-3608*
Marzooghi, H., *see* Paidi, E.S.N.R., *JSYST Dec. 2020 4978-4989*
Mascherona, R., *see* Di Maio, F., *JSYST March 2020 1333-1340*
Masoudi, M., Lisi, S.S., and Cavdar, C., Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design; *JSYST Dec. 2020 5100-5110*
Massoud, Y., *see* Lucic, M.C., *JSYST Dec. 2020 4786-4797*
Mathew, A., Roy, A., and Mathew, J., Intelligent Residential Energy Management System Using Deep Reinforcement Learning; *JSYST Dec. 2020 5362-5372*
Mathew, J., *see* Li, P., *JSYST June 2020 2042-2053*
Mathew, J., *see* Mathew, A., *JSYST Dec. 2020 5362-5372*
Mayfield, M., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*
Mazloum, J., *see* Saber, M.J., *JSYST Sept. 2020 4402-4405*
McClure, S.C., *see* Dong, G., *JSYST Sept. 2020 3653-3664*
McDonald, R.T., Condino, M., Neumann, M.A., and Kitts, C.A., Navigation of Scalar Fronts With Multirobot Clusters in Simulation and Experiment; *JSYST Sept. 2020 3755-3766*
McKinney, D., *see* Dori, D., *JSYST June 2020 1538-1548*
Meena, N.K., *see* Singh, P., *JSYST March 2020 880-888*
Meghwani, A., Gokaraju, R., Srivastava, S.C., and Chakrabarti, S., Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique; *JSYST March 2020 1159-1170*
Mei, Q., *see* Xiong, H., *JSYST March 2020 310-320*
Meluso, J., Austin-Breneman, J., and Shaw, L., An Agent-Based Model of Miscommunication in Complex System Engineering Organizations; *JSYST Sept. 2020 3463-3474*
Men, J., *see* Jiang, P., *JSYST Sept. 2020 4344-4355*
Meng, W., *see* Liu, Y., *JSYST June 2020 2121-2132*
Meng, Z., Wu, Z., and Gray, J., Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing; *JSYST March 2020 113-123*
Mesleh, R., *see* Hiari, O., *JSYST March 2020 1435-1446*
Mhenni, F., *see* Baklouti, A., *JSYST March 2020 1512-1522*
Mhenni, F., *see* Siala, H., *JSYST Sept. 2020 3977-3986*
Mi, Z., *see* Xie, Y., *JSYST March 2020 1245-1256*
Miao, F., *see* Huang, J., *JSYST March 2020 375-386*
Mikkili, S., *see* Pendem, S.R., *JSYST March 2020 1046-1057*
Min, M., *see* Jung, B., *JSYST June 2020 1852-1861*
Minotto, A., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Mirsarraf, M.R., *see* Goudarzi, P., *JSYST March 2020 927-938*
Mirzaei, M.A., Nazari-Heris, M., Mohammadi-Ivatloo, B., Zare, K., Marzband, M., and Anvari-Moghaddam, A., A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies; *JSYST Sept. 2020 3598-3608*
Mishra, D.P., *see* Muduli, L., *JSYST June 2020 3039-3046*
Mishra, M.K., *see* Pawar, P., *JSYST June 2020 2269-2280*
Mishra, S., *see* Sharma, D., *JSYST March 2020 782-792*
Mishra, S., *see* Firdaus, A., *JSYST March 2020 1024-1033*
Misra, S., *see* Roy, A., *JSYST March 2020 9-16*
Misra, S., Roy, S.K., Roy, A., Obaidat, M.S., and Jha, A., MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things; *JSYST March 2020 144-151*
Misra, S., *see* Mondal, A., *JSYST March 2020 124-131*
Misra, S., *see* Mukherjee, A., *JSYST March 2020 1325-1332*
Misra, S., *see* Kumar, S., *JSYST Sept. 2020 3194-3201*
Mitra, B., Chowdhury, B., and Willis, A., Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform; *JSYST March 2020 1069-1079*
Mitschke, A., *see* Bachelor, G., *JSYST June 2020 1568-1579*
Mlika, A., *see* Baklouti, A., *JSYST March 2020 1512-1522*
Mlika, Z., *see* Chaieb, C., *JSYST Sept. 2020 3957-3967*
Moghaddam, M.J.H., Kalam, A., Shi, J., Nowdeh, S.A., Gandoman, F.H., and Ahmadi, A., A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses; *JSYST Sept. 2020 3530-3538*
Moghaddam, M.P., *see* Mahzarnia, M., *JSYST Sept. 2020 4059-4070*
Mohaisen, A., *see* Saad, M., *JSYST March 2020 321-332*
Mohamed, M., *see* El-Taweel, N.A., *JSYST March 2020 738-748*
Mohammadi, Z., Soleimanpour-Moghadam, M., Askarizadeh, M., and Talebi, S., Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach; *JSYST Sept. 2020 3214-3224*
Mohammadi-ivatloo, B., *see* Moradi-Dalvand, M., *JSYST June 2020 2873-2881*
Mohammadi-Ivatloo, B., *see* Mirzaei, M.A., *JSYST Sept. 2020 3598-3608*
Mohammadi-Ivatloo, B., *see* Hemmati, M., *JSYST Dec. 2020 5340-5349*
Mohammadi-Moghadam, H., *see* Gheisarnejad, M., *JSYST March 2020 1058-1068*
Mohammed, O.O., Mustafa, M.W., and Aman, M.N., A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems; *JSYST March 2020 1230-1233*
Mohanta, D.K., *see* Pal, D., *JSYST March 2020 862-869*
Mohanty, S.R., *see* Prakash, T., *JSYST June 2020 2012-2022*
Mohanty, S.R., *see* Prakash, T., *JSYST Sept. 2020 3267-3276*
Mohseni, R., *see* Karimi, V., *JSYST Sept. 2020 3630-3640*
Mokryani, G., *see* Zubo, R.H.A., *JSYST March 2020 1405-1416*
Mondal, A., *see* Roy, A., *JSYST March 2020 9-16*
Mondal, A., Misra, S., and Maity, I., AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks; *JSYST March 2020 124-131*
Moradi-Dalvand, M., Nazari-Heris, M., Mohammadi-ivatloo, B., Galavani, S., and Rabiee, A., A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch; *JSYST June 2020 2873-2881*
Mosalanezhad, R., *see* Zarei, A., *JSYST June 2020 2813-2824*
Mosavi, M.R., *see* Kaveh, M., *JSYST Sept. 2020 4535-4544*
Mostafavi, A., *see* Fan, C., *JSYST March 2020 1265-1276*
Motai, Y., *see* Benli, E., *JSYST June 2020 2937-2948*
Mousavi, Y., *see* Zarei, A., *JSYST June 2020 2813-2824*
Moutsinas, G., and Guo, W., Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks; *JSYST June 2020 2551-2556*
Mozelli, L.A., *see* Leles, M.C.R., *JSYST March 2020 1468-1478*
Mu, Y., *see* Zhang, L., *JSYST March 2020 387-397*
Muduli, L., Mishra, D.P., and Jana, P.K., Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach; *JSYST June 2020 3039-3046*
Muhlmeyer, M., Agarwal, S., and Huang, J., Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems; *JSYST Dec. 2020 5187-5198*

+ Check author entry for coauthors

Mukherjee, A., Deb, P., De, D., and Obaidat, M.S., WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System; *JSYST March 2020 353-362*
Mukherjee, A., Misra, S., and Atrish, A., MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems; *JSYST March 2020 1325-1332*
Mukherjee, M., *see* Kumar, V., *JSYST March 2020 28-38*
Mukherjee, N., Chattopadhyaya, A., Chattopadhyay, S., and Sengupta, S., Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System; *JSYST Sept. 2020 4320-4328*
Mukherjee, R., and De, A., Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor; *JSYST Sept. 2020 3836-3843*
Mundhe, P., Yadav, V.K., Verma, S., and Venkatesan, S., Efficient Lattice-Based Ring Signature for Message Authentication in VANETs; *JSYST Dec. 2020 5463-5474*
Murphy, J., *see* Chen, X., *JSYST Sept. 2020 3117-3128*
Murto, P., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Musa, A., *see* Salameh, H.A.B., *JSYST March 2020 84-92*
Mustafa, M.W., *see* Mohammed, O.O., *JSYST March 2020 1230-1233*
Muta, O., *see* Hao, W., *JSYST March 2020 673-676*
Muyeen, S.M., *see* Khalid, H.M., *JSYST June 2020 2054-2065*
Mylrea, M., *see* Gourisetti, S.N.G., *JSYST June 2020 1897-1908*

N

N, C.B., *see* Chavhan, S., *JSYST Dec. 2020 5233-5244*
N. Givigi, S., *see* Lins, R.G., *JSYST June 2020 2961-2964*
Na, C., *see* Pan, H., *JSYST Sept. 2020 3938-3948*
Naderi, M.S., *see* Abedinia, O., *JSYST Sept. 2020 4614-4625*
Naeem, M., *see* Akram, T., *JSYST Sept. 2020 3475-3482*
Naeem, W., *see* Chen, L., *JSYST Sept. 2020 3301-3312*
Nahavandi, S., *see* Qazani, M.R.C., *JSYST Dec. 2020 5073-5083*
Nair, S., *see* Horne, D., *JSYST March 2020 298-309*
Namer, M., *see* Gong, T., *JSYST Dec. 2020 5296-5307*
Nan, Y., Yi, G., Wang, C., and Tu, Z., A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines; *JSYST June 2020 1611-1622*
Naqvi, R., *see* Akram, T., *JSYST Sept. 2020 3475-3482*
Nascimento, C.L., *see* Leles, M.C.R., *JSYST March 2020 1468-1478*
Nazari-Heris, M., *see* Moradi-Dalvand, M., *JSYST June 2020 2873-2881*
Nazari-Heris, M., *see* Mirzaei, M.A., *JSYST Sept. 2020 3598-3608*
Ndiaye, M., Abu-Mahfouz, A.M., and Hancke, G.P., SDNMM—A Generic SDN-Based Modular Management System for Wireless Sensor Networks; *JSYST June 2020 2347-2357*
Neill, C.J., *see* Srinivasan, S.M., *JSYST March 2020 1353-1364*
Nelson, T., Borky, J.M., and Sega, R.M., System-of-Systems Quality Attribute-Based Architectural Alternatives; *JSYST Sept. 2020 3844-3854*
Nemati, H., Latify, M.A., and Yousefi, G.R., Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks; *JSYST March 2020 793-802*
Nesi, P., *see* Bellini, E., *JSYST March 2020 1234-1244*
Neumann, M.A., *see* McDonald, R.T., *JSYST Sept. 2020 3755-3766*
Nguyen, B.C., *see* Van Nguyen, L., *JSYST Dec. 2020 4777-4785*
Nguyen, H.X., *see* Ali, K., *JSYST June 2020 2882-2891*
Nguyen, M., *see* Hong, Y., *JSYST June 2020 2759-2769*
Nguyen, N., *see* Baklouti, A., *JSYST March 2020 1512-1522*
Ni, W., *see* Suraweera, N., *JSYST Dec. 2020 4798-4809*
Nie, H., *see* Khani, H., *JSYST June 2020 2311-2322*
Nie, X., *see* Sun, J., *JSYST June 2020 1728-1739*
Nikita, K.S., *see* Adamidi, E.S., *JSYST March 2020 1384-1394*
Niknam, T., *see* Javidsharifi, M., *JSYST June 2020 2703-2712*
Nikolovski, S., *see* Petrovic, I., *JSYST June 2020 2665-2675*
Ning, B., *see* Deng, L., *JSYST Sept. 2020 4242-4251*
Nirmalathas, A., *see* Jurado-Lasso, F.F., *JSYST June 2020 2335-2346*
Nirmalathas, A., *see* Jurado-Lasso, F.F., *JSYST Dec. 2020 4653-4662*
Niu, H., *see* Yan, Y., *JSYST Sept. 2020 3233-3244*
Niyato, D., *see* Wang, X., *JSYST Sept. 2020 4356-4367*
Noguchi, H., and Sugano, S., Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT; *JSYST Dec. 2020 5176-5186*
Nojavan, M., and Seyedi, H., Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs; *JSYST Dec. 2020 5221-5228*
Nourbakhsh, G., *see* Shafiei, M., *JSYST Dec. 2020 5265-5273*
Nouri, A., *see* Pouladi, A., *JSYST March 2020 960-970*
Nouri, A., Soroudi, A., and Keane, A., Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices; *JSYST Sept. 2020 3767-3778*
Nowdeh, S.A., *see* Moghaddam, M.J.H., *JSYST Sept. 2020 3530-3538*
Ntontin, K., and Verikoukis, C., Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks; *JSYST June 2020 2473-2484*
Nuesch, S.P., *see* Colletti, R.A., *JSYST Sept. 2020 4165-4175*
Nyang, D., *see* Saad, M., *JSYST March 2020 321-332*

O

Obaidat, M.S., *see* Roy, A., *JSYST March 2020 9-16*
Obaidat, M.S., *see* Xie, Y., *JSYST March 2020 1245-1256*
Obaidat, M.S., *see* Li, X., *JSYST March 2020 39-50*
Obaidat, M.S., *see* Misra, S., *JSYST March 2020 144-151*
Obaidat, M.S., *see* Mukherjee, A., *JSYST March 2020 353-362*
Obaidat, M.S., *see* Kaur, K., *JSYST March 2020 1195-1205*
Obaidat, M.S., *see* Wei, H., *JSYST March 2020 61-72*
Obaidat, M.S., *see* Sowjanya, K., *JSYST June 2020 2154-2163*
Obaidat, M.S., *see* Verma, G.K., *JSYST June 2020 1704-1715*
Obaidat, M.S., *see* Li, X., *JSYST Sept. 2020 3547-3557*
Oikonomou, K., and Parvania, M., Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets; *JSYST Sept. 2020 3729-3739*
Olamaei, J., *see* Rostami, A., *JSYST March 2020 813-823*
Olauson, J., Marin, M., and Soder, L., Creating Power System Network Layouts: A Fast Parallel Algorithm; *JSYST Sept. 2020 3687-3694*
Onireti, O., Zhang, L., Imran, A., and Imran, M.A., Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks; *JSYST June 2020 2520-2531*
Ornelas-Tellez, F., *see* Djilali, L., *JSYST June 2020 2825-2836*
Osama, R.A., Zobaa, A.F., and Abdelaziz, A.Y., A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids; *JSYST March 2020 916-926*
Othman, A.M., *see* Gabbar, H.A., *JSYST March 2020 824-831*
Othman, M.M., Ahmed, M.H., and Salama, M.M.A., A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation; *JSYST March 2020 699-707*
Ou, G., *see* Sang, Y., *JSYST Sept. 2020 3245-3255*
Ouyang, J., *see* Chen, P., *JSYST Sept. 2020 3801-3812*

P

Pacheco, M.A.C., *see* Pereira, C.S., *JSYST Sept. 2020 3926-3937*
Pack, S., *see* Bilal, M., *JSYST June 2020 1921-1932*
Padhy, N.P., *see* Gururaj, M.V., *JSYST Dec. 2020 4891-4900*
Padidar, P., Ho, P., and Peng, L., End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks; *JSYST Sept. 2020 4466-4476*
Padmanaban, S., *see* Priyadarshi, N., *JSYST March 2020 1218-1229*
Padmanaban, S., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Paidi, E.S.N.R., Marzooghi, H., Yu, J., and Terzija, V., Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration; *JSYST Dec. 2020 4978-4989*
Pal, D., Mallikarjuna, B., Gopakumar, P., Reddy, M.J.B., Panigrahi, B.K., and Mohanta, D.K., Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures; *JSYST March 2020 862-869*

Palisetty, R., and Ray, K.C., Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype; *JSYST June 2020 2455-2463*
Pamshetti, V.B., Singh, S., and Singh, S.P., Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation; *JSYST March 2020 995-1006*
Pan, C., *see* Liu, Y., *JSYST Sept. 2020 4406-4417*
Pan, H., Lian, H., Na, C., and Li, X., Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory; *JSYST Sept. 2020 3938-3948*
Pan, X., *see* Wang, X., *JSYST Sept. 2020 4454-4465*
Panagopoulos, A.D., *see* Lyras, N.K., *JSYST Sept. 2020 3968-3976*
Panchal, J.H., *see* Safarkhani, S., *JSYST Sept. 2020 3277-3288*
Panda, G., *see* Kumar, V.N., *JSYST Sept. 2020 4308-4319*
Pandey, A., Sequeria, R., Kumar, P., and Kumar, S., A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems; *JSYST June 2020 1953-1962*
Pang, L., Cao, Z., Yu, J., Guan, P., Chen, X., and Zhang, W., A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments; *JSYST June 2020 2965-2968*
Panigrahi, B.K., *see* Pal, D., *JSYST March 2020 862-869*
Panigrahi, B.K., *see* Khanna, K., *JSYST June 2020 1945-1952*
Panteli, M., *see* Zhou, Y., *JSYST March 2020 749-759*
Panteli, M., *see* Espinoza, S., *JSYST June 2020 2837-2848*
Paredis, C.J.J., *see* Colletti, R.A., *JSYST Sept. 2020 4165-4175*
Paredis, C.J.J., *see* Fillingim, K.B., *JSYST Dec. 2020 5148-5159*
Park, L.H., Yu, J., Kang, H., Lee, T., and Kwon, T., Birds of a *Feature:* Intrafamily Clustering for Version Identification of Packed Malware; *JSYST Sept. 2020 4545-4556*
Park, S., *see* Yang, T., *JSYST June 2020 3057-3060*
Parvania, M., *see* Senemar, S., *JSYST March 2020 832-841*
Parvania, M., *see* Khatami, R., *JSYST Sept. 2020 3855-3864*
Parvania, M., *see* Oikonomou, K., *JSYST Sept. 2020 3729-3739*
Parvizimosaed, M., and Zhuang, W., Enhanced Active and Reactive Power Sharing in Islanded Microgrids; *JSYST Dec. 2020 5037-5048*
Patangia, H., *see* Gourisetti, S.N.G., *JSYST June 2020 1897-1908*
Paul, A., Banerjee, A., and Maity, S.P., Residual Energy Maximization in Cognitive Radio Networks With Q-Routing; *JSYST Sept. 2020 3791-3800*
Pawar, P., Trivedi, A., and Mishra, M.K., Outage and ASE Analyses for Power Controlled D2D Communication; *JSYST June 2020 2269-2280*
Pazoki, M., *see* Chaitanya, B.K., *JSYST March 2020 870-879*
Pecci, F., *see* Ulusoy, A., *JSYST Sept. 2020 4579-4590*
Pei, Q., *see* Ju, Y., *JSYST Dec. 2020 5121-5132*
Pei, T., *see* Zhan, Y., *JSYST March 2020 592-602*
Pelegrin, M., *see* Carrizosa, E., *JSYST Sept. 2020 3916-3925*
Pendem, S.R., Mikkili, S., and Bonthagorla, P.K., PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs; *JSYST March 2020 1046-1057*
Peng, J., *see* Li, X., *JSYST March 2020 39-50*
Peng, J.C., *see* Khalid, H.M., *JSYST June 2020 2054-2065*
Peng, J.C., *see* Khalid, H.M., *JSYST Sept. 2020 3665-3675*
Peng, L., *see* Padidar, P., *JSYST Sept. 2020 4466-4476*
Peng, M., *see* Gao, X., *JSYST Sept. 2020 4626-4637*
Pereira, C.S., Dias, D.M., Pacheco, M.A.C., Vellasco, M.M.B.R., Abs da Cruz, A.V., and Hollmann, E.H., Quantum-Inspired Genetic Programming Algorithm for the Crude Oil Scheduling of a Real-World Refinery; *JSYST Sept. 2020 3926-3937*
Pessin, G., *see* da Silva, J.M., *JSYST March 2020 1183-1194*
Petrovic, I., Nikolovski, S., Baghaee, H.R., and Glavas, H., Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making; *JSYST June 2020 2665-2675*
Peyghami, S., Fotuhi-Firuzabad, M., and Blaabjerg, F., Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units; *JSYST June 2020 2861-2872*
Phung, M.D., *see* Hoang, V.T., *JSYST June 2020 2925-2936*
Pietrabissa, A., *see* Liberati, F., *JSYST Sept. 2020 3586-3597*
Ping, Y., *see* Ma, C., *JSYST June 2020 1992-2002*
Pino, F., *see* Gabbar, H.A., *JSYST March 2020 824-831*
Piran, M.J., *see* Saber, M.J., *JSYST Sept. 2020 4402-4405*
Pitchaimuthu, R., *see* Ramachandran, V., *JSYST March 2020 708-717*
Pitsillides, A., *see* Ioannou, I., *JSYST Sept. 2020 4232-4241*
Plataniotis, K.N., *see* Spachos, P., *JSYST Sept. 2020 3483-3493*
Plataniotis, K.N., *see* Mackey, A., *JSYST Sept. 2020 3371-3382*
Poor, H.V., *see* Camponogara, A., *JSYST Dec. 2020 4901-4910*
Poudel, S., Dubey, A., and Bose, A., Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience; *JSYST Sept. 2020 3506-3517*
Pouladi, A., Zadeh, A.K., and Nouri, A., Control of Parallel ULTC Transformers in Active Distribution Systems; *JSYST March 2020 960-970*
Poulos, A., *see* Espinoza, S., *JSYST June 2020 2837-2848*
Pourahmadi, F., Heidarabadi, H., Hosseini, S.H., and Dehghanian, P., Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment; *JSYST March 2020 718-728*
Pouresmaeil, E., *see* Rostami, A., *JSYST March 2020 813-823*
Povinelli, K., *see* Das, P., *JSYST Dec. 2020 4842-4853*
Prakash, T., Singh, V.P., and Mohanty, S.R., Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints; *JSYST June 2020 2012-2022*
Prakash, T., Mohanty, S.R., and Singh, V.P., PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics; *JSYST Sept. 2020 3267-3276*
Prasad, R.V., *see* Joshi, K.C., *JSYST June 2020 2144-2153*
Prasanna, A.L., Kumar, V., and Dhok, S.B., Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs; *JSYST June 2020 2293-2302*
Priyadarshi, N., Padmanaban, S., Holm-Nielsen, J.B., Blaabjerg, F., and Bhaskar, M.S., An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance; *JSYST March 2020 1218-1229*
Priyadarshi, N., Padmanaban, S., Bhaskar, M.S., Blaabjerg, F., Holm-Nielsen, J.B., Azam, F., and Sharma, A.K., A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme; *JSYST Sept. 2020 3334-3342*
Pu, C., *see* Jung, B., *JSYST June 2020 1852-1861*
Punzo, G., Tewari, A., Butans, E., Vasile, M., Purvis, A., Mayfield, M., and Varga, L., Engineering Resilient Complex Systems: The Necessary Shift Toward Complexity Science; *JSYST Sept. 2020 3865-3874*
Purvis, A., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*

Q

Qamar, A., *see* Colletti, R.A., *JSYST Sept. 2020 4165-4175*
Qazani, M.R.C., Asadi, H., and Nahavandi, S., High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm; *JSYST Dec. 2020 5073-5083*
Qi, Q., *see* Zhuang, Z., *JSYST June 2020 1658-1669*
Qin, J., *see* Hu, D., *JSYST June 2020 2949-2960*
Qin, J., *see* Lai, X., *JSYST Sept. 2020 3410-3413*
Qiu, Y., *see* Wang, J., *JSYST Sept. 2020 4176-4187*
Qu, H., Xu, X., Zhao, J., Yan, F., and Wang, W., A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System; *JSYST Sept. 2020 3161-3172*
Qu, Q., *see* Zhan, Y., *JSYST March 2020 592-602*
Quan, W., *see* Wang, K., *JSYST June 2020 1862-1873*
Quek, Y.T., Woo, W.L., and Logenthiran, T., Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network; *JSYST March 2020 1395-1404*
Qureshi, K.I., Wang, L., Sun, L., Zhu, C., and Shu, L., A Review on Design and Implementation of Software-Defined WLANs; *JSYST June 2020 2601-2614*

R

Rabiee, A., *see* Moradi-Dalvand, M., *JSYST June 2020 2873-2881*

Rabiee, H.R., *see* Doostmohammadian, M., *JSYST March 2020 73-83*
Rafat, Y., *see* Shariff, S.M., *JSYST June 2020 2748-2758*
Rahman, Z., Zafaruddin, S.M., and Chaubey, V.K., Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels; *JSYST Sept. 2020 4036-4046*
Rahnamay-Naeini, M., *see* Das, P., *JSYST Dec. 2020 4842-4853*
Rai, M.K., *see* Kumar, G., *JSYST Sept. 2020 3949-3956*
Rajabalizadeh, S., and Tafreshi, S.M.M., A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems; *JSYST Dec. 2020 4911-4918*
Rajamanickam, S., Vollala, S., Amin, R., and Ramasubramanian, N., Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC; *JSYST June 2020 1972-1983*
Ramachandran, V., Pitchaimuthu, R., and Selvan, M.P., Systematized Active Power Control of PMSG-Based Wind-Driven Generators; *JSYST March 2020 708-717*
Ramasubramanian, N., *see* Rajamanickam, S., *JSYST June 2020 1972-1983*
Ramirez-Marquez, J.E., *see* Zavala, A., *JSYST Dec. 2020 5049-5060*
Ranjbar, A.M., *see* Hosseini, S.A., *JSYST March 2020 1125-1134*
Ranjbar, A.M., *see* Toulabi, M., *JSYST June 2020 2615-2623*
Rao, J.T., and Bhalja, B., A New Phase Angle of Superimposed Positive Sequence Current-Based Discrimination Scheme for Prevention of Maloperation of Distance Relay During Severe Stressed Conditions; *JSYST Sept. 2020 3705-3716*
Rao, S., *see* Chaturvedi, K., *JSYST June 2020 1682-1691*
Rastegar, M., *see* Senemar, S., *JSYST March 2020 832-841*
Rathee, M., *see* Kumar, S., *JSYST Dec. 2020 4663-4673*
Rauf, B., *see* Bangash, Y.A., *JSYST Sept. 2020 4489-4499*
Raut, P., Kaple, T., and Sharma, P.K., Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading; *JSYST Sept. 2020 3390-3398*
Ray, K.C., *see* Palisetty, R., *JSYST June 2020 2455-2463*
Ray, S., *see* Sowjanya, K., *JSYST June 2020 2154-2163*
Raza, M., *see* Ali, K., *JSYST June 2020 2882-2891*
Raza, S.M., *see* Challa, R., *JSYST March 2020 657-660*
Reddy, M.J.B., *see* Pal, D., *JSYST March 2020 862-869*
Rehioui, H., and Idrissi, A., New Clustering Algorithms for Twitter Sentiment Analysis; *JSYST March 2020 530-537*
Rehman, S.u., *see* Liu, M., *JSYST March 2020 582-591*
Ren, G., *see* Zhao, B., *JSYST Sept. 2020 4089-4100*
Repetto, M., *see* Gabbar, H.A., *JSYST March 2020 824-831*
Requena-Carrion, J., *see* Yang, J., *JSYST March 2020 172-183*
Retiere, N., Ha, D.T., and Caputo, J., Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks; *JSYST June 2020 2736-2747*
Rezaee, H., and Abdollahi, F., Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models; *JSYST Sept. 2020 3539-3546*
Ribeiro, M.V., *see* De M. B. A. Dib, L., *JSYST June 2020 2164-2174*
Ribeiro, M.V., *see* Camponogara, A., *JSYST Dec. 2020 4901-4910*
Ribeiro, M.V., *see* Colen, G.R., *JSYST Dec. 2020 5284-5295*
Richardson, R.A., *see* Zhai, X., *JSYST June 2020 1592-1601*
Rivera, J., *see* Saleem, D., *JSYST March 2020 17-27*
Roddy, S.A., *see* Hartong, M.W., *JSYST Dec. 2020 5308-5319*
Rodrigues, J.J.P.C., *see* Teles, G., *JSYST Sept. 2020 4557-4566*
Rodrigues, J.J.P.C., *see* Chavhan, S., *JSYST Dec. 2020 5233-5244*
Roeland, D., *see* Alabbasi, A., *JSYST March 2020 398-409*
Rogers, J., *see* Benli, E., *JSYST June 2020 2937-2948*
Roh, H., *see* Yang, T., *JSYST June 2020 3057-3060*
Roozitalab, F., *see* Li, G., *JSYST Dec. 2020 4967-4977*
Rostami, A., Jalilian, A., Zabihi, S., Olamaei, J., and Pouresmaeil, E., Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching; *JSYST March 2020 813-823*
Rostami, M., Kiaei, I., and Lotfifard, S., Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise; *JSYST March 2020 1088-1097*
Rouis, T.S., Bhiri, M.T., Sliman, L., and Kmimech, M., An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components; *JSYST June 2020 1647-1657*
Rouse, W.B., *see* Liu, C., *JSYST March 2020 1365-1374*
Routtenberg, T., *see* Drayer, E., *JSYST June 2020 1886-1896*
Roy, A., Mondal, A., Misra, S., and Obaidat, M.S., ORCID: Opportunistic Reconnectivity for Network Management in the Presence of Dumb Nodes in Wireless Sensor Networks; *JSYST March 2020 9-16*
Roy, A., *see* Misra, S., *JSYST March 2020 144-151*
Roy, A., *see* Mathew, A., *JSYST Dec. 2020 5362-5372*
Roy, S.D., and Debbarma, S., Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid; *JSYST June 2020 2023-2031*
Roy, S.K., *see* Misra, S., *JSYST March 2020 144-151*
Rudnick, H., *see* Espinoza, S., *JSYST June 2020 2837-2848*

S

S., N., K.N., S., E.A., J., and Ahamed, T.P.I., Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids; *JSYST March 2020 1007-1014*
Saad, M., Choi, J., Nyang, D., Kim, J., and Mohaisen, A., Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions; *JSYST March 2020 321-332*
Saber, M.J., Mazloum, J., Sazdar, A.M., Keshavarz, A., and Piran, M.J., On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting; *JSYST Sept. 2020 4402-4405*
Sabouhi, H., Doroudi, A., Fotuhi-Firuzabad, M., and Bashiri, M., Electrical Power System Resilience Assessment: A Comprehensive Approach; *JSYST June 2020 2643-2652*
Sadeghkhani, I., *see* Allahdadi, K., *JSYST Dec. 2020 5172-5175*
Sadelli, L., *see* Fruchard, M., *JSYST June 2020 2892-2900*
Safarkhani, S., Bilionis, I., and Panchal, J.H., Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process; *JSYST Sept. 2020 3277-3288*
Safdar, G.A., *see* Syed, T.S., *JSYST March 2020 288-297*
Saha, R., *see* Kumar, G., *JSYST Sept. 2020 3949-3956*
Saha, T.K., *see* Kumar, N., *JSYST March 2020 909-915*
Sahoo, A.K., *see* Mahmud, K., *JSYST Sept. 2020 3641-3652*
Sahraei-Ardakani, M., *see* Sang, Y., *JSYST Sept. 2020 3245-3255*
Saif, M., *see* Kordestani, M., *JSYST Sept. 2020 3813-3824*
Saif, M., *see* Kordestani, M., *JSYST Dec. 2020 5407-5416*
Salado, A., *see* Farkhondehmaal, F., *JSYST Sept. 2020 3225-3232*
Salama, M.M.A., *see* Othman, M.M., *JSYST March 2020 699-707*
Salameh, H.A.B., Mahdawi, L., Musa, A., and Hailat, T.F., End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels; *JSYST March 2020 84-92*
Saleem, D., Sundararajan, A., Sanghvi, A., Rivera, J., Sarwat, A.I., and Kroposki, B., A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems; *JSYST March 2020 17-27*
Saleem, K., *see* Teles, G., *JSYST Sept. 2020 4557-4566*
Saleh, K.A., Hooshyar, A., El-Saadany, E.F., and Zeineldin, H.H., Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics; *JSYST Sept. 2020 4284-4295*
Salous, S., *see* Shi, C., *JSYST March 2020 983-994*
Samadi, M.F., *see* Kordestani, M., *JSYST Dec. 2020 5407-5416*
Samadi, S., *see* Karimi, V., *JSYST Sept. 2020 3630-3640*
Samet, H., *see* Fatemi, S.S., *JSYST March 2020 950-959*
Samet, H., *see* Jarrahi, M.A., *JSYST Sept. 2020 3987-3998*
Sanchez, E.N., *see* Djilali, L., *JSYST June 2020 2825-2836*
Sandhya, K., Ghose, T., Kumar, D., and Chatterjee, K., PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster; *JSYST Dec. 2020 5160-5171*
Sang, Y., Xue, J., Sahraei-Ardakani, M., and Ou, G., An Integrated Preventive Operation Framework for Power Systems During Hurricanes; *JSYST Sept. 2020 3245-3255*
Sanghvi, A., *see* Saleem, D., *JSYST March 2020 17-27*
Sangwan, R.S., *see* Srinivasan, S.M., *JSYST March 2020 1353-1364*

Sanjeevikumar, P., *see* Mahmud, K., *JSYST Sept. 2020 3641-3652*
Santos, J.V.C.d., *see* da Silva, J.M., *JSYST March 2020 1183-1194*
Santos, R.B., *see* Cai, Y., *JSYST Sept. 2020 3072-3081*
Sarkar, V., *see* Babu, G.V.N.Y., *JSYST Dec. 2020 5084-5095*
Sarker, M.A.L., Kader, M.F., and Han, D.S., Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme; *JSYST Sept. 2020 3582-3585*
Sarwat, A.I., *see* Saleem, D., *JSYST March 2020 17-27*
Sato-Shimokawara, E., *see* Chan, R.Y., *JSYST March 2020 208-219*
Savkin, A.V., and Huang, H., Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area; *JSYST Dec. 2020 4746-4749*
Sazdar, A.M., *see* Saber, M.J., *JSYST Sept. 2020 4402-4405*
Sbruzzi, E.F., *see* Leles, M.C.R., *JSYST March 2020 1468-1478*
Schwella, E., *see* Malisa, R., *JSYST March 2020 1523-1530*
Sega, R.M., *see* Nelson, T., *JSYST Sept. 2020 3844-3854*
Sehgal, A., *see* Gupta, N., *JSYST June 2020 2400-2410*
Seifi, A.R., *see* Senemar, S., *JSYST March 2020 832-841*
Selim, B., *see* Alam, M.S., *JSYST Sept. 2020 4079-4088*
Sellathurai, M., *see* Shi, C., *JSYST March 2020 983-994*
Selvan, M.P., *see* Ramachandran, V., *JSYST March 2020 708-717*
Sen, S., and Kumar, V., Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties; *JSYST June 2020 2653-2664*
Sen, S., and Kumar, V., Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties; *JSYST Sept. 2020 4418-4429*
Senarathne, P.G.C.N., *see* Yue, Y., *JSYST March 2020 1341-1352*
Senemar, S., Seifi, A.R., Rastegar, M., and Parvania, M., Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs; *JSYST March 2020 832-841*
Sengupta, S., *see* Mukherjee, N., *JSYST Sept. 2020 4320-4328*
Sequeria, R., *see* Pandey, A., *JSYST June 2020 1953-1962*
Seyedi, H., *see* Nojavan, M., *JSYST Dec. 2020 5221-5228*
Sha, E.H., *see* Wu, T., *JSYST Dec. 2020 5429-5440*
Shafie, A.E., *see* Mabrouk, A., *JSYST March 2020 665-668*
Shafie, A.E., *see* Chen, P., *JSYST Sept. 2020 3801-3812*
Shafie-khah, M., *see* Javidsharifi, M., *JSYST June 2020 2703-2712*
Shafiei, M., Golestaneh, F., Ledwich, G., Nourbakhsh, G., Gooi, H.B., and Arefi, A., Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data; *JSYST Dec. 2020 5265-5273*
Shah, P., *see* Ali, K., *JSYST June 2020 2882-2891*
Shaikh, M.H.N., Bohara, V.A., Aggarwal, P., and Srivastava, A., Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling; *JSYST Sept. 2020 3313-3324*
Shan, A., *see* Xu, X., *JSYST Sept. 2020 3399-3409*
Shang, Y., Consensus and Clustering of Expressed and Private Opinions in Dynamical Networks Against Attacks; *JSYST June 2020 2078-2084*
Shangguan, L., and Gopalswamy, S., Health Monitoring for Cyber Physical Systems; *JSYST March 2020 1457-1467*
Shao, J., *see* Song, J., *JSYST March 2020 900-908*
Shapiro, H., *see* Fillingim, K.B., *JSYST Dec. 2020 5148-5159*
Sharif, B., *see* Kalbat, F., *JSYST June 2020 2237-2248*
Shariff, S.M., Alam, M.S., Ahmad, F., Rafat, Y., Asghar, M.S.J., and Khan, S., System Design and Realization of a Solar-Powered Electric Vehicle Charging Station; *JSYST June 2020 2748-2758*
Sharma, A., *see* Kapoor, A., *JSYST Sept. 2020 3825-3835*
Sharma, A.K., *see* Priyadarshi, N., *JSYST Sept. 2020 3334-3342*
Sharma, D., and Mishra, S., Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems; *JSYST March 2020 782-792*
Sharma, P.K., *see* Raut, P., *JSYST Sept. 2020 3390-3398*
Shaw, L., *see* Meluso, J., *JSYST Sept. 2020 3463-3474*
Shen, D., Wu, H., Xia, B., and Gan, D., Polynomial Chaos Expansion for Parametric Problems in Engineering Systems: A Review; *JSYST Sept. 2020 4500-4514*
Shen, G., *see* Su, Y., *JSYST June 2020 1963-1971*
Shen, Z., *see* Xu, K., *JSYST March 2020 93-104*
Shi, C., Wang, F., Sellathurai, M., Zhou, J., and Salous, S., Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System; *JSYST March 2020 983-994*
Shi, J., *see* Dai, J., *JSYST June 2020 2421-2431*
Shi, J., *see* Moghaddam, M.J.H., *JSYST Sept. 2020 3530-3538*
Shi, L., *see* Lyu, Z., *JSYST Sept. 2020 3518-3529*
Shi, Z., *see* Lu, H., *JSYST Dec. 2020 5002-5013*
Shih, T.K., *see* Zhang, C., *JSYST June 2020 1840-1851*
Shihada, B., *see* Ahmad, E., *JSYST March 2020 232-243*
Shivhare, A., Singh, V.K., and Kumar, M., Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT; *JSYST Dec. 2020 4854-4863*
Shlezinger, N., *see* Gong, T., *JSYST Dec. 2020 5296-5307*
Shu, F., *see* Gui, L., *JSYST June 2020 2980-2989*
Shu, F., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Shu, L., *see* Wang, Y., *JSYST March 2020 477-488*
Shu, L., *see* Qureshi, K.I., *JSYST June 2020 2601-2614*
Shuvro, R.A., *see* Das, P., *JSYST Dec. 2020 4842-4853*
Siala, H., Mhenni, F., Choley, J., Barkallah, M., Louati, J., and Haddar, M., Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach; *JSYST Sept. 2020 3977-3986*
Siala, M., *see* Ayadi, R., *JSYST March 2020 603-613*
Siano, P., *see* Liu, S., *JSYST June 2020 2593-2596*
Siano, P., *see* Kumar, V.N., *JSYST Sept. 2020 4308-4319*
Siano, P., *see* Mahzarnia, M., *JSYST Sept. 2020 4059-4070*
Sikdar, B., *see* Gope, P., *JSYST March 2020 343-352*
Sillitto, H., *see* Dori, D., *JSYST June 2020 1538-1548*
Silva, E., *see* Kohler, M., *JSYST Dec. 2020 5111-5120*
Silva, R.d.A., and Braga, R.T.V., Simulating Systems-of-Systems With Agent-Based Modeling: A Systematic Literature Review; *JSYST Sept. 2020 3609-3617*
Sim, Y., and Cho, D., Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access; *JSYST Dec. 2020 5245-5252*
Simon, B.J., *see* Bakirtzis, G., *JSYST Dec. 2020 4864-4873*
Singh, B.B., *see* Verma, G.K., *JSYST March 2020 621-632*
Singh, B.B., *see* Verma, G.K., *JSYST June 2020 1704-1715*
Singh, C., *see* Urgun, D., *JSYST June 2020 2791-2800*
Singh, P., Bishnoi, S.K., and Meena, N.K., Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems; *JSYST March 2020 880-888*
Singh, S., *see* Pamshetti, V.B., *JSYST March 2020 995-1006*
Singh, S.P., *see* Pamshetti, V.B., *JSYST March 2020 995-1006*
Singh, V.K., *see* Shivhare, A., *JSYST Dec. 2020 4854-4863*
Singh, V.P., *see* Prakash, T., *JSYST June 2020 2012-2022*
Singh, V.P., *see* Prakash, T., *JSYST Sept. 2020 3267-3276*
Sivasubramani, S., *see* Bhamidi, L., *JSYST June 2020 2624-2632*
Sliman, L., *see* Rouis, T.S., *JSYST June 2020 1647-1657*
So-In, C., *see* Vo, V.N., *JSYST Dec. 2020 4955-4966*
Sobral, J.B.M., *see* Vieira, K., *JSYST June 2020 1984-1991*
Soder, L., *see* Olauson, J., *JSYST Sept. 2020 3687-3694*
Sodhi, R., *see* Bansal, Y., *JSYST Sept. 2020 4567-4578*
Soh, C.B., *see* Chen, X., *JSYST Dec. 2020 5396-5406*
Soleimanpour-Moghadam, M., *see* Mohammadi, Z., *JSYST Sept. 2020 3214-3224*
Soneji, S., *see* Zavala, A., *JSYST Dec. 2020 5049-5060*
Song, J., Liu, Y., Shao, J., and Tang, C., A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid; *JSYST March 2020 900-908*
Song, R., *see* Dai, J., *JSYST June 2020 2421-2431*
Song, R., *see* Dai, J., *JSYST Dec. 2020 4832-4841*
Song, T., *see* Wu, J., *JSYST June 2020 2532-2543*
Song, W., *see* Clemente, J., *JSYST March 2020 1277-1284*
Song, W., *see* Li, F., *JSYST Sept. 2020 3383-3389*
Song, X., *see* Chai, R., *JSYST Dec. 2020 5350-5361*
Sood, S.K., *see* Kaur, H., *JSYST June 2020 2003-2011*

Soroudi, A., *see* Nouri, A., *JSYST Sept. 2020 3767-3778*
Sowjanya, K., Dasgupta, M., Ray, S., and Obaidat, M.S., An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things; *JSYST June 2020 2154-2163*
Spachos, P., and Plataniotis, K.N., BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum; *JSYST Sept. 2020 3483-3493*
Spachos, P., *see* Mackey, A., *JSYST Sept. 2020 3371-3382*
Srinivasan, S.M., Kilicay-Ergin, N.H., Sangwan, R.S., and Neill, C.J., Ranking Critical Activities in Complex System Development Projects; *JSYST March 2020 1353-1364*
Srivastava, A., *see* Shaikh, M.H.N., *JSYST Sept. 2020 3313-3324*
Srivastava, S.C., *see* Meghwani, A., *JSYST March 2020 1159-1170*
Stoianov, I., *see* Ulusoy, A., *JSYST Sept. 2020 4579-4590*
Stuban, S.M.F., *see* Confrey, J., *JSYST March 2020 1135-1146*
Sturgis, M., and Alleyne, M., Bee-Inspired Evaluation Algorithm Leads to Improved Decision Making in Groups; *JSYST March 2020 1427-1434*
Su, X., *see* Liu, J., *JSYST March 2020 1503-1511*
Su, Y., Shen, G., and Zhang, M., A Novel Privacy-Preserving Authentication Scheme for V2G Networks; *JSYST June 2020 1963-1971*
Su, Y., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Su, Z., *see* Wu, J., *JSYST March 2020 1479-1490*
Su, Z., *see* Wu, J., *JSYST Dec. 2020 5210-5220*
Subrahmanian, V.S., *see* Chen, H., *JSYST Sept. 2020 3779-3790*
Sugano, S., *see* Noguchi, H., *JSYST Dec. 2020 5176-5186*
Suhardi, *see* Kurniawan, N.B., *JSYST Sept. 2020 3105-3116*
Sun, G., *see* Hao, W., *JSYST March 2020 673-676*
Sun, G., Boateng, G.O., Ayepah-Mensah, D., Liu, G., and Wei, J., Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning; *JSYST Dec. 2020 4694-4705*
Sun, H., *see* Zhuang, Z., *JSYST June 2020 1658-1669*
Sun, H., *see* Anwar, S., *JSYST Sept. 2020 3875-3884*
Sun, J., Hu, S., Nie, X., and Walker, J., Efficient Ranked Multi-Keyword Retrieval With Privacy Protection for Multiple Data Owners in Cloud Computing; *JSYST June 2020 1728-1739*
Sun, J., *see* Zhang, G., *JSYST Sept. 2020 4638-4647*
Sun, L., *see* Chen, T., *JSYST March 2020 771-781*
Sun, L., *see* Qureshi, K.I., *JSYST June 2020 2601-2614*
Sun, L., Chen, T., Ho, W.K., Ling, K.V., and Maciejowski, J.M., Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems; *JSYST June 2020 2801-2812*
Sun, M., Jin, M., Guo, Q., and Li, Y., Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users; *JSYST June 2020 2432-2442*
Sun, W., *see* Tian, M., *JSYST June 2020 2597-2600*
Sun, Y., *see* Yang, J., *JSYST March 2020 172-183*
Sun, Y., *see* Wei, H., *JSYST March 2020 61-72*
Sun, Y., *see* Yang, D., *JSYST Sept. 2020 4477-4488*
Sundararajan, A., *see* Saleem, D., *JSYST March 2020 17-27*
Suraweera, N., Li, S., Johnson, M., Collings, I.B., Hanly, S.V., Ni, W., and Hedley, M., Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers; *JSYST Dec. 2020 4798-4809*
Syed, T.S., and Safdar, G.A., Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks; *JSYST March 2020 288-297*

T

Tafreshi, S.M.M., *see* Rajabalizadeh, S., *JSYST Dec. 2020 4911-4918*
Tai, X., *see* Li, J., *JSYST March 2020 433-444*
Talebi, S., *see* Mohammadi, Z., *JSYST Sept. 2020 3214-3224*
Tan, F., *see* Zhou, L., *JSYST June 2020 2508-2519*
Tan, S., Guerrero, J.M., Xie, P., Han, R., and Vasquez, J.C., Brief Survey on Attack Detection Methods for Cyber-Physical Systems; *JSYST Dec. 2020 5329-5339*
Tan, W., *see* Zhao, L., *JSYST Sept. 2020 3904-3915*
Tan, X., *see* Huang, K., *JSYST Sept. 2020 4329-4339*
Tan, X., *see* Xing, L., *JSYST Sept. 2020 4252-4261*
Tang, C., *see* Song, J., *JSYST March 2020 900-908*
Tang, M., *see* Wang, T., *JSYST March 2020 410-421*
Tang, M., *see* Zhou, R., *JSYST June 2020 2990-3000*
Tang, Y., *see* Lin, D., *JSYST June 2020 1716-1727*
Tang, Y.Y., *see* Yang, L., *JSYST June 2020 1623-1634*
Tao, H.Y.S., *see* Zavala, A., *JSYST Dec. 2020 5049-5060*
Tao, X., Lu, J., Chen, D., and Torngren, M., Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty; *JSYST Sept. 2020 3256-3266*
Tarable, A., and Escribano, F.J., Chaos-Based Anytime-Reliable Coded Communications; *JSYST June 2020 2214-2224*
Teles, G., Rodrigues, J.J.P.C., Saleem, K., and Kozlov, S.A., Classification Methods Applied to Credit Scoring With Collateral; *JSYST Sept. 2020 4557-4566*
Terzija, V., *see* Paidi, E.S.N.R., *JSYST Dec. 2020 4978-4989*
Tewari, A., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*
Thomas, R., *see* Kumar, G., *JSYST Sept. 2020 3949-3956*
Tian, G., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Tian, H., *see* Fan, B., *JSYST June 2020 2097-2108*
Tian, M., Sun, W., Huang, L., Zhao, S., and Li, Q., Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer; *JSYST June 2020 2597-2600*
Tian, M., *see* Zhao, S., *JSYST Dec. 2020 5144-5147*
Tian, X., Liu, Q., Wang, Z., and Li, M., Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems; *JSYST March 2020 548-559*
Tiwari, A., *see* Chaturvedi, A., *JSYST Sept. 2020 4007-4014*
Tong, J., *see* Gao, D., *JSYST Dec. 2020 4674-4683*
Tong, K., *see* Li, T., *JSYST June 2020 1692-1703*
Torngren, M., *see* Lu, J., *JSYST March 2020 1297-1308*
Torngren, M., *see* Tao, X., *JSYST Sept. 2020 3256-3266*
Toulabi, M., *see* Hosseini, S.A., *JSYST March 2020 1125-1134*
Toulabi, M., Ashouri-Zadeh, A., Kazari, H., and Ranjbar, A.M., Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs; *JSYST June 2020 2615-2623*
Tourki, K., *see* Mabrouk, A., *JSYST March 2020 665-668*
Tran, D., Tran, H., Ha, D., and Kaddoum, G., Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels; *JSYST March 2020 253-264*
Tran, D., *see* Vo, V.N., *JSYST Dec. 2020 4955-4966*
Tran, H., *see* Tran, D., *JSYST March 2020 253-264*
Tran, H., *see* Vo, V.N., *JSYST Dec. 2020 4955-4966*
Tran, X.N., *see* Van Nguyen, L., *JSYST Dec. 2020 4777-4785*
Trivedi, A., *see* Pawar, P., *JSYST June 2020 2269-2280*
Tsai, Z., *see* Lin, F.P., *JSYST March 2020 265-276*
Tse, C.K., *see* Wang, J.V., *JSYST March 2020 152-163*
Tse, C.K., *see* Gao, X., *JSYST Sept. 2020 4626-4637*
Tse, C.K., *see* Wang, W., *JSYST Dec. 2020 5475-5485*
Tse, Z., *see* Li, F., *JSYST Sept. 2020 3383-3389*
Tseng, K.J., *see* Chen, X., *JSYST Dec. 2020 5396-5406*
Tseng, S., Chen, Y., and Fang, H., Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems; *JSYST Sept. 2020 3351-3359*
Tu, S., *see* Liu, M., *JSYST March 2020 582-591*
Tu, Z., *see* Nan, Y., *JSYST June 2020 1611-1622*
Tuan, P.V., and Koo, I., Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models; *JSYST March 2020 457-468*
Tushar, M.H.K., *see* Kabir, M.E., *JSYST Sept. 2020 4221-4231*
Tyagi, B., *see* Kumar, M., *JSYST Sept. 2020 4143-4154*

U

U., L., *see* Chen, J., *JSYST March 2020 244-252*
Uhlemann, E., *see* Vo, V.N., *JSYST Dec. 2020 4955-4966*
Uluda, Y., *see* Evin, E., *JSYST Sept. 2020 3139-3149*

Ulusoy, A., Pecci, F., and Stoianov, I., An MINLP-Based Approach for the Design-for-Control of Resilient Water Supply Systems; *JSYST Sept. 2020 4579-4590*
Urgun, D., Singh, C., and Vittal, V., Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation; *JSYST June 2020 2791-2800*
Ustun, T.S., *see* Aftab, M.A., *JSYST June 2020 2676-2683*

V

Vaezi, K., and Ashtiani, F., Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach; *JSYST June 2020 2257-2268*
Vafamand, N., Asemani, M.H., Dragicevic, T., Blaabjerg, F., and Khooban, M.H., Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network; *JSYST Sept. 2020 4025-4035*
Valero, M., *see* Clemente, J., *JSYST March 2020 1277-1284*
Valero, M., *see* Li, F., *JSYST Sept. 2020 3383-3389*
Van, L., Lin, Y., Wu, T., and Lin, Y., An Intelligent Elevator Development and Management System; *JSYST June 2020 3015-3026*
Van Nguyen, L., Nguyen, B.C., Tran, X.N., and Dung, L.T., Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System; *JSYST Dec. 2020 4777-4785*
Varga, L., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*
Vasilakos, A.V., *see* Gan, W., *JSYST Sept. 2020 4442-4453*
Vasile, M., *see* Punzo, G., *JSYST Sept. 2020 3865-3874*
Vasquez, J.C., *see* Tan, S., *JSYST Dec. 2020 5329-5339*
Vassiliou, V., *see* Ioannou, I., *JSYST Sept. 2020 4232-4241*
Vellasco, M., *see* Kohler, M., *JSYST Dec. 2020 5111-5120*
Vellasco, M.M.B.R., *see* Pereira, C.S., *JSYST Sept. 2020 3926-3937*
Venkatesan, S., *see* Mundhe, P., *JSYST Dec. 2020 5463-5474*
Verikoukis, C., *see* Ntontin, K., *JSYST June 2020 2473-2484*
Verma, G.K., Singh, B.B., Kumar, N., and He, D., CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs; *JSYST March 2020 621-632*
Verma, G.K., Singh, B.B., Kumar, N., Kaiwartya, O., and Obaidat, M.S., PFC-BAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System; *JSYST June 2020 1704-1715*
Verma, S., *see* Mundhe, P., *JSYST Dec. 2020 5463-5474*
Vieira, K., Koch, F.L., Sobral, J.B.M., Westphall, C.B., and Leao, J.L.D.S., Autonomic Intrusion Detection and Response Using Big Data; *JSYST June 2020 1984-1991*
Vien, Q., *see* Ali, K., *JSYST June 2020 2882-2891*
Vijayakumar, P., *see* Li, X., *JSYST Sept. 2020 3547-3557*
Vittal, V., *see* Urgun, D., *JSYST June 2020 2791-2800*
Vo, V.N., Tran, H., Dao, V., So-In, C., Tran, D., and Uhlemann, E., On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack; *JSYST Dec. 2020 4955-4966*
Vollala, S., *see* Rajamanickam, S., *JSYST June 2020 1972-1983*
Vuppala, S., Mady, A.E., and Kuenzi, A., Moving Target Defense Mechanism for Side-Channel Attacks; *JSYST June 2020 1810-1819*

W

Wadie, F., *see* Ebrahim, M.A., *JSYST Sept. 2020 3893-3903*
Walker, J., *see* Sun, J., *JSYST June 2020 1728-1739*
Wang, B., *see* Zhan, Y., *JSYST March 2020 592-602*
Wang, B., *see* Zhou, Y., *JSYST March 2020 749-759*
Wang, B., *see* Zhang, H., *JSYST March 2020 445-456*
Wang, B., *see* Ma, C., *JSYST June 2020 1992-2002*
Wang, C., *see* Nan, Y., *JSYST June 2020 1611-1622*
Wang, C., *see* Chen, J., *JSYST Sept. 2020 3570-3581*
Wang, C., *see* Wang, J., *JSYST Sept. 2020 3325-3333*
Wang, D., *see* Yue, Y., *JSYST March 2020 1341-1352*
Wang, E., *see* Chvojka, P., *JSYST June 2020 2544-2550*
Wang, F., *see* Shi, C., *JSYST March 2020 983-994*
Wang, G., *see* Lu, J., *JSYST March 2020 1297-1308*
Wang, H., *see* Wu, J., *JSYST March 2020 1479-1490*
Wang, H., Chang, Q., Xu, Y., and Li, X., Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links; *JSYST March 2020 538-547*
Wang, H., *see* Yang, S., *JSYST March 2020 1447-1456*
Wang, H., Gu, C., Zhang, X., and Li, F., Optimal CHP Planning in Integrated Energy Systems Considering Network Charges; *JSYST June 2020 2684-2693*
Wang, H., *see* Feng, Q., *JSYST June 2020 1820-1829*
Wang, H., *see* Wu, J., *JSYST Dec. 2020 5210-5220*
Wang, H., *see* Fang, S., *JSYST Dec. 2020 4754-4764*
Wang, H., *see* Ju, Y., *JSYST Dec. 2020 5121-5132*
Wang, J., *see* Zhang, H., *JSYST March 2020 445-456*
Wang, J., *see* Manshadi, S.D., *JSYST March 2020 803-812*
Wang, J., *see* Zhi, T., *JSYST June 2020 1776-1787*
Wang, J., *see* Zhuang, Z., *JSYST June 2020 1658-1669*
Wang, J., *see* Dai, J., *JSYST June 2020 2421-2431*
Wang, J., Liu, C., and Zhou, M., Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems; *JSYST June 2020 3047-3056*
Wang, J., *see* Dai, Z., *JSYST Sept. 2020 4368-4381*
Wang, J., Qiu, Y., Lin, S., Lin, M., and Liu, C., On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone; *JSYST Sept. 2020 4176-4187*
Wang, J., *see* Wang, J., *JSYST Sept. 2020 4176-4187*
Wang, J., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Wang, J., Wang, C., Wei, Y., and Zhang, C., Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics; *JSYST Sept. 2020 3325-3333*
Wang, J., *see* Dai, J., *JSYST Dec. 2020 4832-4841*
Wang, J., Demeulemeester, E., Hu, X., and Wu, G., Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds; *JSYST Dec. 2020 5451-5462*
Wang, J.V., Ganganath, N., Cheng, C., and Tse, C.K., Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers; *JSYST March 2020 152-163*
Wang, K., Guo, D., and Quan, W., Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model; *JSYST June 2020 1862-1873*
Wang, L., *see* Li, F., *JSYST June 2020 2187-2191*
Wang, L., *see* Qureshi, K.I., *JSYST June 2020 2601-2614*
Wang, L., *see* Liu, Y., *JSYST June 2020 2121-2132*
Wang, L., *see* Wang, X., *JSYST Sept. 2020 4356-4367*
Wang, L., *see* Jiang, Y., *JSYST Sept. 2020 3717-3728*
Wang, Q., Liu, F., Huang, P., Xing, S., and Zhao, X., A Hierarchical Attention Model for CTR Prediction Based on User Interest; *JSYST Sept. 2020 4015-4024*
Wang, Q., *see* Du, C., *JSYST Sept. 2020 4101-4109*
Wang, R., *see* Xing, L., *JSYST Sept. 2020 4252-4261*
Wang, S., *see* Fan, X., *JSYST Dec. 2020 4943-4954*
Wang, S., *see* Wang, W., *JSYST Dec. 2020 5475-5485*
Wang, T., *see* Zang, T., *JSYST March 2020 572-581*
Wang, T., Tang, M., and Cao, Y., Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks; *JSYST March 2020 410-421*
Wang, T., *see* Zhou, X., *JSYST June 2020 1798-1809*
Wang, W., *see* Jia, W., *JSYST June 2020 2464-2472*
Wang, W., *see* Zhou, X., *JSYST June 2020 1798-1809*
Wang, W., *see* Ji, S., *JSYST June 2020 2370-2381*
Wang, W., *see* Qu, H., *JSYST Sept. 2020 3161-3172*
Wang, W., Tse, C.K., and Wang, S., Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks; *JSYST Dec. 2020 5475-5485*
Wang, X., *see* Liu, S., *JSYST June 2020 2593-2596*
Wang, X., *see* He, Q., *JSYST June 2020 1874-1885*

+ Check author entry for coauthors

Wang, X., Zhang, K., Zhang, S., and Wu, L., Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators; *JSYST June 2020 2713-2724*
Wang, X., *see* Liu, J., *JSYST June 2020 3027-3038*
Wang, X., *see* Lyu, Z., *JSYST Sept. 2020 3518-3529*
Wang, X., Luo, X., Pan, X., and Guan, X., Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer; *JSYST Sept. 2020 4454-4465*
Wang, X., Li, L., Li, J., Yang, C., Wang, L., and Niyato, D., Traffic-Aware Multiple Association in Ultradense Networks: A State-Based Potential Game; *JSYST Sept. 2020 4356-4367*
Wang, Y., *see* Xu, K., *JSYST March 2020 93-104*
Wang, Y., *see* Yue, Y., *JSYST March 2020 1341-1352*
Wang, Y., Zhang, X., Zhang, H., Yu, R., and Shu, L., Fast Switching With VM Migration in 5G Cloud Radio Access Networks; *JSYST March 2020 477-488*
Wang, Y., *see* Fan, X., *JSYST Dec. 2020 4943-4954*
Wang, Y., *see* Lun, Y., *JSYST Dec. 2020 5014-5024*
Wang, Y., Zhong, H., Xu, Y., Cui, J., and Wu, G., Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs; *JSYST Dec. 2020 5373-5383*
Wang, Z., *see* Zhan, Y., *JSYST March 2020 592-602*
Wang, Z., *see* Tian, X., *JSYST March 2020 548-559*
Wang, Z., *see* Chen, C., *JSYST June 2020 1635-1646*
Wang, Z., Gao, Y., Fang, C., Liu, L., Guo, S., and Li, P., Optimal Connected Cruise Control With Arbitrary Communication Delays; *JSYST June 2020 2913-2924*
Wang, Z., Liu, S., and Fang, Z., Research on SoS-GERT Network Model for Equipment System of Systems Contribution Evaluation Based on Joint Operation; *JSYST Sept. 2020 4188-4196*
Waqas, M., *see* Liu, M., *JSYST March 2020 582-591*
Wei, F., *see* Chen, X., *JSYST Dec. 2020 5396-5406*
Wei, H., Luo, H., Sun, Y., and Obaidat, M.S., Cache-Aware Computation Offloading in IoT Systems; *JSYST March 2020 61-72*
Wei, H., *see* Lyu, Z., *JSYST Dec. 2020 5061-5072*
Wei, J., *see* Sun, G., *JSYST Dec. 2020 4694-4705*
Wei, L., *see* Chen, J., *JSYST March 2020 244-252*
Wei, X., *see* Zang, T., *JSYST March 2020 572-581*
Wei, X., Yao, P., and Xie, Z., Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV; *JSYST Dec. 2020 5133-5143*
Wei, Y., *see* Wang, J., *JSYST Sept. 2020 3325-3333*
Wei, Z., *see* Lyu, Z., *JSYST Sept. 2020 3518-3529*
Weiss, M.B.H., *see* Gomez, M.M., *JSYST March 2020 489-499*
Wen, M., *see* Yue, Y., *JSYST March 2020 1341-1352*
Wen, W., *see* Liu, D., *JSYST June 2020 2323-2334*
Wendoloski, E.B., *see* Maier, M.W., *JSYST Dec. 2020 5417-5428*
Westphall, C.B., *see* Vieira, K., *JSYST June 2020 1984-1991*
Willis, A., *see* Mitra, B., *JSYST March 2020 1069-1079*
Woo, W.L., *see* Quek, Y.T., *JSYST March 2020 1395-1404*
Wu, D.D., *see* Kasimu, A., *JSYST March 2020 1375-1383*
Wu, E.H., *see* Chen, J., *JSYST Sept. 2020 3570-3581*
Wu, F., *see* Li, X., *JSYST March 2020 39-50*
Wu, F., *see* Li, X., *JSYST Sept. 2020 3547-3557*
Wu, G., *see* Wang, Y., *JSYST Dec. 2020 5373-5383*
Wu, G., *see* Wang, J., *JSYST Dec. 2020 5451-5462*
Wu, H., *see* Dong, G., *JSYST Sept. 2020 3653-3664*
Wu, H., *see* Shen, D., *JSYST Sept. 2020 4500-4514*
Wu, J., Wang, H., Li, N., and Su, Z., Formation Obstacle Avoidance: A Fluid-Based Solution; *JSYST March 2020 1479-1490*
Wu, J., Yu, Y., Zhu, H., Song, T., and Hu, J., Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing; *JSYST June 2020 2532-2543*
Wu, J., Wang, H., Zhang, M., and Su, Z., Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework; *JSYST Dec. 2020 5210-5220*
Wu, J., *see* Dai, C., *JSYST Dec. 2020 5025-5036*
Wu, K., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*
Wu, L., *see* Wang, X., *JSYST June 2020 2713-2724*
Wu, M., *see* Xu, C., *JSYST June 2020 2443-2454*
Wu, M., *see* Xu, C., *JSYST Dec. 2020 5384-5395*
Wu, N., *see* Gao, D., *JSYST Dec. 2020 4674-4683*
Wu, Q., Gouyon, D., Levrat, E., and Boudau, S., Use of Patterns for Know-How Reuse in a Model-Based Systems Engineering Framework; *JSYST Dec. 2020 4765-4776*
Wu, T., *see* Van, L., *JSYST June 2020 3015-3026*
Wu, T., Liu, K., Xiao, C., Liu, B., Zhuge, Q., and Sha, E.H., Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems; *JSYST Dec. 2020 5429-5440*
Wu, X., *see* Zhang, Z., *JSYST March 2020 184-195*
Wu, X., *see* Li, J., *JSYST Sept. 2020 3082-3092*
Wu, Z., *see* Meng, Z., *JSYST March 2020 113-123*
Wu, Z., *see* Zhou, Y., *JSYST Dec. 2020 5253-5264*

X

Xi, J., *see* Gao, D., *JSYST Dec. 2020 4674-4683*
Xia, B., *see* Shen, D., *JSYST Sept. 2020 4500-4514*
Xia, C., *see* Lyu, Z., *JSYST Sept. 2020 3518-3529*
Xia, J., Guo, D., Luo, L., and Cheng, G., Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems; *JSYST Sept. 2020 4296-4307*
Xia, M., *see* Li, T., *JSYST June 2020 1692-1703*
Xia, X., *see* Xu, K., *JSYST March 2020 93-104*
Xiang, S., and Yang, J., Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks; *JSYST June 2020 1752-1763*
Xiang, Y., *see* Yang, L., *JSYST June 2020 1623-1634*
Xiang, Z., *see* Li, S., *JSYST June 2020 1602-1610*
Xiang, Z., *see* He, W., *JSYST June 2020 1549-1557*
Xiang, Z., *see* Huang, K., *JSYST Sept. 2020 4329-4339*
Xiang, Z., *see* Zou, W., *JSYST Dec. 2020 4810-4819*
Xiao, C., *see* Liu, M., *JSYST March 2020 582-591*
Xiao, C., *see* Wu, T., *JSYST Dec. 2020 5429-5440*
Xiao, F., *see* Gui, L., *JSYST June 2020 2980-2989*
Xiao, H., *see* Yan, X., *JSYST Sept. 2020 3343-3350*
Xie, J., *see* Zhang, H., *JSYST June 2020 2569-2580*
Xie, L., *see* Chen, Z., *JSYST June 2020 3001-3010*
Xie, N., *see* Zhao, L., *JSYST Sept. 2020 3904-3915*
Xie, P., *see* Tan, S., *JSYST Dec. 2020 5329-5339*
Xie, X., *see* Yang, H., *JSYST March 2020 363-374*
Xie, X., *see* Yang, H., *JSYST March 2020 51-60*
Xie, X., *see* Lu, H., *JSYST Dec. 2020 5002-5013*
Xie, Y., Guo, Y., Mi, Z., Yang, Y., and Obaidat, M.S., Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition; *JSYST March 2020 1245-1256*
Xie, Y., *see* Liu, Z., *JSYST June 2020 2557-2568*
Xie, Z., *see* Wei, X., *JSYST Dec. 2020 5133-5143*
Xing, H., *see* Luo, S., *JSYST June 2020 2581-2584*
Xing, L., Jiao, B., Du, Y., Tan, X., and Wang, R., Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study; *JSYST Sept. 2020 4252-4261*
Xing, S., *see* Wang, Q., *JSYST Sept. 2020 4015-4024*
Xiong, H., Mei, Q., and Zhao, Y., Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments; *JSYST March 2020 310-320*
Xiong, H., Bian, R., Li, Y., Du, Z., and Mai, Z., Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors; *JSYST Sept. 2020 3744-3754*
Xiong, K., *see* Jiang, R., *JSYST March 2020 1206-1217*
Xiong, Y., *see* Huang, J., *JSYST March 2020 375-386*
Xiong, Y., *see* Chen, H., *JSYST Sept. 2020 3779-3790*
Xu, C., *see* Huang, J., *JSYST March 2020 375-386*
Xu, C., *see* Li, P., *JSYST June 2020 2042-2053*
Xu, C., Wu, M., Xu, Y., and Fang, Y., Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA; *JSYST June 2020 2443-2454*
Xu, C., Wu, M., Xu, Y., and Xu, Y., Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks; *JSYST Dec. 2020 5384-5395*

Xu, D., Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor; *JSYST Dec. 2020 5229-5232*
Xu, H., *see* Jiang, P., *JSYST Sept. 2020 4344-4355*
Xu, J., *see* Fan, X., *JSYST Dec. 2020 4943-4954*
Xu, K., Shen, Z., Wang, Y., and Xia, X., Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach; *JSYST March 2020 93-104*
Xu, L., *see* Zhao, L., *JSYST Sept. 2020 3904-3915*
Xu, S., Cao, J., Legg, P., Liu, B., and Li, S., Venue2Vec: An Efficient Embedding Model for Fine-Grained User Location Prediction in Geo-Social Networks; *JSYST June 2020 1740-1751*
Xu, X., *see* Qu, H., *JSYST Sept. 2020 3161-3172*
Xu, X., Dai, Z., Shan, A., and Gu, T., Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors; *JSYST Sept. 2020 3399-3409*
Xu, Y., *see* Ding, R., *JSYST March 2020 633-644*
Xu, Y., *see* Wang, H., *JSYST March 2020 538-547*
Xu, Y., *see* Xu, C., *JSYST June 2020 2443-2454*
Xu, Y., *see* Wang, Y., *JSYST Dec. 2020 5373-5383*
Xu, Y., *see* Xu, C., *JSYST Dec. 2020 5384-5395*
Xu, Y., *see* Xu, C., *JSYST Dec. 2020 5384-5395*
Xue, J., *see* Sang, Y., *JSYST Sept. 2020 3245-3255*

Y

Yadav, A., *see* Chaitanya, B.K., *JSYST March 2020 870-879*
Yadav, A., *see* Kumar, R., *JSYST June 2020 2085-2096*
Yadav, S., Kumar, V., Dhok, S.B., and Jayakody, D.N.K., Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs; *JSYST June 2020 2585-2588*
Yadav, V.K., *see* Mundhe, P., *JSYST Dec. 2020 5463-5474*
Yan, F., *see* Qu, H., *JSYST Sept. 2020 3161-3172*
Yan, H., Li, J., and Zhang, Y., Remote Data Checking With a Designated Verifier in Cloud Storage; *JSYST June 2020 1788-1797*
Yan, J., *see* Luo, X., *JSYST June 2020 2901-2912*
Yan, J., *see* Kabir, M.E., *JSYST Sept. 2020 4221-4231*
Yan, X., Gu, C., Zhang, X., and Li, F., Robust Optimization-Based Energy Storage Operation for System Congestion Management; *JSYST June 2020 2694-2702*
Yan, X., Xiao, H., An, K., Zheng, G., and Chatzinotas, S., Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users; *JSYST Sept. 2020 3343-3350*
Yan, Y., Yang, W., Guo, D., Li, S., Niu, H., and Zhang, B., Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT; *JSYST Sept. 2020 3233-3244*
Yang, A., *see* Chen, L., *JSYST Sept. 2020 3301-3312*
Yang, C., *see* Yue, Y., *JSYST March 2020 1341-1352*
Yang, C., *see* Huang, K., *JSYST Sept. 2020 4329-4339*
Yang, C., *see* Wang, X., *JSYST Sept. 2020 4356-4367*
Yang, D., Sun, Y., Zhou, B., Gao, X., and Zhang, H., Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure; *JSYST Sept. 2020 4477-4488*
Yang, F., *see* Jin, Q., *JSYST Sept. 2020 3289-3300*
Yang, H., *see* Zhou, Y., *JSYST March 2020 220-231*
Yang, H., and Xie, X., Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks; *JSYST March 2020 363-374*
Yang, H., and Xie, X., An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems; *JSYST March 2020 51-60*
Yang, H., *see* Chen, C., *JSYST Sept. 2020 3202-3213*
Yang, H., *see* Lu, H., *JSYST Dec. 2020 5002-5013*
Yang, J., Sun, Y., Requena-Carrion, J., and Cao, Y., An Analytical Model for Information Centric Internet of Things Networks in Opportunistic Scenarios; *JSYST March 2020 172-183*
Yang, J., *see* Chen, Z., *JSYST June 2020 3001-3010*
Yang, J., *see* Xiang, S., *JSYST June 2020 1752-1763*
Yang, L., *see* Zhang, H., *JSYST March 2020 445-456*
Yang, L., *see* Li, Q., *JSYST March 2020 196-207*
Yang, L., Li, P., Yang, X., Xiang, Y., and Tang, Y.Y., Simultaneous Benefit Maximization of Conflicting Opinions: Modeling and Analysis; *JSYST June 2020 1623-1634*
Yang, S., *see* Hao, W., *JSYST March 2020 673-676*
Yang, S., Chen, W., Zhang, X., Liang, C., Wang, H., and Cui, W., A Graph-Based Model for Transmission Network Vulnerability Analysis; *JSYST March 2020 1447-1456*
Yang, T., Roh, H., Han, J., Park, S., and Kim, S., Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments; *JSYST June 2020 3057-3060*
Yang, W., *see* Yan, Y., *JSYST Sept. 2020 3233-3244*
Yang, X., *see* Yang, L., *JSYST June 2020 1623-1634*
Yang, X., *see* Ma, Z., *JSYST Sept. 2020 4602-4613*
Yang, X., and Zhao, F., Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking; *JSYST Sept. 2020 3885-3892*
Yang, Y., *see* Doan, S., *JSYST March 2020 889-899*
Yang, Y., *see* Xie, Y., *JSYST March 2020 1245-1256*
Yang, Y., Yeh, H., and Doan, S.H., Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads; *JSYST March 2020 689-698*
Yang, Y., Yeh, H., and Doan, S., Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads; *JSYST March 2020 852-861*
Yang, Y., Yeh, H., and Doan, S.H., A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid; *JSYST March 2020 842-851*
Yang, Y., *see* Chen, C., *JSYST Sept. 2020 3202-3213*
Yang, Z., *see* Gong, T., *JSYST Dec. 2020 5296-5307*
Yao, P., Zhao, Z., and Zhu, Q., Path Planning for Autonomous Underwater Vehicles With Simultaneous Arrival in Ocean Environment; *JSYST Sept. 2020 3185-3193*
Yao, P., *see* Lun, Y., *JSYST Dec. 2020 5014-5024*
Yao, P., *see* Wei, X., *JSYST Dec. 2020 5133-5143*
Yarkin, F., Altunbas, I., and Basar, E., Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying; *JSYST March 2020 500-509*
Yaseen, F.A., and Al-Raweshidy, H.S., Proactive Forwarding of High Data Rate in Smart Virtualization Networks for High-Speed Trains; *JSYST June 2020 1670-1681*
Ye, J., and Leung, K., Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms; *JSYST March 2020 1285-1296*
Yeh, H., *see* Doan, S., *JSYST March 2020 889-899*
Yeh, H., *see* Yang, Y., *JSYST March 2020 689-698*
Yeh, H., Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels; *JSYST March 2020 277-287*
Yeh, H., *see* Yang, Y., *JSYST March 2020 852-861*
Yeh, H., *see* Yang, Y., *JSYST March 2020 842-851*
Yi, B., *see* He, Q., *JSYST June 2020 1874-1885*
Yi, G., *see* Nan, Y., *JSYST June 2020 1611-1622*
Yin, S., *see* Liu, T., *JSYST June 2020 1830-1839*
Yogarathinam, A., and Chaudhuri, N.R., A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations; *JSYST March 2020 939-949*
Yoo, C., *see* Lee, K., *JSYST Sept. 2020 3618-3629*
Yoo, S., *see* Jin, Y., *JSYST Sept. 2020 3418-3429*
You, L., *see* Liu, Y., *JSYST Sept. 2020 4406-4417*
Younis, M., *see* Baroudi, U., *JSYST Sept. 2020 3093-3104*
Yousefi, G.R., *see* Nemati, H., *JSYST March 2020 793-802*
Yu, F., *see* Zhou, L., *JSYST June 2020 2508-2519*
Yu, H., and Lee, H., Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs; *JSYST Dec. 2020 4990-5001*
Yu, J., *see* Pang, L., *JSYST June 2020 2965-2968*
Yu, J., *see* Park, L.H., *JSYST Sept. 2020 4545-4556*
Yu, J., *see* Paidi, E.S.N.R., *JSYST Dec. 2020 4978-4989*
Yu, P.S., *see* Gan, W., *JSYST Sept. 2020 4442-4453*
Yu, R., *see* Wang, Y., *JSYST March 2020 477-488*
Yu, Y., *see* Wu, J., *JSYST June 2020 2532-2543*
Yu, Y., *see* Gao, D., *JSYST Dec. 2020 4674-4683*

Yuan, W., *see* Li, H., *JSYST March 2020 653-656*
Yuan, Y., *see* Liu, Z., *JSYST June 2020 2557-2568*
Yue, D., *see* Zhang, B., *JSYST June 2020 2849-2860*
Yue, Y., Yang, C., Wang, Y., Senarathne, P.G.C.N., Zhang, J., Wen, M., and Wang, D., A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors; *JSYST March 2020 1341-1352*
Yuen, C., *see* Anwar, S., *JSYST Sept. 2020 3875-3884*
Yukiharu, M., *see* Chan, R.Y., *JSYST March 2020 208-219*
Yustianto, P., *see* Kurniawan, N.B., *JSYST Sept. 2020 3105-3116*

Z

Zabihi, S., *see* Rostami, A., *JSYST March 2020 813-823*
Zacharia, L., Asprou, M., and Kyriakides, E., Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation; *JSYST March 2020 422-432*
Zadeh, A.K., *see* Pouladi, A., *JSYST March 2020 960-970*
Zafaruddin, S.M., *see* Rahman, Z., *JSYST Sept. 2020 4036-4046*
Zaimbashi, A., *see* Jalali, F., *JSYST March 2020 105-112*
Zalyubovskiy, V.V., *see* Challa, R., *JSYST March 2020 657-660*
Zang, T., Gao, S., Huang, T., Wei, X., and Wang, T., Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs; *JSYST March 2020 572-581*
Zare, K., *see* Mirzaei, M.A., *JSYST Sept. 2020 3598-3608*
Zarei, A., Mousavi, Y., Mosalanezhad, R., and Atazadegan, M.H., Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities; *JSYST June 2020 2813-2824*
Zavala, A., Soneji, S., Kothari, S., Ramirez-Marquez, J.E., Tao, H.Y.S., and Hutchison, N., Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach; *JSYST Dec. 2020 5049-5060*
Zeadally, S., *see* Hammi, B., *JSYST Sept. 2020 3440-3450*
Zeinalpour-Yazdi, Z., *see* Javedankherad, M., *JSYST Sept. 2020 3129-3138*
Zeineldin, H.H., *see* Saleh, K.A., *JSYST Sept. 2020 4284-4295*
Zeng, B., *see* Zhang, D., *JSYST March 2020 661-664*
Zeng, X., *see* Chai, Y., *JSYST Sept. 2020 4119-4130*
Zhai, X., Chen, M., Esfahani, S.S., Amira, A., Bensaali, F., Abinahed, J., Dakua, S., Richardson, R.A., and Coveney, P.V., Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System; *JSYST June 2020 1592-1601*
Zhan, Y., Wang, B., Wang, Z., Pei, T., Chen, Y., Qu, Q., and Zhang, Z., Improved Proxy Re-Encryption With Delegatable Verifiability; *JSYST March 2020 592-602*
Zhang, A., *see* Zhang, G., *JSYST Sept. 2020 4638-4647*
Zhang, B., Dou, C., Yue, D., Zhang, Z., and Zhang, T., A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure; *JSYST June 2020 2849-2860*
Zhang, B., *see* Zhang, X., *JSYST June 2020 1909-1920*
Zhang, B., *see* Yan, Y., *JSYST Sept. 2020 3233-3244*
Zhang, C., Ge, J., Gong, F., Jia, F., and Guo, N., Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT; *JSYST June 2020 2192-2201*
Zhang, C., Cho, H., Chen, C., Shih, T.K., and Chao, H., Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network; *JSYST June 2020 1840-1851*
Zhang, C., *see* Wang, J., *JSYST Sept. 2020 3325-3333*
Zhang, D., Hu, Y., Chen, Y., and Zeng, B., Calibrating Phase Offsets for Commodity WiFi; *JSYST March 2020 661-664*
Zhang, D., *see* Chen, C., *JSYST June 2020 1635-1646*
Zhang, G., Zhang, A., Zhao, P., and Sun, J., Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization; *JSYST Sept. 2020 4638-4647*
Zhang, H., *see* Wang, Y., *JSYST March 2020 477-488*
Zhang, H., Huang, Y., Wang, J., Wang, B., and Yang, L., Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems; *JSYST March 2020 445-456*
Zhang, H., *see* Zhi, T., *JSYST June 2020 1776-1787*
Zhang, H., *see* Chen, Y., *JSYST June 2020 2202-2213*
Zhang, H., Liu, W., Xie, J., Zhang, Z., and Lu, W., Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks; *JSYST June 2020 2569-2580*
Zhang, H., *see* Yang, D., *JSYST Sept. 2020 4477-4488*
Zhang, H., *see* Zhao, B., *JSYST Sept. 2020 4089-4100*
Zhang, H., *see* Gao, X., *JSYST Sept. 2020 4626-4637*
Zhang, J., *see* Hao, W., *JSYST March 2020 673-676*
Zhang, J., *see* Yue, Y., *JSYST March 2020 1341-1352*
Zhang, K., *see* Wang, X., *JSYST June 2020 2713-2724*
Zhang, L., Cui, Y., and Mu, Y., Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing; *JSYST March 2020 387-397*
Zhang, L., *see* Onireti, O., *JSYST June 2020 2520-2531*
Zhang, L., *see* Jiang, P., *JSYST Sept. 2020 4344-4355*
Zhang, M., *see* Dai, J., *JSYST June 2020 2421-2431*
Zhang, M., *see* Su, Y., *JSYST June 2020 1963-1971*
Zhang, M., *see* Zhang, Y., *JSYST Dec. 2020 5320-5328*
Zhang, M., *see* Wu, J., *JSYST Dec. 2020 5210-5220*
Zhang, Q., *see* Li, J., *JSYST March 2020 433-444*
Zhang, Q., *see* Hu, D., *JSYST June 2020 2949-2960*
Zhang, Q., *see* Lai, X., *JSYST Sept. 2020 3410-3413*
Zhang, S., *see* Jia, W., *JSYST June 2020 2464-2472*
Zhang, S., *see* Wang, X., *JSYST June 2020 2713-2724*
Zhang, T., *see* Zhang, B., *JSYST June 2020 2849-2860*
Zhang, W., *see* Pang, L., *JSYST June 2020 2965-2968*
Zhang, X., *see* Yang, S., *JSYST March 2020 1447-1456*
Zhang, X., *see* Wang, Y., *JSYST March 2020 477-488*
Zhang, X., *see* Wang, H., *JSYST June 2020 2684-2693*
Zhang, X., Guo, D., An, K., and Zhang, B., Secure Communications Over Cell-Free Massive MIMO Networks With Hardware Impairments; *JSYST June 2020 1909-1920*
Zhang, X., *see* Yan, X., *JSYST June 2020 2694-2702*
Zhang, X., *see* Lai, C., *JSYST Sept. 2020 4430-4441*
Zhang, Y., *see* Liu, J., *JSYST March 2020 1503-1511*
Zhang, Y., *see* Yan, H., *JSYST June 2020 1788-1797*
Zhang, Y., He, D., Li, Y., Zhang, M., and Choo, K.R., Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks; *JSYST Dec. 2020 5320-5328*
Zhang, Z., *see* Zhan, Y., *JSYST March 2020 592-602*
Zhang, Z., *see* Guo, Z., *JSYST March 2020 677-688*
Zhang, Z., Wu, X., and Liu, D., Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure; *JSYST March 2020 184-195*
Zhang, Z., *see* Ma, C., *JSYST June 2020 1992-2002*
Zhang, Z., *see* Zhang, B., *JSYST June 2020 2849-2860*
Zhang, Z., *see* Zhang, H., *JSYST June 2020 2569-2580*
Zhao, B., Ren, G., and Zhang, H., Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks; *JSYST Sept. 2020 4089-4100*
Zhao, F., *see* Yang, X., *JSYST Sept. 2020 3885-3892*
Zhao, H., *see* Jiang, Y., *JSYST Sept. 2020 3717-3728*
Zhao, J., *see* Chen, C., *JSYST June 2020 1635-1646*
Zhao, J., *see* Qu, H., *JSYST Sept. 2020 3161-3172*
Zhao, K., *see* Li, F., *JSYST June 2020 2187-2191*
Zhao, L., Tan, W., Xu, L., Xie, N., and Huang, L., Crowd-Based Cooperative Task Allocation via Multicriteria Optimization and Decision-Making; *JSYST Sept. 2020 3904-3915*
Zhao, P., *see* Zhang, G., *JSYST Sept. 2020 4638-4647*
Zhao, S., *see* Tian, M., *JSYST June 2020 2597-2600*
Zhao, S., Li, Q., and Tian, M., Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties; *JSYST Dec. 2020 5144-5147*
Zhao, X., *see* Ma, Z., *JSYST Sept. 2020 4602-4613*
Zhao, X., *see* Wang, Q., *JSYST Sept. 2020 4015-4024*
Zhao, X., *see* Li, D., *JSYST Dec. 2020 4726-4734*
Zhao, Y., *see* Xiong, H., *JSYST March 2020 310-320*
Zhao, Z., *see* Chen, Y., *JSYST June 2020 2202-2213*
Zhao, Z., *see* Yao, P., *JSYST Sept. 2020 3185-3193*
Zheng, G., *see* Yan, X., *JSYST Sept. 2020 3343-3350*

Zheng, H., *see* Ju, Y., *JSYST Dec. 2020 5121-5132*
Zheng, S., *see* Jiang, P., *JSYST Sept. 2020 4344-4355*
Zheng, Y., *see* Chen, D., *JSYST June 2020 2411-2420*
Zhi, T., Liu, Y., Wang, J., and Zhang, H., Resist Interest Flooding Attacks via Entropy–SVM and Jensen–Shannon Divergence in Information-Centric Networking; *JSYST June 2020 1776-1787*
Zhong, F., *see* Zhou, X., *JSYST June 2020 1798-1809*
Zhong, H., *see* Ding, R., *JSYST March 2020 633-644*
Zhong, H., *see* Wang, Y., *JSYST Dec. 2020 5373-5383*
Zhong, W., *see* Chen, C., *JSYST Sept. 2020 3202-3213*
Zhong, Z., *see* Jiang, R., *JSYST March 2020 1206-1217*
Zhou, B., *see* Yang, D., *JSYST Sept. 2020 4477-4488*
Zhou, H., *see* Dai, Z., *JSYST Sept. 2020 4368-4381*
Zhou, H., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Zhou, J., *see* Shi, C., *JSYST March 2020 983-994*
Zhou, L., *see* Jiang, R., *JSYST March 2020 1206-1217*
Zhou, L., Tan, F., and Yu, F., A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks; *JSYST June 2020 2508-2519*
Zhou, M., *see* Wang, J., *JSYST June 2020 3047-3056*
Zhou, R., Tang, M., Gong, Z., and Hao, M., FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering; *JSYST June 2020 2990-3000*
Zhou, R., Gong, Z., Lu, X., and Fu, Y., WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi; *JSYST Dec. 2020 4919-4930*
Zhou, S., *see* Li, H., *JSYST March 2020 653-656*
Zhou, X., Wang, W., Wang, T., Li, M., and Zhong, F., Online Planning for Multi-agent Situational Information Gathering in the Markov Environment; *JSYST June 2020 1798-1809*
Zhou, X., *see* Guo, S., *JSYST Sept. 2020 4131-4142*
Zhou, X., *see* Guo, S., *JSYST Sept. 2020 4131-4142*
Zhou, X., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Zhou, Y., Yang, H., Hu, Y., and Kung, S., Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks; *JSYST March 2020 220-231*
Zhou, Y., Panteli, M., Wang, B., and Mancarella, P., Quantifying the System-Level Resilience of Thermal Power Generation to Extreme Temperatures and Water Scarcity; *JSYST March 2020 749-759*
Zhou, Y., and Chen, Y., Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors; *JSYST March 2020 333-342*
Zhou, Y., *see* Gui, L., *JSYST Sept. 2020 3150-3160*
Zhou, Y., Kong, L., Cai, Y., Wu, Z., Liu, S., Hong, J., and Wu, K., A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows; *JSYST Dec. 2020 5253-5264*
Zhu, C., *see* Qureshi, K.I., *JSYST June 2020 2601-2614*
Zhu, H., *see* Wu, J., *JSYST June 2020 2532-2543*
Zhu, Q., *see* Yao, P., *JSYST Sept. 2020 3185-3193*
Zhu, W., *see* Chen, P., *JSYST Sept. 2020 3801-3812*
Zhu, Y., *see* Ju, Y., *JSYST Dec. 2020 5121-5132*
Zhuang, W., *see* Parvizimosaed, M., *JSYST Dec. 2020 5037-5048*
Zhuang, Z., Wang, J., Qi, Q., Sun, H., and Liao, J., Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach; *JSYST June 2020 1658-1669*
Zhuge, Q., *see* Wu, T., *JSYST Dec. 2020 5429-5440*
Zio, E., *see* Di Maio, F., *JSYST March 2020 1333-1340*
Zobaa, A.F., *see* Osama, R.A., *JSYST March 2020 916-926*
Zogovic, N., Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications; *JSYST Sept. 2020 3173-3184*
Zolfaghari, M., Abedi, M., and Gharehpetian, G.B., Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids; *JSYST March 2020 1117-1124*
Zou, H., *see* Chen, Z., *JSYST June 2020 3001-3010*
Zou, W., Huang, Y., Ahn, C.K., and Xiang, Z., Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies; *JSYST Dec. 2020 4810-4819*
Zubo, R.H.A., and Mokryani, G., Active Distribution Network Operation: A Market-Based Approach; *JSYST March 2020 1405-1416*
Zvanovec, S., *see* Chvojka, P., *JSYST June 2020 2544-2550*

Subject Index

Numeric

3G mobile communication
Procurement-Based User Association for LTE-Advanced HetNets. *Kumar, S.*, +, *JSYST Sept. 2020 3194-3201*
4G mobile communication
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
5G mobile communication
A Novel Communication System of High Capacity. *Fattouche, M., JSYST Sept. 2020 4197-4208*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization. *Gomez, M.M.*, +, *JSYST March 2020 489-499*
Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Traffic-Aware Multiple Association in Ultradense Networks: A State-Based Potential Game. *Wang, X.*, +, *JSYST Sept. 2020 4356-4367*

A

Absorption
Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission. *Lun, Y.*, +, *JSYST Dec. 2020 5014-5024*
Acceleration
Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*
Acceleration control
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*
Accelerator magnets
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Access protocols
Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*
Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*

Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*

Accidents

Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*

Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*

Acoustic waves

Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*

Actuators

Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*

Ad hoc networks

Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*

Ada

An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*

Adaptation models

An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*

High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*

Adaptive control

Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Navigation of Scalar Fronts With Multirobot Clusters in Simulation and Experiment. *McDonald, R.T.*, +, *JSYST Sept. 2020 3755-3766*

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*

Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Additive noise

A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*

Advertising data processing

A Hierarchical Attention Model for CTR Prediction Based on User Interest. *Wang, Q.*, +, *JSYST Sept. 2020 4015-4024*

Aerospace control

A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*

Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*

Aerospace industry

Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*

Air pollution

Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*

Air pollution control

Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*

Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*

Aircraft

A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*

A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*

Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*

Aircraft communication

Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*

Aircraft control

Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop. *Liu, J.*, +, *JSYST March 2020 1503-1511*

Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. *Liu, J.*, +, *JSYST June 2020 3027-3038*

Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*

Algebra

Polynomial Chaos Expansion for Parametric Problems in Engineering Systems: A Review. *Shen, D.*, +, *JSYST Sept. 2020 4500-4514*

Amplify and forward communication

Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*

Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*

Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*

Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*

Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*

Amplitude modulation

Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. *Chvojka, P.*, +, *JSYST June 2020 2544-2550*

Analog-digital conversion

Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Analytical models

Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*

Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*

Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*

Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*

Android (operating system)

Adversarial-Example Attacks Toward Android Malware Detection System. *Li, H.*, +, *JSYST March 2020 653-656*

SieveDroid: Intercepting Undesirable Private-Data Transmissions in Android Applications. *Huang, J.*, +, *JSYST March 2020 375-386*

Ant colony optimization

An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*

Antenna arrays
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*
Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Antennas
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*
Application program interfaces
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Approximation theory
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. *Sun, L.*, +, *JSYST June 2020 2801-2812*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Secure Communications Over Cell-Free Massive MIMO Networks With Hardware Impairments. *Zhang, X.*, +, *JSYST June 2020 1909-1920*
Arcs (electric)
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Array signal processing
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Artificial immune systems
Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*
Artificial intelligence
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*
Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network. *Quek, Y.T.*, +, *JSYST March 2020 1395-1404*
Artificial neural networks
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*
Artificial satellites
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*
Assisted living
MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
Asymptotic stability
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
Asynchronous generators
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Atmospheric modeling
A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*
A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*
Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*
Atmospheric turbulence
Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*
Australia
Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*

Authentication
Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*
Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*
Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*
Authorization
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things. *Sowjanya, K.*, +, *JSYST June 2020 2154-2163*
Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*
Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing. *Zhang, L.*, +, *JSYST March 2020 387-397*
Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC. *Rajamanickam, S.*, +, *JSYST June 2020 1972-1983*
Automation
An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*
Automobile industry
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Automobiles
Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*
Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*
Autonomous aerial vehicles
CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs. *Verma, G.K.*, +, *JSYST March 2020 621-632*
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Mobile Target Tracking Mechanisms Using Unmanned Aerial Vehicle: Investigations and Future Directions. *Hentati, A.I.*, +, *JSYST June 2020 2969-2979*
Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*
Autonomous underwater vehicles
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
Path Planning for Autonomous Underwater Vehicles With Simultaneous Arrival in Ocean Environment. *Yao, P.*, +, *JSYST Sept. 2020 3185-3193*
Autoregressive moving average processes
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Autoregressive processes
A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
AWGN channels
A Novel Communication System of High Capacity. *Fattouche, M., JSYST Sept. 2020 4197-4208*
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*

B

Backpropagation
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
Band-pass filters
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Bandwidth
Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*
Bandwidth allocation
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Bang-bang control
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Base stations
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*
Baseband
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Batteries
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*
Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*
Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving. *Ahmad, W.*, +, *JSYST Dec. 2020 4820-4831*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*
Battery management systems
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Battery powered vehicles
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*
Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*

Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Battery storage plants
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*

Bayes methods
A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*

Behavioral sciences
System Definition, System Worldviews, and Systemness Characteristics. *Dori, D.*, +, *JSYST June 2020 1538-1548*

Belief maintenance
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*

Belief networks
Efficient Population of the Verification Tradespace Using Bayesian Inference. *Farkhondehmaal, F.*, +, *JSYST Sept. 2020 3225-3232*
Risk Analysis of Cyber-Physical Systems by GTST-MLD. *Di Maio, F.*, +, *JSYST March 2020 1333-1340*
SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning. *Chaturvedi, A.*, +, *JSYST Sept. 2020 4007-4014*

Big Data
Autonomic Intrusion Detection and Response Using Big Data. *Vieira, K.*, +, *JSYST June 2020 1984-1991*

Biomechanics
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*

Biomedical communication
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System. *Verma, G.K.*, +, *JSYST June 2020 1704-1715*

Block codes
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*

Blood vessels
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*

Bluetooth
A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities. *Chan, R.Y.*, +, *JSYST March 2020 208-219*
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*
Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*
Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*

Body area networks
Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*

Body sensor networks
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*

Boilers
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*

Boltzmann machines
SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning. *Chaturvedi, A.*, +, *JSYST Sept. 2020 4007-4014*

Brain-computer interfaces
MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*

Brakes
Best Practice Patterns for Variant Modeling of Activities in Model-Based Systems Engineering. *Colletti, R.A.*, +, *JSYST Sept. 2020 4165-4175*

Broadband communication
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*

Broadcast communication
Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*

Broadcasting
Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*

Building integrated photovoltaics
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Building management systems
Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*

Business data processing
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
Hybrid Configuration in Information Technology Value Model. *Abdurrahman, L., JSYST Sept. 2020 4515-4522*

C

Cache storage
Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*
Content Placement in Cache Networks Using Graph Coloring. *Javedankherad, M.*, +, *JSYST Sept. 2020 3129-3138*

Calibration
Calibrating Phase Offsets for Commodity WiFi. *Zhang, D.*, +, *JSYST March 2020 661-664*

Cameras
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*

Capacitors
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*
Carbon
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Carrier transmission on power lines
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Cartography
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Cellular manufacturing
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*
Cellular networks
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*
Cellular radio
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Content Placement in Cache Networks Using Graph Coloring. *Javedankherad, M.*, +, *JSYST Sept. 2020 3129-3138*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*
Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*
Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels. *Lai, X.*, +, *JSYST Sept. 2020 3410-3413*
Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation. *Lin, D.*, +, *JSYST June 2020 1716-1727*
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Outage and ASE Analyses for Power Controlled D2D Communication. *Pawar, P.*, +, *JSYST June 2020 2269-2280*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*
Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading. *Chang, K.*, +, *JSYST Sept. 2020 4047-4058*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*
Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics. *Chen, Y.*, +, *JSYST June 2020 2202-2213*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Centralized control
Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*
Channel allocation
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Channel bank filters
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Channel capacity
A Novel Communication System of High Capacity. *Fattouche, M., JSYST Sept. 2020 4197-4208*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*
Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels. *Ji, S.*, +, *JSYST June 2020 2370-2381*
Channel coding
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Channel estimation
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
A System Simulation Framework for Modeling Space Modulation Techniques. *Hiari, O.*, +, *JSYST March 2020 1435-1446*
D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*

Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*

Chaos
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Polynomial Chaos Expansion for Parametric Problems in Engineering Systems: A Review. *Shen, D.*, +, *JSYST Sept. 2020 4500-4514*

Chaotic communication
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*

Chebyshev approximation
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*

Checkpointing
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*

Chirp modulation
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*

Choppers (circuits)
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*

Circuit breakers
Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor. *Makwana, Y.M.*, +, *JSYST June 2020 2770-2779*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*

Circuit faults
Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*

Closed loop systems
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*

Closed-form solutions
Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*

Cloud computing
A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*
A Public Auditing Protocol for Cloud Storage System With Intrusion-Resilience. *Ding, R.*, +, *JSYST March 2020 633-644*
A WOA-Based Optimization Approach for Task Scheduling in Cloud Computing Systems. *Chen, X.*, +, *JSYST Sept. 2020 3117-3128*
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things. *Sowjanya, K.*, +, *JSYST June 2020 2154-2163*
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*
Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Efficient Ranked Multi-Keyword Retrieval With Privacy Protection for Multiple Data Owners in Cloud Computing. *Sun, J.*, +, *JSYST June 2020 1728-1739*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Improved Proxy Re-Encryption With Delegatable Verifiability. *Zhan, Y.*, +, *JSYST March 2020 592-602*
Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing. *Zhang, L.*, +, *JSYST March 2020 387-397*
Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*
Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition. *Xie, Y.*, +, *JSYST March 2020 1245-1256*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*
Traffic Control for RDMA-Enabled Data Center Networks: A Survey. *Guo, Z.*, +, *JSYST March 2020 677-688*
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*

Clouds
A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*

Clustering algorithms
Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*
Coal
Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*
Cochannel interference
Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Cogeneration
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Cognitive radar
Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Cognitive radio
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System. *Qu, H.*, +, *JSYST Sept. 2020 3161-3172*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation. *Agrawal, H.*, +, *JSYST June 2020 2485-2496*
Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size. *Kumar, R.*, +, *JSYST June 2020 2085-2096*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*
Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*
Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. *Jafari, R.*, +, *JSYST June 2020 2109-2120*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*
Collision avoidance
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework. *Wu, J.*, +, *JSYST Dec. 2020 5210-5220*
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop. *Liu, J.*, +, *JSYST March 2020 1503-1511*
Path Planning for Autonomous Underwater Vehicles With Simultaneous Arrival in Ocean Environment. *Yao, P.*, +, *JSYST Sept. 2020 3185-3193*
Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. *Liu, J.*, +, *JSYST June 2020 3027-3038*
Combinatorial mathematics
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*
Toward a More Reliable System for Contingency Selection in Static Security Analysis of Electric Power Systems. *da Silva, J.M.*, +, *JSYST March 2020 1183-1194*
Combined cycle power stations
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Communication complexity
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
Communication system security
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Compensation
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. *Zacharia, L.*, +, *JSYST March 2020 422-432*
Complex networks
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
Complex systems
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*

Complexity theory
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*
Use of Patterns for Know-How Reuse in a Model-Based Systems Engineering Framework. *Wu, Q.*, +, *JSYST Dec. 2020 4765-4776*
Compressed sensing
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*
Computational complexity
A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs. *Verma, G.K.*, +, *JSYST March 2020 621-632*
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Cyber-Social Systems: Modeling, Inference, and Optimal Design. *Doostmohammadian, M.*, +, *JSYST March 2020 73-83*
Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size. *Kumar, R.*, +, *JSYST June 2020 2085-2096*
Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization. *Gomez, M.M.*, +, *JSYST March 2020 489-499*
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*
On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Computational efficiency
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*
Computational modeling
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*
Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*
Computer aided instruction
A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities. *Chan, R.Y.*, +, *JSYST March 2020 208-219*
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Computer architecture
A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*
Computer centers
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*
Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems. *Xia, J.*, +, *JSYST Sept. 2020 4296-4307*
Traffic Control for RDMA-Enabled Data Center Networks: A Survey. *Guo, Z.*, +, *JSYST March 2020 677-688*
Computer crime
Autonomic Intrusion Detection and Response Using Big Data. *Vieira, K.*, +, *JSYST June 2020 1984-1991*
Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*
Computer network management
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms. *Ye, J.*, +, *JSYST March 2020 1285-1296*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks. *Imran, M.*, +, *JSYST June 2020 1933-1944*
SDNMM—A Generic SDN-Based Modular Management System for Wireless Sensor Networks. *Ndiaye, M.*, +, *JSYST June 2020 2347-2357*
Computer network reliability
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*
Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems. *Xia, J.*, +, *JSYST Sept. 2020 4296-4307*
Computer network security
A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT). *Hammi, B.*, +, *JSYST Sept. 2020 3440-3450*
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature. *Kumar, M.*, +, *JSYST June 2020 2032-2041*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model. *Wang, K.*, +, *JSYST June 2020 1862-1873*
DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks. *Imran, M.*, +, *JSYST June 2020 1933-1944*

Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments. *Xiong, H.*, +, *JSYST March 2020 310-320*
Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks. *Liu, S.*, +, *JSYST June 2020 2593-2596*
Moving Target Defense Mechanism for Side-Channel Attacks. *Vuppala, S.*, +, *JSYST June 2020 1810-1819*
Resist Interest Flooding Attacks via Entropy–SVM and Jensen–Shannon Divergence in Information-Centric Networking. *Zhi, T.*, +, *JSYST June 2020 1776-1787*
Secure Distribution of Protected Content in Information-Centric Networking. *Bilal, M.*, +, *JSYST June 2020 1921-1932*
SMS–A Security Management System for Steam Turbines Using a Multisensor Array. *Kordestani, M.*, +, *JSYST Sept. 2020 3813-3824*

Computer security
Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*

Computer vision
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*

Computerized monitoring
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*

Concave programming
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach. *Mohammadi, Z.*, +, *JSYST Sept. 2020 3214-3224*
Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*

Concurrency control
An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*

Condition monitoring
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*

Consumer behavior
Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*

Containers
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*

Context modeling
Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*
Use of Patterns for Know-How Reuse in a Model-Based Systems Engineering Framework. *Wu, Q.*, +, *JSYST Dec. 2020 4765-4776*

Contracts
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*

Control engineering computing
A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*
An Intelligent Elevator Development and Management System. *Van, L.*, +, *JSYST June 2020 3015-3026*
CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs. *Verma, G.K.*, +, *JSYST March 2020 621-632*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*

Control nonlinearities
Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Control system security
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*

Control system synthesis
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Flexible Control Structure for Enhancement of Scalability in DC Microgrids. *Ko, B.*, +, *JSYST Sept. 2020 4591-4601*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*

Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*

Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*

Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*

Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*

Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Control systems

A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*

An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*

Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*

Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*

Controllability

Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*

Controller area networks

Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*

Convergence

A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*

Convergence of numerical methods

Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*

Convex programming

A Distributed Convex Relaxation Approach to Solve the Power Flow Problem. *Manshadi, S.D.*, +, *JSYST March 2020 803-812*

An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*

Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*

Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach. *Mohammadi, Z.*, +, *JSYST Sept. 2020 3214-3224*

Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*

Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*

Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*

Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*

Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*

Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. *Jafari, R.*, +, *JSYST June 2020 2109-2120*

Convolutional codes

Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*

Convolutional neural networks

A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*

A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081*

Cooling

Quantifying the System-Level Resilience of Thermal Power Generation to Extreme Temperatures and Water Scarcity. *Zhou, Y.*, +, *JSYST March 2020 749-759*

Cooperative communication

A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*

Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*

Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*

Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*

Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*

Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*

Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing. *Wu, J.*, +, *JSYST June 2020 2532-2543*

Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*

D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*

Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*

Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*

Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*

Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*

Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*

Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*

Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*

QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*

Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*

Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*

Cooperative systems
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
Crowd-Based Cooperative Task Allocation via Multicriteria Optimization and Decision-Making. *Zhao, L.*, +, *JSYST Sept. 2020 3904-3915*
Correlation
A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*
Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*
Cost reduction
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Cost-benefit analysis
Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing. *Wu, J.*, +, *JSYST June 2020 2532-2543*
Value Uncertainty Analysis in Architecture and Trade Studies. *Maier, M.W.*, +, *JSYST Dec. 2020 5417-5428*
Costing
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Covariance analysis
Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. *Sun, L.*, +, *JSYST June 2020 2801-2812*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Covariance matrices
Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*
D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*
Crack detection
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Critical infrastructures
Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis. *Gourisetti, S.N.G.*, +, *JSYST June 2020 1897-1908*
Risk Analysis of Cyber-Physical Systems by GTST-MLD. *Di Maio, F.*, +, *JSYST March 2020 1333-1340*
Crude oil
Quantum-Inspired Genetic Programming Algorithm for the Crude Oil Scheduling of a Real-World Refinery. *Pereira, C.S.*, +, *JSYST Sept. 2020 3926-3937*
Cryptocurrencies
Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. *Saad, M.*, +, *JSYST March 2020 321-332*
Cryptographic protocols
A Lightweight Privacy-Preserving Authentication Protocol for VANETs. *Li, X.*, +, *JSYST Sept. 2020 3547-3557*
A New Privacy-Enhanced Technology for Fair Matchmaking With Identity Linked Wishes. *Horne, D.*, +, *JSYST March 2020 298-309*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*
A Public Auditing Protocol for Cloud Storage System With Intrusion-Resilience. *Ding, R.*, +, *JSYST March 2020 633-644*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC. *Rajamanickam, S.*, +, *JSYST June 2020 1972-1983*
Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*
Cryptography
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*
Efficient Ranked Multi-Keyword Retrieval With Privacy Protection for Multiple Data Owners in Cloud Computing. *Sun, J.*, +, *JSYST June 2020 1728-1739*
Improved Proxy Re-Encryption With Delegatable Verifiability. *Zhan, Y.*, +, *JSYST March 2020 592-602*
Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing. *Zhang, L.*, +, *JSYST March 2020 387-397*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Moving Target Defense Mechanism for Side-Channel Attacks. *Vuppala, S.*, +, *JSYST June 2020 1810-1819*
Secure Distribution of Protected Content in Information-Centric Networking. *Bilal, M.*, +, *JSYST June 2020 1921-1932*
Curing
Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model. *Wang, K.*, +, *JSYST June 2020 1862-1873*
Current measurement
Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*
Cyber-physical systems
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*
Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*
Energy-Aware Connectivity Restoration Mechanism for Cyber-Physical Systems of Networked Sensors and Robots. *Baroudi, U.*, +, *JSYST Sept. 2020 3093-3104*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*

Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*

Cyber–physical systems
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*

D

Damping
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*

Data acquisition
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*

Data aggregation
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*

Data analysis
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Practical Privacy-Preserving Frequent Itemset Mining on Supermarket Transactions. *Ma, C.*, +, *JSYST June 2020 1992-2002*
Utility-Driven Data Analytics on Uncertain Data. *Gan, W.*, +, *JSYST Sept. 2020 4442-4453*

Data assimilation
An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*

Data communication
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*

Data compression
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*

Data integrity
A Public Auditing Protocol for Cloud Storage System With Intrusion-Resilience. *Ding, R.*, +, *JSYST March 2020 633-644*
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*

Data mining
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes. *Chen, J.*, +, *JSYST March 2020 244-252*
Practical Privacy-Preserving Frequent Itemset Mining on Supermarket Transactions. *Ma, C.*, +, *JSYST June 2020 1992-2002*
Utility-Driven Data Analytics on Uncertain Data. *Gan, W.*, +, *JSYST Sept. 2020 4442-4453*

Data models
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*
Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*
Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*

Data privacy
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT). *Hammi, B.*, +, *JSYST Sept. 2020 3440-3450*
A Lightweight Privacy-Preserving Authentication Protocol for VANETs. *Li, X.*, +, *JSYST Sept. 2020 3547-3557*
A New Privacy-Enhanced Technology for Fair Matchmaking With Identity Linked Wishes. *Horne, D.*, +, *JSYST March 2020 298-309*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*
An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things. *Sowjanya, K.*, +, *JSYST June 2020 2154-2163*
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Anonymous Aggregate Encryption Scheme for Industrial Internet of Things. *Deng, L., JSYST Sept. 2020 3999-4006*
Efficient Ranked Multi-Keyword Retrieval With Privacy Protection for Multiple Data Owners in Cloud Computing. *Sun, J.*, +, *JSYST June 2020 1728-1739*
Improved Proxy Re-Encryption With Delegatable Verifiability. *Zhan, Y.*, +, *JSYST March 2020 592-602*
Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing. *Zhang, L.*, +, *JSYST March 2020 387-397*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Practical Privacy-Preserving Frequent Itemset Mining on Supermarket Transactions. *Ma, C.*, +, *JSYST June 2020 1992-2002*
SieveDroid: Intercepting Undesirable Private-Data Transmissions in Android Applications. *Huang, J.*, +, *JSYST March 2020 375-386*

Data visualization
Creating Power System Network Layouts: A Fast Parallel Algorithm. *Olauson, J.*, +, *JSYST Sept. 2020 3687-3694*
Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*
Venue2Vec: An Efficient Embedding Model for Fine-Grained User Location Prediction in Geo-Social Networks. *Xu, S.*, +, *JSYST June 2020 1740-1751*

DC motors
A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*
Decentralized control
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
Decision making
A Functional Resonance Analysis Method Driven Resilience Quantification for Socio-Technical Systems. *Bellini, E.*, +, *JSYST March 2020 1234-1244*
A Multicriteria Trading System Based on Singular Spectrum Analysis Trading Rules. *Leles, M.C.R.*, +, *JSYST March 2020 1468-1478*
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*
Bee-Inspired Evaluation Algorithm Leads to Improved Decision Making in Groups. *Sturgis, M.*, +, *JSYST March 2020 1427-1434*
Crowd-Based Cooperative Task Allocation via Multicriteria Optimization and Decision-Making. *Zhao, L.*, +, *JSYST Sept. 2020 3904-3915*
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*
Disclose or Exploit? A Game-Theoretic Approach to Strategic Decision Making in Cyber-Warfare. *Chen, H.*, +, *JSYST Sept. 2020 3779-3790*
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*
Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*
Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. *Peyghami, S.*, +, *JSYST June 2020 2861-2872*
Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering. *Chiu, W.*, +, *JSYST June 2020 1580-1591*
Decision theory
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
Online Planning for Multiagent Situational Information Gathering in the Markov Environment. *Zhou, X.*, +, *JSYST June 2020 1798-1809*
Decision trees
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*
Decode and forward communication
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*
Decoding
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*
Delay effects
An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*
Delay tolerant networks
Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks. *Wang, T.*, +, *JSYST March 2020 410-421*
Delays
A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*
Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms. *Ye, J.*, +, *JSYST March 2020 1285-1296*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*
Demand side management
A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem. *Belhaiza, S.*, +, *JSYST March 2020 1147-1158*
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*

Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*

Demodulation
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Desalination
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*

Design engineering
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*
An Agent-Based Model of Miscommunication in Complex System Engineering Organizations. *Meluso, J.*, +, *JSYST Sept. 2020 3463-3474*
Bioanalytical Device Design With Model-Based Systems Engineering Tools. *Evin, E.*, +, *JSYST Sept. 2020 3139-3149*
Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*

Design methodolgy
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*

Design optimization
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*

Detectors
An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*
Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*

Device-to-device communication
Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*

Diesel-electric generators
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*

Differential equations
Polynomial Chaos Expansion for Parametric Problems in Engineering Systems: A Review. *Shen, D.*, +, *JSYST Sept. 2020 4500-4514*

Differential games
Simultaneous Benefit Maximization of Conflicting Opinions: Modeling and Analysis. *Yang, L.*, +, *JSYST June 2020 1623-1634*

Digital signatures
A Lightweight Certificateless Aggregation Signature Scheme With Provably Security in the Standard Model. *Deng, L.*, +, *JSYST Sept. 2020 4242-4251*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
Anonymous Aggregate Encryption Scheme for Industrial Internet of Things. *Deng, L., JSYST Sept. 2020 3999-4006*
CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs. *Verma, G.K.*, +, *JSYST March 2020 621-632*
Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments. *Xiong, H.*, +, *JSYST March 2020 310-320*
Improved Proxy Re-Encryption With Delegatable Verifiability. *Zhan, Y.*, +, *JSYST March 2020 592-602*
White-Box Implementation of Shamir's Identity-Based Signature Scheme. *Feng, Q.*, +, *JSYST June 2020 1820-1829*

Digital subscriber lines
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*

Directed graphs
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*

Direction-of-arrival estimation
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*

Disasters
An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*
Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*
Electrical Power System Resilience Assessment: A Comprehensive Approach. *Sabouhi, H.*, +, *JSYST June 2020 2643-2652*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Metanetwork Framework for Performance Analysis of Disaster Management System-of-Systems. *Fan, C.*, +, *JSYST March 2020 1265-1276*
Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*

Discrete Fourier transforms
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*

Discrete time systems
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*

Discrete wavelet transforms
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*

Diseases
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*

Dispersive channels
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*

Distance measurement
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*

Distortion
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*

Distributed algorithms
Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size. *Kumar, R.*, +, *JSYST June 2020 2085-2096*

Distributed control
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*

Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*

Distributed power generation

A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses. *Moghaddam, M.J.H.*, +, *JSYST Sept. 2020 3530-3538*
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850. *Aftab, M.A.*, +, *JSYST June 2020 2676-2683*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
Flexible Control Structure for Enhancement of Scalability in DC Microgrids. *Ko, B.*, +, *JSYST Sept. 2020 4591-4601*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor. *Makwana, Y.M.*, +, *JSYST June 2020 2770-2779*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks. *Liu, S.*, +, *JSYST June 2020 2593-2596*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System. *Hong, Y.*, +, *JSYST June 2020 2759-2769*
Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*
Novel Change Detection and Fault Classification Scheme for AC Microgrids. *Jarrahi, M.A.*, +, *JSYST Sept. 2020 3987-3998*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Priority-Based Scheduling of Energy Exchanges Between Cooperative Microgrids in Risk-Averse Environment. *Lahon, R.*, +, *JSYST March 2020 1098-1108*
Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *Javidsharifi, M.*, +, *JSYST June 2020 2703-2712*
Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. *Peyghami, S.*, +, *JSYST June 2020 2861-2872*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Distributed processing
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Distributed sensors
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
Distribution networks
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*
Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. *Mahmud, K.*, +, *JSYST Sept. 2020 3641-3652*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*
Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*
Diversity reception
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*
Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*
User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*
Domestic appliances
MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*
Doppler effect
WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*
Doppler shift
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Downlink
Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
Driver information systems
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
Drones
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*
Dynamics
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*

E

Earth Observing System
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*
Earthing
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Earthquakes
An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Eavesdropping
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Econophysics
Value Uncertainty Analysis in Architecture and Trade Studies. *Maier, M.W.*, +, *JSYST Dec. 2020 5417-5428*
Educational courses
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Educational institutions
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Eigenvalues and eigenfunctions
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. *Retiere, N.*, +, *JSYST June 2020 2736-2747*
Spotting Key Members in Networks: Clustering-Embedded Eigenvector Centrality. *Carrizosa, E.*, +, *JSYST Sept. 2020 3916-3925*
Electric current control
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*
Electric fuses
Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor. *Makwana, Y.M.*, +, *JSYST June 2020 2770-2779*
Electric impedance
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*

Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*

Electric noise measurement

A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*

Electric vehicle charging

Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*

Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*

Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*

System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Electric vehicles

An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*

Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*

Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*

Electrocardiography

A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems. *Pandey, A.*, +, *JSYST June 2020 1953-1962*

Electroencephalography

A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems. *Pandey, A.*, +, *JSYST June 2020 1953-1962*

MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*

Electromagnetic induction

Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Electromagnetic interference

Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*

Electromagnetic wave scattering

Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*

Electromechanical actuators

Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*

Embedded systems

A Model for the Build-Versus-Buy Decision in Developing Embedded Systems. *Fowler, K.R.*, +, *JSYST March 2020 1317-1324*

A Study of the Build-Versus-Buy Decision in Developing Embedded Systems. *Fowler, K.R.*, +, *JSYST March 2020 1309-1316*

Emergency management

Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*

Metanetwork Framework for Performance Analysis of Disaster Management System-of-Systems. *Fan, C.*, +, *JSYST March 2020 1265-1276*

Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*

Emergency services

Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*

EMTP

Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*

Energy conservation

Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*

Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*

Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*

Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*

Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*

Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*

Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*

Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*

Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*

Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*

Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*

MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*

Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*

Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*

Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*

Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*

Energy consumption

Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*

Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*

Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*

Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*

Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*

Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*

Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*

Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*

Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*

Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*

Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*

Energy efficiency
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*
Energy harvesting
A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks. *Jin, Y.*, +, *JSYST Sept. 2020 3418-3429*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Energy management
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network. *Quek, Y.T.*, +, *JSYST March 2020 1395-1404*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *Javidsharifi, M.*, +, *JSYST June 2020 2703-2712*
Energy storage
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *Javidsharifi, M.*, +, *JSYST June 2020 2703-2712*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*
Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage. *Doan, S.*, +, *JSYST March 2020 889-899*
Engineering education
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Entropy
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Resist Interest Flooding Attacks via Entropy–SVM and Jensen–Shannon Divergence in Information-Centric Networking. *Zhi, T.*, +, *JSYST June 2020 1776-1787*
Environmental monitoring (geophysics)
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Environmental science computing
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*
Equalizers
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*
Equivalent circuits
Fast Wireless Power Transfer for Multiple Receivers in Linear Topology. *Lee, K.*, +, *JSYST March 2020 649-652*
Error analysis
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
Error statistics
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*

Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels. *Lai, X.*, +, *JSYST Sept. 2020 3410-3413*

End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*

Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. *Chvojka, P.*, +, *JSYST June 2020 2544-2550*

Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*

On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*

Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*

Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*

Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*

Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*

Estimation

A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081* Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*

Euclidean distance

Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*

Event detection

Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*

Evolutionary computation

A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes. *Chen, J.*, +, *JSYST March 2020 244-252*

Improved Teaching Learning-Based QoS-Aware Services Composition for Internet of Things. *Khanouche, M.E.*, +, *JSYST Sept. 2020 4155-4164*

Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*

Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*

Expectation-maximization algorithms

A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*

Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*

Expert systems

Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*

F

Fading channels

Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*

Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*

Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*

Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*

Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*

Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*

Resolution Limit of Positioning Error for Range-Free Localization Schemes. *Gui, L.*, +, *JSYST June 2020 2980-2989*

Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading. *Chang, K.*, +, *JSYST Sept. 2020 4047-4058*

Failure analysis

A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*

A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*

Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*

Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*

Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. *Peyghami, S.*, +, *JSYST June 2020 2861-2872*

Fans

Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*

Fast Fourier transforms

Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*

Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*

Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

Fault currents

Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*

Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*

Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*

Fault detection

A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*

Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*

Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*

Fault diagnosis

A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*

A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*

A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*

A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*

An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Novel Change Detection and Fault Classification Scheme for AC Microgrids. *Jarrahi, M.A.*, +, *JSYST Sept. 2020 3987-3998*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*
Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Fault location
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*

Fault tolerance
A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*

Fault tolerant computing
Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems. *Xia, J.*, +, *JSYST Sept. 2020 4296-4307*

Fault tolerant control
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*

Fault tolerant systems
A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*

Fault trees
Dynamic Fault Tree Generation for Safety-Critical Systems Within a Systems Engineering Approach. *Baklouti, A.*, +, *JSYST March 2020 1512-1522*

Faulting
An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*

FCC
A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*

Feature extraction
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
Birds of a *Feature:* Intrafamily Clustering for Version Identification of Packed Malware. *Park, L.H.*, +, *JSYST Sept. 2020 4545-4556*
Resist Interest Flooding Attacks via Entropy–SVM and Jensen–Shannon Divergence in Information-Centric Networking. *Zhi, T.*, +, *JSYST June 2020 1776-1787*
WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. *Chen, Z.*, +, *JSYST June 2020 3001-3010*

Feedback
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*

Feedforward neural networks
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*

Femtocellular radio
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Procurement-Based User Association for LTE-Advanced HetNets. *Kumar, S.*, +, *JSYST Sept. 2020 3194-3201*
WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*

Field programmable gate arrays
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

File organization
Traffic Control for RDMA-Enabled Data Center Networks: A Survey. *Guo, Z.*, +, *JSYST March 2020 677-688*

Filtering theory
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*

Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*

Financial data processing

E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*

Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. *Saad, M.*, +, *JSYST March 2020 321-332*

Financial management

Classification Methods Applied to Credit Scoring With Collateral. *Teles, G.*, +, *JSYST Sept. 2020 4557-4566*

Finite state machines

A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines. *Nan, Y.*, +, *JSYST June 2020 1611-1622*

MQry: Elastic Validity Region for Querying Mobile Point-of-Interests in Infrastructure-Less Networks. *Jung, B.*, +, *JSYST June 2020 1852-1861*

Firewalls

Adversarial-Example Attacks Toward Android Malware Detection System. *Li, H.*, +, *JSYST March 2020 653-656*

Flexible manufacturing systems

Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing. *Meng, Z.*, +, *JSYST March 2020 113-123*

Flywheels

A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*

An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*

Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*

Forecasting

A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*

Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*

Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*

Formal specification

An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*

Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*

Formal verification

Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*

Efficient Population of the Verification Tradespace Using Bayesian Inference. *Farkhondehmaal, F.*, +, *JSYST Sept. 2020 3225-3232*

Fourier transforms

An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*

Fractals

Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics. *Chen, Y.*, +, *JSYST June 2020 2202-2213*

Fraud

E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*

Free-space optical communication

Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. *Chvojka, P.*, +, *JSYST June 2020 2544-2550*

On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*

Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*

Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*

User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*

Frequency allocation

An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*

Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*

WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*

Frequency control

Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*

Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*

Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*

Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*

Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks. *Liu, S.*, +, *JSYST June 2020 2593-2596*

Frequency division multiple access

An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*

Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*

Frequency division multiplexing

A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*

A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*

Frequency estimation

An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Frequency measurement

Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*

Frequency modulation

An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Frequency response

Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*

Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System. *Hong, Y.*, +, *JSYST June 2020 2759-2769*

Frequency shift keying

Performance of Wireless Powered DF Relay System Under Nakagami-*m* Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*

Frequency stability

Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*

Frequency-domain analysis

Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*

Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*

Fuel cells
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*
Fuzzy control
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Fuzzy logic
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*
Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*
Fuzzy neural networks
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Fuzzy reasoning
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Fuzzy set theory
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network. *Zhang, C.*, +, *JSYST June 2020 1840-1851*
Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*

G

Game theory
A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem. *Belhaiza, S.*, +, *JSYST March 2020 1147-1158*
Deployment of Drone-Based Small Cells for Public Safety Communication System. *Ali, K.*, +, *JSYST June 2020 2882-2891*
Disclose or Exploit? A Game-Theoretic Approach to Strategic Decision Making in Cyber-Warfare. *Chen, H.*, +, *JSYST Sept. 2020 3779-3790*
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*
Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization. *Gomez, M.M.*, +, *JSYST March 2020 489-499*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
ORCID: Opportunistic Reconnectivity for Network Management in the Presence of Dumb Nodes in Wireless Sensor Networks. *Roy, A.*, +, *JSYST March 2020 9-16*
Traffic-Aware Multiple Association in Ultradense Networks: A State-Based Potential Game. *Wang, X.*, +, *JSYST Sept. 2020 4356-4367*
WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*
Games
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Gamma distribution
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Performance of Opportunistic Receiver Beam Selection in Multiaperture OWC Systems Over Foggy Channels. *Rahman, Z.*, +, *JSYST Sept. 2020 4036-4046*
Gaussian channels
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Gaussian distribution
Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*
Gaussian noise
A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System. *Qu, H.*, +, *JSYST Sept. 2020 3161-3172*
Gaussian processes
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Generators
Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*
Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*
Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*
Genetic algorithms
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*
Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop. *Liu, J.*, +, *JSYST March 2020 1503-1511*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Quantum-Inspired Genetic Programming Algorithm for the Crude Oil Scheduling of a Real-World Refinery. *Pereira, C.S.*, +, *JSYST Sept. 2020 3926-3937*

Geometry
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*
Geophysical image processing
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Geophysical techniques
An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*
Gesture recognition
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Global Positioning System
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*
Goods distribution
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
Government data processing
A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature. *Kumar, M.*, +, *JSYST June 2020 2032-2041*
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*
Gradient methods
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Graph coloring
Content Placement in Cache Networks Using Graph Coloring. *Javedankherad, M.*, +, *JSYST Sept. 2020 3129-3138*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Graph theory
A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*
A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems. *Mohammed, O.O.*, +, *JSYST March 2020 1230-1233*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
Cyber-Social Systems: Modeling, Inference, and Optimal Design. *Doostmohammadian, M.*, +, *JSYST March 2020 73-83*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*
Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks. *Xiang, S.*, +, *JSYST June 2020 1752-1763*
Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*
Simulating Systems-of-Systems With Agent-Based Modeling: A Systematic Literature Review. *Silva, R.d.A.*, +, *JSYST Sept. 2020 3609-3617*
Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. *Retiere, N.*, +, *JSYST June 2020 2736-2747*
Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach. *Zhuang, Z.*, +, *JSYST June 2020 1658-1669*
Graphics processing units
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*
Greedy algorithms
Duration-Sensitive Task Allocation for Mobile Crowd Sensing. *Lai, C.*, +, *JSYST Sept. 2020 4430-4441*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*
Green computing
Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*
Green products
Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*
Grey systems
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*

H

H^{∞} control
A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*
Handicapped aids
A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities. *Chan, R.Y.*, +, *JSYST March 2020 208-219*
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Hardware
A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
Hardware-in-the loop simulation
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Harmonic distortion
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Harmonics suppression
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*

Hazardous materials
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
Health care
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation. *Lin, D.*, +, *JSYST June 2020 1716-1727*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System. *Verma, G.K.*, +, *JSYST June 2020 1704-1715*
Hemodynamics
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*
Heuristic algorithms
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*
Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*
Hierarchical systems
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
Higher order statistics
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Hilbert transforms
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Home appliances
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Home networks
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
Human computer interaction
A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities. *Chan, R.Y.*, +, *JSYST March 2020 208-219*
Human-robot interaction
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
HVDC power converters
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
HVDC power transmission
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*
Hybrid electric vehicles
System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*
Hybrid power systems
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System. *Chatterjee, A.*, +, *JSYST Dec. 2020 4874-4882*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
Hysteresis
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*

I

IEC standards
A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850. *Aftab, M.A.*, +, *JSYST June 2020 2676-2683*
IEEE standards
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*
IIR filters
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
Image classification
Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*
Image color analysis
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*
Image filtering
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*

Image matching
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
Image representation
A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*
Image sensors
A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*
Impedance
Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*
Impedance matching
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Importance sampling
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Impulse noise
A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System. *Qu, H.*, +, *JSYST Sept. 2020 3161-3172*
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Incentive schemes
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*
Indoor communication
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*
Indoor navigation
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Indoor radio
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. *Chen, Z.*, +, *JSYST June 2020 3001-3010*
Induction generators
An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System. *Chatterjee, A.*, +, *JSYST Dec. 2020 4874-4882*
Inductive power transmission
A Review on the Recent Development in the Design and Optimization of Magnetic Coupling Mechanism of Wireless Power Transmission. *Dai, Z.*, +, *JSYST Sept. 2020 4368-4381*
Fast Wireless Power Transfer for Multiple Receivers in Linear Topology. *Lee, K.*, +, *JSYST March 2020 649-652*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Industrial control
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis. *Gourisetti, S.N.G.*, +, *JSYST June 2020 1897-1908*
Inertial navigation
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Inference mechanisms
Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*
Information retrieval
Efficient Ranked Multi-Keyword Retrieval With Privacy Protection for Multiple Data Owners in Cloud Computing. *Sun, J.*, +, *JSYST June 2020 1728-1739*
Information technology
Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*
Hybrid Configuration in Information Technology Value Model. *Abdurrahman, L., JSYST Sept. 2020 4515-4522*
Information theory
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
Infrared imaging
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Inspection
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*
Integer programming
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
An MINLP-Based Approach for the Design-for-Control of Resilient Water Supply Systems. *Ulusoy, A.*, +, *JSYST Sept. 2020 4579-4590*
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*

On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*

Integrated circuits
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*

Intelligent control
An Intelligent Elevator Development and Management System. *Van, L.*, +, *JSYST June 2020 3015-3026*

Intercarrier interference
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

Interchannel interference
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*

Interconnected systems
Engineering Resilient Complex Systems: The Necessary Shift Toward Complexity Science. *Punzo, G.*, +, *JSYST Sept. 2020 3865-3874*

Interference
Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

Interference cancellation
Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*

Interference suppression
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. *Jafari, R.*, +, *JSYST June 2020 2109-2120*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*

Internet
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A Hierarchical Attention Model for CTR Prediction Based on User Interest. *Wang, Q.*, +, *JSYST Sept. 2020 4015-4024*
A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature. *Kumar, M.*, +, *JSYST June 2020 2032-2041*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms. *Ye, J.*, +, *JSYST March 2020 1285-1296*
An Analytical Model for Information Centric Internet of Things Networks in Opportunistic Scenarios. *Yang, J.*, +, *JSYST March 2020 172-183*
Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model. *Wang, K.*, +, *JSYST June 2020 1862-1873*
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Secure Distribution of Protected Content in Information-Centric Networking. *Bilal, M.*, +, *JSYST June 2020 1921-1932*

Internet of Things
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT). *Hammi, B.*, +, *JSYST Sept. 2020 3440-3450*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
An Analytical Model for Information Centric Internet of Things Networks in Opportunistic Scenarios. *Yang, J.*, +, *JSYST March 2020 172-183*
An Intelligent Elevator Development and Management System. *Van, L.*, +, *JSYST June 2020 3015-3026*
Anonymous Aggregate Encryption Scheme for Industrial Internet of Things. *Deng, L., JSYST Sept. 2020 3999-4006*
Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*

Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments. *Xiong, H.*, +, *JSYST March 2020 310-320*
Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*
Improved Teaching Learning-Based QoS-Aware Services Composition for Internet of Things. *Khanouche, M.E.*, +, *JSYST Sept. 2020 4155-4164*
Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*
MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*
Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*
SDNMM—A Generic SDN-Based Modular Management System for Wireless Sensor Networks. *Ndiaye, M.*, +, *JSYST June 2020 2347-2357*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*
Utility-Driven Data Analytics on Uncertain Data. *Gan, W.*, +, *JSYST Sept. 2020 4442-4453*

Internetworking
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*

Intersymbol interference
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Nanomachine Localization in a Diffusive Molecular Communication System. *Kumar, S., JSYST June 2020 3011-3014*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Interviews
Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*

Invasive software
Adversarial-Example Attacks Toward Android Malware Detection System. *Li, H.*, +, *JSYST March 2020 653-656*
Birds of a *Feature:* Intrafamily Clustering for Version Identification of Packed Malware. *Park, L.H.*, +, *JSYST Sept. 2020 4545-4556*
SieveDroid: Intercepting Undesirable Private-Data Transmissions in Android Applications. *Huang, J.*, +, *JSYST March 2020 375-386*

Inverse transforms
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

Inverters
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System. *Chatterjee, A.*, +, *JSYST Dec. 2020 4874-4882*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*

Investments
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Review on the Recent Development in the Design and Optimization of Magnetic Coupling Mechanism of Wireless Power Transmission. *Dai, Z.*, +, *JSYST Sept. 2020 4368-4381*
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*

Invoicing
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*

IP networks
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*

Iterative decoding
Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*

Iterative methods
A Distributed Convex Relaxation Approach to Solve the Power Flow Problem. *Manshadi, S.D.*, +, *JSYST March 2020 803-812*
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*

Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Nanomachine Localization in a Diffusive Molecular Communication System. *Kumar, S., JSYST June 2020 3011-3014*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*

J

Jacobian matrices
A Distributed Convex Relaxation Approach to Solve the Power Flow Problem. *Manshadi, S.D.*, +, *JSYST March 2020 803-812*
Jamming
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Job shop scheduling
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

K

Kalman filters
A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*
An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Kinematics
High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*
Knapsack problems
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*
Knowledge engineering
Use of Patterns for Know-How Reuse in a Model-Based Systems Engineering Framework. *Wu, Q.*, +, *JSYST Dec. 2020 4765-4776*
Knowledge representation languages
Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*

L

Laboratory techniques
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Novel Change Detection and Fault Classification Scheme for AC Microgrids. *Jarrahi, M.A.*, +, *JSYST Sept. 2020 3987-3998*
Large-scale systems
Engineering Resilient Complex Systems: The Necessary Shift Toward Complexity Science. *Punzo, G.*, +, *JSYST Sept. 2020 3865-3874*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Lattice Boltzmann methods
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*
Learning (artificial intelligence)
A Hierarchical Attention Model for CTR Prediction Based on User Interest. *Wang, Q.*, +, *JSYST Sept. 2020 4015-4024*
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems. *Pandey, A.*, +, *JSYST June 2020 1953-1962*
A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation. *Agrawal, H.*, +, *JSYST June 2020 2485-2496*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*

Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size. *Kumar, R.*, +, *JSYST June 2020 2085-2096*
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Improved Teaching Learning-Based QoS-Aware Services Composition for Internet of Things. *Khanouche, M.E.*, +, *JSYST Sept. 2020 4155-4164*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Moving Target Defense Mechanism for Side-Channel Attacks. *Vuppala, S.*, +, *JSYST June 2020 1810-1819*
On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach. *Lee, H.*, +, *JSYST June 2020 2589-2592*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning. *Chaturvedi, A.*, +, *JSYST Sept. 2020 4007-4014*
Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. *Saad, M.*, +, *JSYST March 2020 321-332*
Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach. *Zhuang, Z.*, +, *JSYST June 2020 1658-1669*
WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. *Chen, Z.*, +, *JSYST June 2020 3001-3010*

Least mean squares methods
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*

Least squares approximations
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*

Lens antennas
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*

Life cycle costing
A Method to Establish a Trade-Space of System Requirements and Life Cycle Cost. *Abdul Rahim, N.B.*, +, *JSYST March 2020 1257-1264*

Lifts
An Intelligent Elevator Development and Management System. *Van, L.*, +, *JSYST June 2020 3015-3026*

Light emitting diodes
Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*
Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*
User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*

Lightning protection
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*

Linear antenna arrays
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*

Linear matrix inequalities
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*

Linear programming
A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem. *Belhaiza, S.*, +, *JSYST March 2020 1147-1158*
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*
On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*

Linear quadratic control
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Linear systems
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*

Linearization techniques
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*

Linked Data
Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*

Lithium compounds
Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*

Living systems
MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*

Load (electric)
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*

Load flow
A Distributed Convex Relaxation Approach to Solve the Power Flow Problem. *Manshadi, S.D.*, +, *JSYST March 2020 803-812*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*

Electrical Power System Resilience Assessment: A Comprehensive Approach. *Sabouhi, H.*, +, *JSYST June 2020 2643-2652*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. *Retiere, N.*, +, *JSYST June 2020 2736-2747*

Load forecasting
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*

Load management
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*

Load modeling
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*

Load regulation
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*

Load shedding
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System. *Hong, Y.*, +, *JSYST June 2020 2759-2769*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*

Location based services
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*

Log normal distribution
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics. *Chen, Y.*, +, *JSYST June 2020 2202-2213*

Logic gates
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*

Logistics
A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*

Long Term Evolution
Procurement-Based User Association for LTE-Advanced HetNets. *Kumar, S.*, +, *JSYST Sept. 2020 3194-3201*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading. *Chang, K.*, +, *JSYST Sept. 2020 4047-4058*

Losses
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*

Low earth orbit satellites
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*

Lyapunov methods
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

M

Machine bearings
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Machine control
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*

Machine learning
Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*

Magnetic field measurement
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Magnetic sensors
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Maintenance engineering
Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*

Manipulator dynamics
High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*

Manufacturing systems
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*

Marine pollution
System Dynamic-Based Oil Weathering Processes: Simulation and Analysis. *Kasimu, A.*, +, *JSYST March 2020 1375-1383*

Marine vehicles
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*

Markov processes
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
An Analytical Model for Information Centric Internet of Things Networks in Opportunistic Scenarios. *Yang, J.*, +, *JSYST March 2020 172-183*
Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation. *Agrawal, H.*, +, *JSYST June 2020 2485-2496*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Online Planning for Multiagent Situational Information Gathering in the Markov Environment. *Zhou, X.*, +, *JSYST June 2020 1798-1809*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Matched filters
Integrated Communication and Localization System With OFDM-Chirp Waveform. *Jia, W.*, +, *JSYST June 2020 2464-2472*
Mathematical analysis
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
White-Box Implementation of Shamir's Identity-Based Signature Scheme. *Feng, Q.*, +, *JSYST June 2020 1820-1829*
Mathematical model
An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*
High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*
Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*
Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*
Mathematical programming
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*
Spotting Key Members in Networks: Clustering-Embedded Eigenvector Centrality. *Carrizosa, E.*, +, *JSYST Sept. 2020 3916-3925*
Matlab
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Proactive Forwarding of High Data Rate in Smart Virtualization Networks for High-Speed Trains. *Yaseen, F.A.*, +, *JSYST June 2020 1670-1681*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*
Matrix algebra
A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes. *Chen, J.*, +, *JSYST March 2020 244-252*
Electrical Power System Resilience Assessment: A Comprehensive Approach. *Sabouhi, H.*, +, *JSYST June 2020 2643-2652*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*
SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning. *Chaturvedi, A.*, +, *JSYST Sept. 2020 4007-4014*
Maximum likelihood estimation
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Nanomachine Localization in a Diffusive Molecular Communication System. *Kumar, S., JSYST June 2020 3011-3014*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Maximum power point trackers
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
Mean square error methods
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Measurement
A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure. *Lucic, M.C.*, +, *JSYST Dec. 2020 4786-4797*
Measurement errors
Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. *Zacharia, L.*, +, *JSYST March 2020 422-432*
Mechanical engineering computing
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Mechatronics
Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*
Medical administrative data processing
Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation. *Lin, D.*, +, *JSYST June 2020 1716-1727*
Medical computing
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*

MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*

Medical image processing

Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*

Medical information systems

ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*

Medical signal detection

A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems. *Pandey, A.*, +, *JSYST June 2020 1953-1962*

Medical signal processing

A Multistage Deep Residual Network for Biomedical Cyber-Physical Systems. *Pandey, A.*, +, *JSYST June 2020 1953-1962*

Memory management

Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*

Mercury (metals)

Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*

Message authentication

A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT). *Hammi, B.*, +, *JSYST Sept. 2020 3440-3450*

A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*

A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*

Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*

Message passing

Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*

Metadata

Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*

Meteorology

PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*

Metering

An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*

Microcellular radio

WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*

Microcontrollers

Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*

Microgrids

An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*

Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*

Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*

PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*

Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*

Microorganisms

Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*

Microprocessor chips

Calibrating Phase Offsets for Commodity WiFi. *Zhang, D.*, +, *JSYST March 2020 661-664*

Microrobots

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Microstrip antenna arrays

Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*

Military communication

A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*

System-of-Systems Quality Attribute-Based Architectural Alternatives. *Nelson, T.*, +, *JSYST Sept. 2020 3844-3854*

Military computing

A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines. *Nan, Y.*, +, *JSYST June 2020 1611-1622*

System-of-Systems Quality Attribute-Based Architectural Alternatives. *Nelson, T.*, +, *JSYST Sept. 2020 3844-3854*

Millimeter wave antenna arrays

Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*

Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*

Millimeter wave antennas

Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*

Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*

Millimeter wave communication

Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*

Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*

On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*

Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*

Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*

Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*

MIMO communication

A System Simulation Framework for Modeling Space Modulation Techniques. *Hiari, O.*, +, *JSYST March 2020 1435-1446*

Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*

Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*

Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*

Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*

Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*

D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*

Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Secure Communications Over Cell-Free Massive MIMO Networks With Hardware Impairments. *Zhang, X.*, +, *JSYST June 2020 1909-1920*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*
Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*
User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*

MIMO radar
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*

MIMO systems
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*

Minimization
Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*

Mining
Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*

MISO communication
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*

Missile control
Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*

Missile guidance
Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*

Missiles
A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines. *Nan, Y.*, +, *JSYST June 2020 1611-1622*

Mobile computing
A Context-Aware Augmentative and Alternative Communication System for School Children With Intellectual Disabilities. *Chan, R.Y.*, +, *JSYST March 2020 208-219*
A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*
Adversarial-Example Attacks Toward Android Malware Detection System. *Li, H.*, +, *JSYST March 2020 653-656*
Cache-Aware Computation Offloading in IoT Systems. *Wei, H.*, +, *JSYST March 2020 61-72*
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*
Duration-Sensitive Task Allocation for Mobile Crowd Sensing. *Lai, C.*, +, *JSYST Sept. 2020 4430-4441*
Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation. *Lin, D.*, +, *JSYST June 2020 1716-1727*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*
SieveDroid: Intercepting Undesirable Private-Data Transmissions in Android Applications. *Huang, J.*, +, *JSYST March 2020 375-386*
Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*
Venue2Vec: An Efficient Embedding Model for Fine-Grained User Location Prediction in Geo-Social Networks. *Xu, S.*, +, *JSYST June 2020 1740-1751*
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*

Mobile handsets
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*

Mobile nodes
Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*

Mobile radio
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
Energy-Aware Connectivity Restoration Mechanism for Cyber-Physical Systems of Networked Sensors and Robots. *Baroudi, U.*, +, *JSYST Sept. 2020 3093-3104*
Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network. *Zhang, C.*, +, *JSYST June 2020 1840-1851*

Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*

Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*

Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks. *Wang, T.*, +, *JSYST March 2020 410-421*

Mobile robots

A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*

A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*

Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*

Energy-Aware Connectivity Restoration Mechanism for Cyber-Physical Systems of Networked Sensors and Robots. *Baroudi, U.*, +, *JSYST Sept. 2020 3093-3104*

Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*

FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*

Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*

Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition. *Xie, Y.*, +, *JSYST March 2020 1245-1256*

Navigation of Scalar Fronts With Multirobot Clusters in Simulation and Experiment. *McDonald, R.T.*, +, *JSYST Sept. 2020 3755-3766*

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Path Planning for Autonomous Underwater Vehicles With Simultaneous Arrival in Ocean Environment. *Yao, P.*, +, *JSYST Sept. 2020 3185-3193*

Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*

Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*

Mobility management (mobile radio)

Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*

Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*

Proactive Forwarding of High Data Rate in Smart Virtualization Networks for High-Speed Trains. *Yaseen, F.A.*, +, *JSYST June 2020 1670-1681*

Modeling

An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*

Research on SoS-GERT Network Model for Equipment System of Systems Contribution Evaluation Based on Joint Operation. *Wang, Z.*, +, *JSYST Sept. 2020 4188-4196*

Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*

Modulation

A System Simulation Framework for Modeling Space Modulation Techniques. *Hiari, O.*, +, *JSYST March 2020 1435-1446*

Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*

Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*

Molecular communication (telecommunication)

Nanomachine Localization in a Diffusive Molecular Communication System. *Kumar, S., JSYST June 2020 3011-3014*

Monitoring

Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*

Fault Detection for Low-Voltage Residential Distribution Systems With Low-Frequency Measured Data. *Shafiei, M.*, +, *JSYST Dec. 2020 5265-5273*

Monte Carlo methods

A Method to Establish a Trade-Space of System Requirements and Life Cycle Cost. *Abdul Rahim, N.B.*, +, *JSYST March 2020 1257-1264*

An Agent-Based Model of Miscommunication in Complex System Engineering Organizations. *Meluso, J.*, +, *JSYST Sept. 2020 3463-3474*

An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*

Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*

Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. *Sun, L.*, +, *JSYST June 2020 2801-2812*

Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*

Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*

Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*

On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*

Online Planning for Multiagent Situational Information Gathering in the Markov Environment. *Zhou, X.*, +, *JSYST June 2020 1798-1809*

Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*

Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *Javidsharifi, M.*, +, *JSYST June 2020 2703-2712*

Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks. *Xiang, S.*, +, *JSYST June 2020 1752-1763*

Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*

Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*

Motion control

Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*

Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*

Multi-access systems

A Novel Communication System of High Capacity. *Fattouche, M., JSYST Sept. 2020 4197-4208*

Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*

Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*

Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*

Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels. *Lai, X.*, +, *JSYST Sept. 2020 3410-3413*

Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*

End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*

Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*

Multi-agent systems
Consensus and Clustering of Expressed and Private Opinions in Dynamical Networks Against Attacks. *Shang, Y., JSYST June 2020 2078-2084*
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
Cyber-Social Systems: Modeling, Inference, and Optimal Design. *Doostmohammadian, M.*, +, *JSYST March 2020 73-83*
Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. *Ioannou, I.*, +, *JSYST Sept. 2020 4232-4241*
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Online Planning for Multiagent Situational Information Gathering in the Markov Environment. *Zhou, X.*, +, *JSYST June 2020 1798-1809*
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*
Simulating Systems-of-Systems With Agent-Based Modeling: A Systematic Literature Review. *Silva, R.d.A.*, +, *JSYST Sept. 2020 3609-3617*
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*

Multi-robot systems
A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Navigation of Scalar Fronts With Multirobot Clusters in Simulation and Experiment. *McDonald, R.T.*, +, *JSYST Sept. 2020 3755-3766*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*

Multicast communication
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*

Multilayer perceptrons
A Hierarchical Attention Model for CTR Prediction Based on User Interest. *Wang, Q.*, +, *JSYST Sept. 2020 4015-4024*

Multipath channels
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Multiplexing
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*

Multiuser channels
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Multiuser detection
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*

Museums
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*

N

Nakagami channels
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*
Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels. *Ji, S.*, +, *JSYST June 2020 2370-2381*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Natural gas technology
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*

Natural language processing
Venue2Vec: An Efficient Embedding Model for Fine-Grained User Location Prediction in Geo-Social Networks. *Xu, S.*, +, *JSYST June 2020 1740-1751*

Navigation
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*

Nearest neighbor methods
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*

Network coding
A Priority-Based Multiobjective Design for Routing, Spectrum, and Network Coding Assignment Problem in Network-Coding-Enabled Elastic Optical Networks. *Hai, D.T.*, +, *JSYST June 2020 2358-2369*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*

Network servers
Traffic Control for RDMA-Enabled Data Center Networks: A Survey. *Guo, Z.*, +, *JSYST March 2020 677-688*

Network synthesis
Calibrating Phase Offsets for Commodity WiFi. *Zhang, D.*, +, *JSYST March 2020 661-664*

Network theory (graphs)
Consensus and Clustering of Expressed and Private Opinions in Dynamical Networks Against Attacks. *Shang, Y., JSYST June 2020 2078-2084*
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*

Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Spotting Key Members in Networks: Clustering-Embedded Eigenvector Centrality. *Carrizosa, E.*, +, *JSYST Sept. 2020 3916-3925*
SysEvoRecomd: Network Reconstruction by Graph Evolution and Change Learning. *Chaturvedi, A.*, +, *JSYST Sept. 2020 4007-4014*

Neural networks
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Adversarial-Example Attacks Toward Android Malware Detection System. *Li, H.*, +, *JSYST March 2020 653-656*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*
Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach. *Zhuang, Z.*, +, *JSYST June 2020 1658-1669*

Neurocontrollers
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Newton method
Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*

Newton-Raphson method
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*

Noise measurement
Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*

NOMA
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

Nonlinear control systems
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Nonlinear dynamical systems
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*

Nonlinear programming
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
An MINLP-Based Approach for the Design-for-Control of Resilient Water Supply Systems. *Ulusoy, A.*, +, *JSYST Sept. 2020 4579-4590*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Integrated Utility-Transit Model for Optimal Configuration of Battery Electric Bus Systems. *El-Taweel, N.A.*, +, *JSYST March 2020 738-748*

Nonvolatile memory
Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*

Notch filters
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*

Numerical analysis
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*

Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*

O

Object detection
A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
Object tracking
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*
Object-oriented programming
An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*
Bioanalytical Device Design With Model-Based Systems Engineering Tools. *Evin, E.*, +, *JSYST Sept. 2020 3139-3149*
Observability
Minimal Driver Nodes for Structural Controllability of Large-Scale Dynamical Systems: Node Classification. *Doostmohammadian, M., JSYST Sept. 2020 4209-4216*
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*
Observers
Brief Survey on Attack Detection Methods for Cyber-Physical Systems. *Tan, S.*, +, *JSYST Dec. 2020 5329-5339*
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
OFDM
A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*
A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*
Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Integrated Communication and Localization System With OFDM-Chirp Waveform. *Jia, W.*, +, *JSYST June 2020 2464-2472*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*
Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*
Orthogonal Chirp Division Multiplexing for Baseband Data Communication Systems. *De M. B. A. Dib, L.*, +, *JSYST June 2020 2164-2174*
Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading. *Chang, K.*, +, *JSYST Sept. 2020 4047-4058*
Oil pollution
System Dynamic-Based Oil Weathering Processes: Simulation and Analysis. *Kasimu, A.*, +, *JSYST March 2020 1375-1383*
Oil refining
Quantum-Inspired Genetic Programming Algorithm for the Crude Oil Scheduling of a Real-World Refinery. *Pereira, C.S.*, +, *JSYST Sept. 2020 3926-3937*
On load tap changers
An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
Ontologies (artificial intelligence)
Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*
Open systems
Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing. *Meng, Z.*, +, *JSYST March 2020 113-123*
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*
Optical communication
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Optical fiber networks
A Priority-Based Multiobjective Design for Routing, Spectrum, and Network Coding Assignment Problem in Network-Coding-Enabled Elastic Optical Networks. *Hai, D.T.*, +, *JSYST June 2020 2358-2369*
Optical links
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*

Optical modulation
Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. *Chvojka, P.*, +, *JSYST June 2020 2544-2550*
Optical radar
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Optical transmitters
Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*
Optimal control
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC. *Bangash, Y.A.*, +, *JSYST Sept. 2020 4489-4499*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. *Liu, J.*, +, *JSYST June 2020 3027-3038*
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*
Optimal scheduling
Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*
Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*
Optimization
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*
A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses. *Moghaddam, M.J.H.*, +, *JSYST Sept. 2020 3530-3538*
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Periodic Multinode Charging and Data Collection Scheme With Optimal Traveling Path in WRSNs. *Lyu, Z.*, +, *JSYST Sept. 2020 3518-3529*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Review on the Recent Development in the Design and Optimization of Magnetic Coupling Mechanism of Wireless Power Transmission. *Dai, Z.*, +, *JSYST Sept. 2020 4368-4381*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
A WOA-Based Optimization Approach for Task Scheduling in Cloud Computing Systems. *Chen, X.*, +, *JSYST Sept. 2020 3117-3128*
Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Bee-Inspired Evaluation Algorithm Leads to Improved Decision Making in Groups. *Sturgis, M.*, +, *JSYST March 2020 1427-1434*
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Crowd-Based Cooperative Task Allocation via Multicriteria Optimization and Decision-Making. *Zhao, L.*, +, *JSYST Sept. 2020 3904-3915*
Cyber-Social Systems: Modeling, Inference, and Optimal Design. *Doostmohammadian, M.*, +, *JSYST March 2020 73-83*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Duration-Sensitive Task Allocation for Mobile Crowd Sensing. *Lai, C.*, +, *JSYST Sept. 2020 4430-4441*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop. *Liu, J.*, +, *JSYST March 2020 1503-1511*
Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*

Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks. *Xiang, S.*, +, *JSYST June 2020 1752-1763*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach. *Lee, H.*, +, *JSYST June 2020 2589-2592*
Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks. *Wang, T.*, +, *JSYST March 2020 410-421*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*
Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*
Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences. *Li, F.*, +, *JSYST June 2020 2187-2191*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*
Toward a More Reliable System for Contingency Selection in Static Security Analysis of Electric Power Systems. *da Silva, J.M.*, +, *JSYST March 2020 1183-1194*
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*
Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*
Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*
WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*

Orbits
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*

Organizational aspects
An Agent-Based Model of Miscommunication in Complex System Engineering Organizations. *Meluso, J.*, +, *JSYST Sept. 2020 3463-3474*

Organizations
Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*

Oscillations
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*

Outsourcing
Improving Security and Privacy Attribute Based Data Sharing in Cloud Computing. *Zhang, L.*, +, *JSYST March 2020 387-397*

Overcurrent protection
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

P

Parallel algorithms
Creating Power System Network Layouts: A Fast Parallel Algorithm. *Olauson, J.*, +, *JSYST Sept. 2020 3687-3694*

Parallel processing
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*

Parameter estimation
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*

Pareto optimization
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering. *Chiu, W.*, +, *JSYST June 2020 1580-1591*

Parity check codes
Mitigation Techniques for Impulsive Noise With Memory Modeled by a Two State Markov-Gaussian Process. *Alam, M.S.*, +, *JSYST Sept. 2020 4079-4088*

Particle filtering (numerical methods)
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. *Chen, L.*, +, *JSYST Sept. 2020 3301-3312*
Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*

Particle swarm optimization
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System. *Hong, Y.*, +, *JSYST June 2020 2759-2769*
Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*
System Architecture for Real-Time Surface Inspection Using Multiple UAVs. *Hoang, V.T.*, +, *JSYST June 2020 2925-2936*
Passive optical networks
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Path planning
A Periodic Multinode Charging and Data Collection Scheme With Optimal Traveling Path in WRSNs. *Lyu, Z.*, +, *JSYST Sept. 2020 3518-3529*
Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework. *Wu, J.*, +, *JSYST Dec. 2020 5210-5220*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Navigation of Scalar Fronts With Multirobot Clusters in Simulation and Experiment. *McDonald, R.T.*, +, *JSYST Sept. 2020 3755-3766*
Patient rehabilitation
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*
Pattern classification
A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
Birds of a *Feature:* Intrafamily Clustering for Version Identification of Packed Malware. *Park, L.H.*, +, *JSYST Sept. 2020 4545-4556*
Classification Methods Applied to Credit Scoring With Collateral. *Teles, G.*, +, *JSYST Sept. 2020 4557-4566*
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*
E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Pattern clustering
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes. *Chen, J.*, +, *JSYST March 2020 244-252*
Birds of a *Feature:* Intrafamily Clustering for Version Identification of Packed Malware. *Park, L.H.*, +, *JSYST Sept. 2020 4545-4556*
Consensus and Clustering of Expressed and Private Opinions in Dynamical Networks Against Attacks. *Shang, Y., JSYST June 2020 2078-2084*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
New Clustering Algorithms for Twitter Sentiment Analysis. *Rehioui, H.*, +, *JSYST March 2020 530-537*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Pattern matching
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*
PD control
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Peer-to-peer computing
Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network. *Zhang, C.*, +, *JSYST June 2020 1840-1851*
Performance evaluation
Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*
Permanent magnet generators
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*
Personal area networks
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
Petri nets
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*
PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*
Phase estimation
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*
Phase modulation
Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. *Chvojka, P.*, +, *JSYST June 2020 2544-2550*
Phase shift keying
Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*
Phase shifters
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
Phasor measurement
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*

Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. *Zacharia, L.*, +, *JSYST March 2020 422-432*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*

Phasor measurement units
Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*

Photovoltaic cells
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*

Photovoltaic power systems
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Physical layer
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*

PI control
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Picocellular radio
Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*

Pipelines
A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081*

Pipes
A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081*
An MINLP-Based Approach for the Design-for-Control of Resilient Water Supply Systems. *Ulusoy, A.*, +, *JSYST Sept. 2020 4579-4590*

Planning (artificial intelligence)
Online Planning for Multiagent Situational Information Gathering in the Markov Environment. *Zhou, X.*, +, *JSYST June 2020 1798-1809*

Poles and towers
An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*

Polynomials
Polynomial Chaos Expansion for Parametric Problems in Engineering Systems: A Review. *Shen, D.*, +, *JSYST Sept. 2020 4500-4514*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*

Portable instruments
MiND: Mind Networked Device Architecture for Attention-Gated Ambient Assisted Living Systems. *Mukherjee, A.*, +, *JSYST March 2020 1325-1332*

Pose estimation
RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. *Chen, L.*, +, *JSYST Sept. 2020 3301-3312*

Position control
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Position sensitive particle detectors
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*

Power aware computing
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*

Power cables
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*

Power capacitors
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*

Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor. *Makwana, Y.M.*, +, *JSYST June 2020 2770-2779*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*

Power consumption
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*

Power control
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Outage and ASE Analyses for Power Controlled D2D Communication. *Pawar, P.*, +, *JSYST June 2020 2269-2280*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*

Power conversion
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*

Power converters
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Power demand
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*

Power distribution
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*

Power distribution control
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage. *Doan, S.*, +, *JSYST March 2020 889-899*

Power distribution economics
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience. *Poudel, S.*, +, *JSYST Sept. 2020 3506-3517*

Power distribution faults
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Novel Change Detection and Fault Classification Scheme for AC Microgrids. *Jarrahi, M.A.*, +, *JSYST Sept. 2020 3987-3998*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*

Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*

Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Power distribution lines

An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*

Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*

Power distribution planning

A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*

Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience. *Poudel, S.*, +, *JSYST Sept. 2020 3506-3517*

Power distribution protection

Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Power distribution reliability

A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses. *Moghaddam, M.J.H.*, +, *JSYST Sept. 2020 3530-3538*

A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*

An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*

An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*

Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*

Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*

PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*

Power engineering computing

A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*

A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*

A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*

A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*

A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850. *Aftab, M.A.*, +, *JSYST June 2020 2676-2683*

A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*

A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*

A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*

A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*

An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*

An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*

An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*

An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*

Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*

Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. *Mahmud, K.*, +, *JSYST Sept. 2020 3641-3652*

Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*

Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*

Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*

Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*

Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*

Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*

Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*

Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*

Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network. *Quek, Y.T.*, +, *JSYST March 2020 1395-1404*

Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*

Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*

Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*

SMS–A Security Management System for Steam Turbines Using a Multisensor Array. *Kordestani, M.*, +, *JSYST Sept. 2020 3813-3824*

Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Power factor correction

System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Power generation

A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*

Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving. *Ahmad, W.*, +, *JSYST Dec. 2020 4820-4831*

Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*

Power generation control

A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*

A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*

A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*

A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Intrusion-Detector-Dependent Frequency Regulation for Microgrids Under Denial-of-Service Attacks. *Liu, S.*, +, *JSYST June 2020 2593-2596*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*

Power generation dispatch

A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*

Power generation economics

A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Distributed Hierarchical Control for Optimal Power Dispatch in Multiple DC Microgrids. *Babazadeh-Dizaji, R.*, +, *JSYST March 2020 1015-1023*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*

Power generation faults
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Power generation planning
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal CHP Planning in Integrated Energy Systems Considering Network Charges. *Wang, H.*, +, *JSYST June 2020 2684-2693*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*

Power generation protection
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Power generation reliability
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
An Algorithm for Detection of Fault, Islanding, and Power Swings in DG-Equipped Radial Distribution Networks. *Ebrahim, M.A.*, +, *JSYST Sept. 2020 3893-3903*
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. *Peyghami, S.*, +, *JSYST June 2020 2861-2872*

Power generation scheduling
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. *Moradi-Dalvand, M.*, +, *JSYST June 2020 2873-2881*
An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
Priority-Based Scheduling of Energy Exchanges Between Cooperative Microgrids in Risk-Averse Environment. *Lahon, R.*, +, *JSYST March 2020 1098-1108*

Power grids
A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
A Mixed Integer Nonlinear Program Based Power Load Estimator for Distribution Grid. *Yang, Y.*, +, *JSYST March 2020 842-851*
A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses. *Moghaddam, M.J.H.*, +, *JSYST Sept. 2020 3530-3538*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*

An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Energy Storage Systems Architecture Optimization for Grid Resilience With High Penetration of Distributed Photovoltaic Generation. *Confrey, J.*, +, *JSYST March 2020 1135-1146*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network. *Quek, Y.T.*, +, *JSYST March 2020 1395-1404*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*
Novel Change Detection and Fault Classification Scheme for AC Microgrids. *Jarrahi, M.A.*, +, *JSYST Sept. 2020 3987-3998*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*
Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage. *Doan, S.*, +, *JSYST March 2020 889-899*

Power markets

A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems. *Mohammed, O.O.*, +, *JSYST March 2020 1230-1233*
A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
Equilibrium Analysis of Electricity Market With Demand Response Exchange to Counterbalance Bid Deviations of Renewable Generators. *Wang, X.*, +, *JSYST June 2020 2713-2724*
Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Priority-Based Scheduling of Energy Exchanges Between Cooperative Microgrids in Risk-Averse Environment. *Lahon, R.*, +, *JSYST March 2020 1098-1108*

Power outages

PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*

Power overhead lines

Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*

Power supply quality

A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. *Priyadarshi, N.*, +, *JSYST Sept. 2020 3334-3342*
A New Model for Reconfiguration and Distributed Generation Allocation in Distribution Network Considering Power Quality Indices and Network Losses. *Moghaddam, M.J.H.*, +, *JSYST Sept. 2020 3530-3538*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. *Islam, M.R.*, +, *JSYST Sept. 2020 3676-3686*

Power system analysis computing

Creating Power System Network Layouts: A Fast Parallel Algorithm. *Olauson, J.*, +, *JSYST Sept. 2020 3687-3694*

+ *Check author entry for coauthors*

Power system CAD
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Power system control
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Flexible Control Structure for Enhancement of Scalability in DC Microgrids. *Ko, B.*, +, *JSYST Sept. 2020 4591-4601*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*
Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. *Zacharia, L.*, +, *JSYST March 2020 422-432*
Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Based on Community Theory. *Pan, H.*, +, *JSYST Sept. 2020 3938-3948*
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Power system dynamics
Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*
Power system economics
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Power system faults
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Power system harmonics
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Power system interconnection
A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems. *Mohammed, O.O.*, +, *JSYST March 2020 1230-1233*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*
Power system management
A Review of the Measures to Enhance Power Systems Resilience. *Mahzarnia, M.*, +, *JSYST Sept. 2020 4059-4070*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
Risk and Resilience Assessment With Component Criticality Ranking of Electric Power Systems Subject to Earthquakes. *Espinoza, S.*, +, *JSYST June 2020 2837-2848*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. *Retiere, N.*, +, *JSYST June 2020 2736-2747*
Power system measurement
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Power system parameter estimation
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Power system planning
A Review of the Measures to Enhance Power Systems Resilience. *Mahzarnia, M.*, +, *JSYST Sept. 2020 4059-4070*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Power system protection
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
Power system reliability
A Review of the Measures to Enhance Power Systems Resilience. *Mahzarnia, M.*, +, *JSYST Sept. 2020 4059-4070*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving. *Ahmad, W.*, +, *JSYST Dec. 2020 4820-4831*
Importance Sampling Using Multilabel Radial Basis Classification for Composite Power System Reliability Evaluation. *Urgun, D.*, +, *JSYST June 2020 2791-2800*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*
PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*

Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*
Toward a More Reliable System for Contingency Selection in Static Security Analysis of Electric Power Systems. *da Silva, J.M.*, +, *JSYST March 2020 1183-1194*

Power system restoration
A Review of the Measures to Enhance Power Systems Resilience. *Mahzarnia, M.*, +, *JSYST Sept. 2020 4059-4070*
Improvement in Recloser–Fuse Coordination Technique Based on Modification Factor. *Makwana, Y.M.*, +, *JSYST June 2020 2770-2779*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*

Power system security
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Detection and Mitigation of Cyber-Attacks on AGC Systems of Low Inertia Power Grid. *Roy, S.D.*, +, *JSYST June 2020 2023-2031*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor. *Mukherjee, R.*, +, *JSYST Sept. 2020 3836-3843*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
Modified Power Reserve Management Solution in Power System Considering Frequency Constraints. *Hosseini, S.A.*, +, *JSYST March 2020 1125-1134*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Toward a More Reliable System for Contingency Selection in Static Security Analysis of Electric Power Systems. *da Silva, J.M.*, +, *JSYST March 2020 1183-1194*

Power system simulation
A New Phase Angle of Superimposed Positive Sequence Current-Based Discrimination Scheme for Prevention of Maloperation of Distance Relay During Severe Stressed Conditions. *Rao, J.T.*, +, *JSYST Sept. 2020 3705-3716*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Critical Nodes Identification of Complex Power Systems Based on Electric Cactus Structure. *Yang, D.*, +, *JSYST Sept. 2020 4477-4488*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Local Measurements-Based Backup Protection for DC Microgrids Using Sequential Analyzing Technique. *Meghwani, A.*, +, *JSYST March 2020 1159-1170*
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*
Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Power system stability
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Cyber-Attack Resilient Design of Wide-Area PSS Considering Practical Communication Constraints. *Prakash, T.*, +, *JSYST June 2020 2012-2022*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Mitigation of Power and Frequency Instability to Improve Load Sharing Among Distributed Inverters in Microgrid Systems. *Firdaus, A.*, +, *JSYST March 2020 1024-1033*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Power system state estimation
Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. *Sun, L.*, +, *JSYST June 2020 2801-2812*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Robust Power System State Estimation Using *t*-Distribution Noise Model. *Chen, T.*, +, *JSYST March 2020 771-781*

Power system transient stability
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*

Power system transients
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Power systems
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*

Power transformers
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*

Power transmission control
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*
Power transmission economics
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Power transmission faults
A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*
A New Phase Angle of Superimposed Positive Sequence Current-Based Discrimination Scheme for Prevention of Maloperation of Distance Relay During Severe Stressed Conditions. *Rao, J.T.*, +, *JSYST Sept. 2020 3705-3716*
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*
Power transmission lines
A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*
A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems. *Mohammed, O.O.*, +, *JSYST March 2020 1230-1233*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Electrical Power System Resilience Assessment: A Comprehensive Approach. *Sabouhi, H.*, +, *JSYST June 2020 2643-2652*
Power transmission planning
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. *Retiere, N.*, +, *JSYST June 2020 2736-2747*
Power transmission protection
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*
Power transmission reliability
A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*
A Graph-Theoretic Approach to Capacity Benefit Margin Calculation for Large Multiarea Power Systems. *Mohammed, O.O.*, +, *JSYST March 2020 1230-1233*
Precoding
Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
D2D-Enabled User Cooperation in Massive MIMO. *Liu, Y.*, +, *JSYST Sept. 2020 4406-4417*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Prediction algorithms
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*
Predictive control
Efficient and Risk-Aware Control of Electricity Distribution Grids. *Liberati, F.*, +, *JSYST Sept. 2020 3586-3597*
Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Predictive models
A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*
High-Fidelity Hexarot Simulation-Based Motion Platform Using Fuzzy Incremental Controller and Model Predictive Control-Based Motion Cueing Algorithm. *Qazani, M.R.C.*, +, *JSYST Dec. 2020 5073-5083*
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*
Pricing
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences. *Li, F.*, +, *JSYST June 2020 2187-2191*
Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. *Saad, M.*, +, *JSYST March 2020 321-332*

Principal component analysis
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Privacy
Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*
Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*
Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*
Private key cryptography
White-Box Implementation of Shamir's Identity-Based Signature Scheme. *Feng, Q.*, +, *JSYST June 2020 1820-1829*
Probabilistic logic
A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*
Probability
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
A Graph-Based Model for Transmission Network Vulnerability Analysis. *Yang, S.*, +, *JSYST March 2020 1447-1456*
A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*
A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines. *Nan, Y.*, +, *JSYST June 2020 1611-1622*
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*
Classification Methods Applied to Credit Scoring With Collateral. *Teles, G.*, +, *JSYST Sept. 2020 4557-4566*
Complex Network-Based Transmission Network Vulnerability Assessment Using Adjacent Graphs. *Zang, T.*, +, *JSYST March 2020 572-581*
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*
Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels. *Lai, X.*, +, *JSYST Sept. 2020 3410-3413*
Duration-Sensitive Task Allocation for Mobile Crowd Sensing. *Lai, C.*, +, *JSYST Sept. 2020 4430-4441*
Efficient Population of the Verification Tradespace Using Bayesian Inference. *Farkhondehmaal, F.*, +, *JSYST Sept. 2020 3225-3232*
Electrical Power System Resilience Assessment: A Comprehensive Approach. *Sabouhi, H.*, +, *JSYST June 2020 2643-2652*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Health Monitoring for Cyber Physical Systems. *Shangguan, L.*, +, *JSYST March 2020 1457-1467*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation. *Li, J.*, +, *JSYST March 2020 433-444*
Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels. *Ji, S.*, +, *JSYST June 2020 2370-2381*
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *Pal, D.*, +, *JSYST March 2020 862-869*
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. *Peyghami, S.*, +, *JSYST June 2020 2861-2872*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Risk and Resilience Assessment With Component Criticality Ranking of Electric Power Systems Subject to Earthquakes. *Espinoza, S.*, +, *JSYST June 2020 2837-2848*
Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience. *Poudel, S.*, +, *JSYST Sept. 2020 3506-3517*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*

Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*
Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
Utility-Driven Data Analytics on Uncertain Data. *Gan, W.*, +, *JSYST Sept. 2020 4442-4453*

Process control
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*
Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*

Process design
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*

Product development
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*
Best Practice Patterns for Variant Modeling of Activities in Model-Based Systems Engineering. *Colletti, R.A.*, +, *JSYST Sept. 2020 4165-4175*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*

Product life cycle management
A Model for the Build-Versus-Buy Decision in Developing Embedded Systems. *Fowler, K.R.*, +, *JSYST March 2020 1317-1324*

Production
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*

Production control
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*

Production engineering computing
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing. *Meng, Z.*, +, *JSYST March 2020 113-123*
Bioanalytical Device Design With Model-Based Systems Engineering Tools. *Evin, E.*, +, *JSYST Sept. 2020 3139-3149*
Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis. *Gourisetti, S.N.G.*, +, *JSYST June 2020 1897-1908*
Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*

Profitability
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Priority-Based Scheduling of Energy Exchanges Between Cooperative Microgrids in Risk-Averse Environment. *Lahon, R.*, +, *JSYST March 2020 1098-1108*

Prognostics and health management
A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*

Program diagnostics
An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*

Program verification
An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*
Efficient Population of the Verification Tradespace Using Bayesian Inference. *Farkhondehmaal, F.*, +, *JSYST Sept. 2020 3225-3232*

Project management
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*

Propulsion
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*

Protocols
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
A Review on Design and Implementation of Software-Defined WLANs. *Qureshi, K.I.*, +, *JSYST June 2020 2601-2614*
Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model. *Wang, K.*, +, *JSYST June 2020 1862-1873*
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks. *Imran, M.*, +, *JSYST June 2020 1933-1944*
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*
Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks. *Wang, T.*, +, *JSYST March 2020 410-421*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Prototypes
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*

Psychology
An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*

Public domain software
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*

Public key cryptography
A Lightweight Certificateless Aggregation Signature Scheme With Provably Security in the Standard Model. *Deng, L.*, +, *JSYST Sept. 2020 4242-4251*
A Lightweight ECC-Based Authentication Scheme for Internet of Things (IoT). *Hammi, B.*, +, *JSYST Sept. 2020 3440-3450*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*

A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. *Jia, X.*, +, *JSYST March 2020 560-571*
A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature. *Kumar, M.*, +, *JSYST June 2020 2032-2041*
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things. *Sowjanya, K.*, +, *JSYST June 2020 2154-2163*
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Anonymous Aggregate Encryption Scheme for Industrial Internet of Things. *Deng, L., JSYST Sept. 2020 3999-4006*
CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs. *Verma, G.K.*, +, *JSYST March 2020 621-632*
Efficient and Provably Secure Certificateless Parallel Key-Insulated Signature Without Pairing for IIoT Environments. *Xiong, H.*, +, *JSYST March 2020 310-320*
Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC. *Rajamanickam, S.*, +, *JSYST June 2020 1972-1983*
PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System. *Verma, G.K.*, +, *JSYST June 2020 1704-1715*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*

Pulse shaping

Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*

Pulse shaping circuits

Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

Python

Creating Power System Network Layouts: A Fast Parallel Algorithm. *Olauson, J.*, +, *JSYST Sept. 2020 3687-3694*

Q

Quadratic programming

Increment-Exchange-Based Decentralized Multiobjective Optimal Power Flow for Active Distribution Grids. *Lu, W.*, +, *JSYST Sept. 2020 3695-3704*
Path-Based Distribution Feeder Reconfiguration for Optimization of Losses and Reliability. *Jose, J.*, +, *JSYST March 2020 1417-1426*

Quality of service

Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Improved Teaching Learning-Based QoS-Aware Services Composition for Internet of Things. *Khanouche, M.E.*, +, *JSYST Sept. 2020 4155-4164*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*
Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition. *Xie, Y.*, +, *JSYST March 2020 1245-1256*
Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*
Performance Analysis of Priority-Based Access Class Barring Scheme for Massive MTC Random Access. *Sim, Y.*, +, *JSYST Dec. 2020 5245-5252*
Procurement-Based User Association for LTE-Advanced HetNets. *Kumar, S.*, +, *JSYST Sept. 2020 3194-3201*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*

Quantization (signal)

Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*

Quantum computing

Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*

Query languages

Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*

Query processing

MQry: Elastic Validity Region for Querying Mobile Point-of-Interests in Infrastructure-Less Networks. *Jung, B.*, +, *JSYST June 2020 1852-1861*

Queueing theory

Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms. *Ye, J.*, +, *JSYST March 2020 1285-1296*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*

R

Radar clutter

Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*

Radar detection

Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*

Radar receivers
Low Probability of Intercept-Based Optimal Power Allocation Scheme for an Integrated Multistatic Radar and Communication System. *Shi, C.*, +, *JSYST March 2020 983-994*
Radar signal processing
Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*
Radar tracking
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Radial basis function networks
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
Radiation protection
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Radio access networks
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Radio direction-finding
WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. *Chen, Z.*, +, *JSYST June 2020 3001-3010*
Radio frequency
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
Radio links
Content Placement in Cache Networks Using Graph Coloring. *Javedankherad, M.*, +, *JSYST Sept. 2020 3129-3138*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Radio networks
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
MQry: Elastic Validity Region for Querying Mobile Point-of-Interests in Infrastructure-Less Networks. *Jung, B.*, +, *JSYST June 2020 1852-1861*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
Radio receivers
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Performance Analysis of Precoded Wireless OFDM With Carrier Frequency Offset. *Kalbat, F.*, +, *JSYST June 2020 2237-2248*
Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*
Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels. *Ji, S.*, +, *JSYST June 2020 2370-2381*
Radio reception
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Radio spectrum management
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System. *Qu, H.*, +, *JSYST Sept. 2020 3161-3172*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing. *Wu, J.*, +, *JSYST June 2020 2532-2543*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*

Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*
Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences. *Li, F.*, +, *JSYST June 2020 2187-2191*
Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*
Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. *Jafari, R.*, +, *JSYST June 2020 2109-2120*

Radio transceivers
Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*

Radio transmitters
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Multiuser Variable Rate GO-OFDMA Architecture and Its FPGA Prototype. *Palisetty, R.*, +, *JSYST June 2020 2455-2463*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*

Radiocommunication
Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach. *Lee, H.*, +, *JSYST June 2020 2589-2592*

Radiofrequency interference
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
A Novel Communication System of High Capacity. *Fattouche, M., JSYST Sept. 2020 4197-4208*
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Covert Communications in D2D Underlaying Cellular Networks With Power Domain NOMA. *Jiang, Y.*, +, *JSYST Sept. 2020 3717-3728*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Joint Position, Decoding Order, and Power Allocation Optimization in UAV-Based NOMA Downlink Communications. *Hu, D.*, +, *JSYST June 2020 2949-2960*
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*
Sum-Throughput Maximization of Secondary Users in an In-Band Full-Duplex Cognitive Wireless Powered Communication Network. *Jafari, R.*, +, *JSYST June 2020 2109-2120*
Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System. *Mukherjee, A.*, +, *JSYST March 2020 353-362*

Radiofrequency power transmission
A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks. *Jin, Y.*, +, *JSYST Sept. 2020 3418-3429*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*

Radiowave propagation
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Railway communication
Location-Aided mMIMO Channel Tracking and Hybrid Beamforming for High-Speed Railway Communications: An Angle-Domain Approach. *Xu, K.*, +, *JSYST March 2020 93-104*
Proactive Forwarding of High Data Rate in Smart Virtualization Networks for High-Speed Trains. *Yaseen, F.A.*, +, *JSYST June 2020 1670-1681*

Random access memory
Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*

Random processes
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*
White-Box Implementation of Shamir's Identity-Based Signature Scheme. *Feng, Q.*, +, *JSYST June 2020 1820-1829*
Random variables
Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving. *Ahmad, W.*, +, *JSYST Dec. 2020 4820-4831*
Rapid prototyping (industrial)
Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393*
Rayleigh channels
An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. *Ghosh, J.*, +, *JSYST March 2020 645-648*
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
Downlink NOMA Networks With Hybrid Long-Packet and Short-Packet Communications in Flat Rayleigh Fading Channels. *Lai, X.*, +, *JSYST Sept. 2020 3410-3413*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Reactive power
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Planning Framework for Optimal Partitioning of Distribution Networks Into Microgrids. *Osama, R.A.*, +, *JSYST March 2020 916-926*
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*
An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*
Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*
Model Predictive Control via PV-Based VAR Scheme for Power Distribution Systems With Regular and Unexpected Abnormal Loads. *Yang, Y.*, +, *JSYST March 2020 689-698*
Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*
Reactive power control
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage. *Doan, S.*, +, *JSYST March 2020 889-899*
Real-time systems
An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*
Receivers
Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*
Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*
Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*
Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*
RF Chain Reduction for MIMO Systems: A Hardware Prototype. *Gong, T.*, +, *JSYST Dec. 2020 5296-5307*
WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*
Receiving antennas
Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*
Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*
Recommender systems
A Temporal Recommendation Mechanism Based on Signed Network of User Interest Changes. *Chen, J.*, +, *JSYST March 2020 244-252*
Reconfigurable architectures
Reconfigurable Architecture of UFMC Transmitter for 5G and Its FPGA Prototype. *Kumar, V.*, +, *JSYST March 2020 28-38*
Recurrent neural networks
A Hierarchical Attention Model for CTR Prediction Based on User Interest. *Wang, Q.*, +, *JSYST Sept. 2020 4015-4024*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Load Disaggregation Using One-Directional Convolutional Stacked Long Short-Term Memory Recurrent Neural Network. *Quek, Y.T.*, +, *JSYST March 2020 1395-1404*
Recursive filters
Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*
Recycling
Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019). *Malisa, R.*, +, *JSYST March 2020 1523-1530*

Redundancy
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*
Regression analysis
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Reinforcement learning
Intelligent Residential Energy Management System Using Deep Reinforcement Learning. *Mathew, A.*, +, *JSYST Dec. 2020 5362-5372*
Relay networks (telecommunication)
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying. *Yarkin, F.*, +, *JSYST March 2020 500-509*
Delay-Optimal Cooperation Policy in a Slotted Aloha Full-Duplex Wireless Network: Static Approach. *Vaezi, K.*, +, *JSYST June 2020 2257-2268*
End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach. *Mohammadi, Z.*, +, *JSYST Sept. 2020 3214-3224*
Joint Beamforming and Relay Selection in AF Two-Way Relay Networks With Energy Transfer. *Tian, M.*, +, *JSYST June 2020 2597-2600*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*
Performance of Wireless Powered DF Relay System Under Nakagami-*m*Fading: Relay Assists Energy-Constrained Source. *Kumar, P.*, +, *JSYST June 2020 2497-2507*
Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation. *Li, J.*, +, *JSYST March 2020 433-444*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*
Relay protection
A New Phase Angle of Superimposed Positive Sequence Current-Based Discrimination Scheme for Prevention of Maloperation of Distance Relay During Severe Stressed Conditions. *Rao, J.T.*, +, *JSYST Sept. 2020 3705-3716*
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Highly Accurate Directional Overcurrent Coordination via Combination of Rosen's Gradient Projection–Complex Method With GA-PSO Algorithm. *Darabi, A.*, +, *JSYST March 2020 1171-1182*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
Relays
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*
Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission. *Lun, Y.*, +, *JSYST Dec. 2020 5014-5024*
Reliability
Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*
Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*
Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*
Reliability theory
Formal Reliability Analysis of an Integrated Power Generation System Using Theorem Proving. *Ahmad, W.*, +, *JSYST Dec. 2020 4820-4831*
Remotely operated vehicles
Mobile Target Tracking Mechanisms Using Unmanned Aerial Vehicle: Investigations and Future Directions. *Hentati, A.I.*, +, *JSYST June 2020 2969-2979*
Renewable energy sources
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*
Power Output Smoothing for Renewable Energy System: Planning, Algorithms, and Analysis. *Chen, X.*, +, *JSYST March 2020 1034-1045*
Robust Optimization-Based Energy Storage Operation for System Congestion Management. *Yan, X.*, +, *JSYST June 2020 2694-2702*
Reservoirs
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*

Resilience
Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*
Resonators
Fast Wireless Power Transfer for Multiple Receivers in Linear Topology. *Lee, K.*, +, *JSYST March 2020 649-652*
Resource allocation
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Crowd-Based Cooperative Task Allocation via Multicriteria Optimization and Decision-Making. *Zhao, L.*, +, *JSYST Sept. 2020 3904-3915*
Duration-Sensitive Task Allocation for Mobile Crowd Sensing. *Lai, C.*, +, *JSYST Sept. 2020 4430-4441*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Edge Computing-Based Mobile Health System: Network Architecture and Resource Allocation. *Lin, D.*, +, *JSYST June 2020 1716-1727*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition. *Xie, Y.*, +, *JSYST March 2020 1245-1256*
Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization. *Gomez, M.M.*, +, *JSYST March 2020 489-499*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*
On the Optimization of User Association and Resource Allocation in HetNets With mm-Wave Base Stations. *Chaieb, C.*, +, *JSYST Sept. 2020 3957-3967*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
Procurement-Based User Association for LTE-Advanced HetNets. *Kumar, S.*, +, *JSYST Sept. 2020 3194-3201*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach. *Lee, H.*, +, *JSYST June 2020 2589-2592*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*
Resource management
A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*
Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*
Energy Efficiency for MISO-OFDMA-Based User-Relay Assisted Cellular Networks. *Basturk, I.*, +, *JSYST Dec. 2020 5274-5283*
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*
Rician channels
Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Risk analysis
A Functional Resonance Analysis Method Driven Resilience Quantification for Socio-Technical Systems. *Bellini, E.*, +, *JSYST March 2020 1234-1244*
Risk Analysis of Cyber-Physical Systems by GTST-MLD. *Di Maio, F.*, +, *JSYST March 2020 1333-1340*
Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience. *Poudel, S.*, +, *JSYST Sept. 2020 3506-3517*
Risk management
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis. *Gourisetti, S.N.G.*, +, *JSYST June 2020 1897-1908*
Quantifying the System-Level Resilience of Thermal Power Generation to Extreme Temperatures and Water Scarcity. *Zhou, Y.*, +, *JSYST March 2020 749-759*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*
Road safety
Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*
Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*
Road traffic control
Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*

Road vehicles
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*
Roads
A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure. *Lucic, M.C.*, +, *JSYST Dec. 2020 4786-4797*
Robot dynamics
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Robot kinematics
Formation Obstacle Avoidance: A Fluid-Based Solution. *Wu, J.*, +, *JSYST March 2020 1479-1490*
Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*
Robot sensing systems
Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*
Robot vision
A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*
A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Multicriteria UAV Base Stations Placement for Disaster Management. *Akram, T.*, +, *JSYST Sept. 2020 3475-3482*
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Robots
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
Robust control
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Multilevel Inverter (MLI)-Based Stand-Alone Photovoltaic System: Modeling, Analysis, and Control. *Kumar, N.*, +, *JSYST March 2020 909-915*
Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*
Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*
Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*
Root loci
A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*
Rotors
Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*
Routing
Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*
Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*
Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *Kumar, S.*, +, *JSYST Dec. 2020 4663-4673*
Routing protocols
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*
Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*
RSSI
MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*

S

Safety
Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*
Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*
Safety systems
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Safety-critical software
Dynamic Fault Tree Generation for Safety-Critical Systems Within a Systems Engineering Approach. *Baklouti, A.*, +, *JSYST March 2020 1512-1522*
Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*
Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *Tao, X.*, +, *JSYST Sept. 2020 3256-3266*
Sampled data systems
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
Satellite communication
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*
Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation. *Li, J.*, +, *JSYST March 2020 433-444*
Random Pattern Multiplexing for Random Access in IoT-Oriented Satellite Networks. *Zhao, B.*, +, *JSYST Sept. 2020 4089-4100*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*
Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences. *Li, F.*, +, *JSYST June 2020 2187-2191*
System-of-Systems Quality Attribute-Based Architectural Alternatives. *Nelson, T.*, +, *JSYST Sept. 2020 3844-3854*
Satellite links
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
Optimizing the Ground Network of Optical MEO Satellite Communication Systems. *Lyras, N.K.*, +, *JSYST Sept. 2020 3968-3976*

Satellite navigation
Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*
Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Satellites
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*
SCADA systems
Determining Impact of Lightning Strike Location on Failures in Transmission Network Elements Using Fuzzy Decision-Making. *Petrovic, I.*, +, *JSYST June 2020 2665-2675*
Risk Analysis of Cyber-Physical Systems by GTST-MLD. *Di Maio, F.*, +, *JSYST March 2020 1333-1340*
Scheduling
A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure. *Lucic, M.C.*, +, *JSYST Dec. 2020 4786-4797*
A WOA-Based Optimization Approach for Task Scheduling in Cloud Computing Systems. *Chen, X.*, +, *JSYST Sept. 2020 3117-3128*
An Actor-Critic Deep Reinforcement Learning Approach for Transmission Scheduling in Cognitive Internet of Things Systems. *Yang, H.*, +, *JSYST March 2020 51-60*
An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*
Fairness Enhancement for Opportunistic Interference Alignment Algorithm With Low Latency Communications. *Lu, H.*, +, *JSYST Dec. 2020 5002-5013*
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*
Integration Design of Sortie Scheduling for Carrier Aircrafts Based on Hybrid Flexible Flowshop. *Liu, J.*, +, *JSYST March 2020 1503-1511*
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Quantum-Inspired Genetic Programming Algorithm for the Crude Oil Scheduling of a Real-World Refinery. *Pereira, C.S.*, +, *JSYST Sept. 2020 3926-3937*
Search problems
A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*
A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*
A WOA-Based Optimization Approach for Task Scheduling in Cloud Computing Systems. *Chen, X.*, +, *JSYST Sept. 2020 3117-3128*
Improved Bacterial Foraging Algorithm for Cell Formation and Product Scheduling Considering Learning and Forgetting Factors in Cellular Manufacturing Systems. *Wang, J.*, +, *JSYST June 2020 3047-3056*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Secondary cells
Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*
Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*
System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*
Security
A Theory for Optimizing Insecure Internetwork Connections. *Das, P.*, +, *JSYST Dec. 2020 4842-4853*
Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
PLC Systems Under the Presence of a Malicious Wireless Communication Device: Physical Layer Security Analyses. *Camponogara, A.*, +, *JSYST Dec. 2020 4901-4910*
Security of data
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*
ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*
Consensus and Clustering of Expressed and Private Opinions in Dynamical Networks Against Attacks. *Shang, Y., JSYST June 2020 2078-2084*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*
Cybersecurity Vulnerability Mitigation Framework Through Empirical Paradigm (CyFEr): Prioritized Gap Analysis. *Gourisetti, S.N.G.*, +, *JSYST June 2020 1897-1908*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Disclose or Exploit? A Game-Theoretic Approach to Strategic Decision Making in Cyber-Warfare. *Chen, H.*, +, *JSYST Sept. 2020 3779-3790*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Risk Analysis of Cyber-Physical Systems by GTST-MLD. *Di Maio, F.*, +, *JSYST March 2020 1333-1340*
Seismology
An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Seismometers
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
Semantic Web
Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*
Sensitivity analysis
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Optimal Coordinated Expansion Planning of Transmission and Electrical Energy Storage Systems Under Physical Intentional Attacks. *Nemati, H.*, +, *JSYST March 2020 793-802*
Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*
Sensor fusion
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*

Fault-Tolerant GNSS/SINS/DVL/CNS Integrated Navigation and Positioning Mechanism Based on Adaptive Information Sharing Factors. *Xiong, H.*, +, *JSYST Sept. 2020 3744-3754*
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*
SMS–A Security Management System for Steam Turbines Using a Multisensor Array. *Kordestani, M.*, +, *JSYST Sept. 2020 3813-3824*
System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*

Sensor placement
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC. *Bangash, Y.A.*, +, *JSYST Sept. 2020 4489-4499*

Sensors
Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*
Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework. *Wu, J.*, +, *JSYST Dec. 2020 5210-5220*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*
Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*
Information-Based Hierarchical Planning for a Mobile Sensing Network in Environmental Mapping. *Li, T.*, +, *JSYST June 2020 1692-1703*
Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*
Microscale Particulate Matter Monitoring With Reliable Event Transport in Urban Environments. *Yang, T.*, +, *JSYST June 2020 3057-3060*
On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*

Sentiment analysis
New Clustering Algorithms for Twitter Sentiment Analysis. *Rehioui, H.*, +, *JSYST March 2020 530-537*

Servers
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Microservice-Based Architecture for an Energy Management System. *Lyu, Z.*, +, *JSYST Dec. 2020 5061-5072*

Service-oriented architecture
Services Computing Systems Engineering Framework: A Proposition and Evaluation Through SOA Principles and Analysis Model. *Kurniawan, N.B.*, +, *JSYST Sept. 2020 3105-3116*

Set theory
Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*
Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering. *Chiu, W.*, +, *JSYST June 2020 1580-1591*

Short-circuit currents
PMUs Enabled Tellegen's Theorem-Based Fault Identification Method for Unbalanced Active Distribution Network Using RTDS. *Bansal, Y.*, +, *JSYST Sept. 2020 4567-4578*

Signal classification
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*

Signal detection
A Contract Theory Approach-Based Scheme to Encourage Secondary Users for Cooperative Sensing in Cognitive Radio Networks. *Gupta, N.*, +, *JSYST June 2020 2400-2410*
A Robust Hyperbolic Tangent-Based Energy Detector With Gaussian and Non-Gaussian Noise Environments in Cognitive Radio System. *Qu, H.*, +, *JSYST Sept. 2020 3161-3172*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
Cognitive Radio Spectrum Sensing Under Joint TX/RX I/Q Imbalance and Uncalibrated Receiver. *Jalali, F.*, +, *JSYST March 2020 105-112*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing. *Wu, J.*, +, *JSYST June 2020 2532-2543*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*
Spectrum-Occupancy Aware Cooperative Spectrum Sensing Using Adaptive Detection. *Al-Jarrah, M.A.*, +, *JSYST June 2020 2225-2236*

Signal processing
Cost-Effective Migration Toward Virtualized C-RAN With Scalable Fronthaul Design. *Masoudi, M.*, +, *JSYST Dec. 2020 5100-5110*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
PMU-Assisted Zone-3 Protection Scheme for PV Integrated Power Systems Immune to Interharmonics. *Prakash, T.*, +, *JSYST Sept. 2020 3267-3276*

Signal reconstruction
Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*

Signal sampling
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*

Signal to noise ratio
A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*

Silicon
Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT. *Shivhare, A.*, +, *JSYST Dec. 2020 4854-4863*

Silicon carbide
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

Singular value decomposition
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*

SLAM (robots)
A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. *Yue, Y.*, +, *JSYST March 2020 1341-1352*
RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. *Chen, L.*, +, *JSYST Sept. 2020 3301-3312*
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*

Sliding mode control
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*
Smart cards
A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. *Li, X.*, +, *JSYST March 2020 39-50*
Smart grids
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*
Smart meters
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Smart phones
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*
VTracer: When Online Vehicle Trajectory Compression Meets Mobile Edge Computing. *Chen, C.*, +, *JSYST June 2020 1635-1646*
Smart power grids
A Dynamic Membership Data Aggregation (DMDA) Protocol for Smart Grid. *Song, J.*, +, *JSYST March 2020 900-908*
A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem. *Belhaiza, S.*, +, *JSYST March 2020 1147-1158*
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
An Efficient Privacy-Friendly Hop-by-Hop Data Aggregation Scheme for Smart Grids. *Gope, P.*, +, *JSYST March 2020 343-352*
An Elliptic Curve-Based Scalable Data Aggregation Scheme for Smart Grid. *Chen, Y.*, +, *JSYST June 2020 2066-2077*
Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. *Mahmud, K.*, +, *JSYST Sept. 2020 3641-3652*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Detection and Location of Bias Load Injection Attack in Smart Grid via Robust Adaptive Observer. *Wang, X.*, +, *JSYST Sept. 2020 4454-4465*
Detection of False Data Injection Attacks in Smart Grids Based on Graph Signal Processing. *Drayer, E.*, +, *JSYST June 2020 1886-1896*
Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *Goudarzi, P.*, +, *JSYST March 2020 927-938*
Optimal Planning and Operational Strategy of a Residential Microgrid With Demand Side Management. *Bhamidi, L.*, +, *JSYST June 2020 2624-2632*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. *Huang, K.*, +, *JSYST Sept. 2020 4329-4339*
Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*
Social aspects of automation
A Functional Resonance Analysis Method Driven Resilience Quantification for Socio-Technical Systems. *Bellini, E.*, +, *JSYST March 2020 1234-1244*
Social networking (online)
Cyber-Social Systems: Modeling, Inference, and Optimal Design. *Doostmohammadian, M.*, +, *JSYST March 2020 73-83*
New Clustering Algorithms for Twitter Sentiment Analysis. *Rehioui, H.*, +, *JSYST March 2020 530-537*
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Simultaneous Benefit Maximization of Conflicting Opinions: Modeling and Analysis. *Yang, L.*, +, *JSYST June 2020 1623-1634*
Venue2Vec: An Efficient Embedding Model for Fine-Grained User Location Prediction in Geo-Social Networks. *Xu, S.*, +, *JSYST June 2020 1740-1751*
Social sciences
Opinion Maximization Through Unknown Influence Power in Social Networks Under Weighted Voter Model. *He, Q.*, +, *JSYST June 2020 1874-1885*
Sociology
Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*
Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*
Software
A Model-Based Systems Engineering Approach for the Efficient Specification of Test Rig Architectures for Flight Control Computers. *Liscouet-Hanke, S.*, +, *JSYST Dec. 2020 5441-5450*
Data-Driven Vulnerability Exploration for Design Phase System Analysis. *Bakirtzis, G.*, +, *JSYST Dec. 2020 4864-4873*
Ephemeral-Cyber-Physical System: A Cloud-Like CPS Using Shared Devices in Open IoT. *Noguchi, H.*, +, *JSYST Dec. 2020 5176-5186*
Multigranularity Space Management Scheme for Accelerating the Write Performance of In-Memory File Systems. *Wu, T.*, +, *JSYST Dec. 2020 5429-5440*
Use of Patterns for Know-How Reuse in a Model-Based Systems Engineering Framework. *Wu, Q.*, +, *JSYST Dec. 2020 4765-4776*
Software architecture
An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*
System-of-Systems Quality Attribute-Based Architectural Alternatives. *Nelson, T.*, +, *JSYST Sept. 2020 3844-3854*
Software defined networking
A Review on Design and Implementation of Software-Defined WLANs. *Qureshi, K.I.*, +, *JSYST June 2020 2601-2614*
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks. *Imran, M.*, +, *JSYST June 2020 1933-1944*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*
Proactive Forwarding of High Data Rate in Smart Virtualization Networks for High-Speed Trains. *Yaseen, F.A.*, +, *JSYST June 2020 1670-1681*
SDNMM—A Generic SDN-Based Modular Management System for Wireless Sensor Networks. *Ndiaye, M.*, +, *JSYST June 2020 2347-2357*
Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach. *Zhuang, Z.*, +, *JSYST June 2020 1658-1669*
Software quality
System-of-Systems Quality Attribute-Based Architectural Alternatives. *Nelson, T.*, +, *JSYST Sept. 2020 3844-3854*
Software radio
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*

Integrated Communication and Localization System With OFDM-Chirp Waveform. *Jia, W.*, +, *JSYST June 2020 2464-2472*

Solar cell arrays

An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*

Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*

PV Distributed-MPP Tracking: Total-Cross-Tied Configuration of String-Integrated-Converters to Extract the Maximum Power Under Various PSCs. *Pendem, S.R.*, +, *JSYST March 2020 1046-1057*

Solar cells

System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Solar power

Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*

Solar power generation

Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*

Solar power stations

Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*

Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*

Simplified Modeling and HIL Validation of Solar PVs and Storage-Based Islanded Microgrid With Generation Uncertainties. *Sen, S.*, +, *JSYST June 2020 2653-2664*

Solar powered vehicles

Optimal Scheduling of EV Charging at a Solar Power-Based Charging Station. *Kabir, M.E.*, +, *JSYST Sept. 2020 4221-4231*

System Design and Realization of a Solar-Powered Electric Vehicle Charging Station. *Shariff, S.M.*, +, *JSYST June 2020 2748-2758*

Sonar imaging

RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. *Chen, L.*, +, *JSYST Sept. 2020 3301-3312*

Source coding

End-to-End Distortion Analysis of Nonorthogonal Layered Coding Over Relay-Assisted Networks. *Padidar, P.*, +, *JSYST Sept. 2020 4466-4476*

Space division multiplexing

User-Centric MIMO Techniques for Indoor Visible Light Communication Systems. *Chen, C.*, +, *JSYST Sept. 2020 3202-3213*

Space-time codes

Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*

Spatiotemporal phenomena

Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*

Spectral analysis

An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Spectrogram

WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*

Spread spectrum communication

Adaptive Narrow-Band Interference Suppression and Performance Evaluation Based on Code-Aided in GNSS Inter-Satellite Links. *Wang, H.*, +, *JSYST March 2020 538-547*

SQL

Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*

Stability

Cyber-Attacks in a Looped Energy-Water Nexus: An Inoculated Sub-Observer-Based Approach. *Khalid, H.M.*, +, *JSYST June 2020 2054-2065*

Flexible Control Structure for Enhancement of Scalability in DC Microgrids. *Ko, B.*, +, *JSYST Sept. 2020 4591-4601*

Fuzzy-Observer-Based Predictive Stabilization of DC Microgrids With Power Buffers Through an Imperfect 5G Network. *Vafamand, N.*, +, *JSYST Sept. 2020 4025-4035*

Globally Stable Formation Control of Nonholonomic Multiagent Systems With Bearing-Only Measurement. *Luo, X.*, +, *JSYST June 2020 2901-2912*

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*

Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*

Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*

Voltage Stability Constrained OPF in Multi-Micro-Grid Considering Demand Response Programs. *Nojavan, M.*, +, *JSYST Dec. 2020 5221-5228*

State estimation

Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*

Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*

State feedback

Optimal Connected Cruise Control With Arbitrary Communication Delays. *Wang, Z.*, +, *JSYST June 2020 2913-2924*

Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Statistical analysis

A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*

Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*

Classification Methods Applied to Credit Scoring With Collateral. *Teles, G.*, +, *JSYST Sept. 2020 4557-4566*

Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*

Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*

Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*

Statistical distributions

Distributed Elections Using Site-Push Majority Winner Monitoring. *Chaturvedi, K.*, +, *JSYST June 2020 1682-1691*

Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*

Statistics

Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*

Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. *Wang, W.*, +, *JSYST Dec. 2020 5475-5485*

Stator windings

An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System. *Chatterjee, A.*, +, *JSYST Dec. 2020 4874-4882*

Steady-state

Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*

Steam turbines

SMS–A Security Management System for Steam Turbines Using a Multisensor Array. *Kordestani, M.*, +, *JSYST Sept. 2020 3813-3824*

Stochastic processes
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
A Stochastic Model of Cascading Failure Dynamics in Cyber-Physical Power Systems. *Gao, X.*, +, *JSYST Sept. 2020 4626-4637*
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
Modeling and Decision-Making Methods for a Class of Cyber–Physical Systems Based on Modified Hybrid Stochastic Timed Petri Net. *Cao, R.*, +, *JSYST Dec. 2020 4684-4693*
Outage and ASE Analyses for Power Controlled D2D Communication. *Pawar, P.*, +, *JSYST June 2020 2269-2280*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*
Resolution Limit of Positioning Error for Range-Free Localization Schemes. *Gui, L.*, +, *JSYST June 2020 2980-2989*
Risk and Resilience Assessment With Component Criticality Ranking of Electric Power Systems Subject to Earthquakes. *Espinoza, S.*, +, *JSYST June 2020 2837-2848*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*
Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics. *Chen, Y.*, +, *JSYST June 2020 2202-2213*
Stochastic programming
An Optimal Multivariable Constrained Nonlinear (MVCNL) Stochastic Microgrid Planning and Operation Problem With Renewable Penetration. *Kumar, M.*, +, *JSYST Sept. 2020 4143-4154*
Stochastic systems
Sampled-Data Decentralized Output Feedback Control for a Class of Switched Large-Scale Stochastic Nonlinear Systems. *Li, S.*, +, *JSYST June 2020 1602-1610*
Stock markets
A Multicriteria Trading System Based on Singular Spectrum Analysis Trading Rules. *Leles, M.C.R.*, +, *JSYST March 2020 1468-1478*
Storage area networks
Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC. *Bangash, Y.A.*, +, *JSYST Sept. 2020 4489-4499*
Storage management
A Public Auditing Protocol for Cloud Storage System With Intrusion-Resilience. *Ding, R.*, +, *JSYST March 2020 633-644*
Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC. *Bangash, Y.A.*, +, *JSYST Sept. 2020 4489-4499*
Remote Data Checking With a Designated Verifier in Cloud Storage. *Yan, H.*, +, *JSYST June 2020 1788-1797*
Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems. *Xia, J.*, +, *JSYST Sept. 2020 4296-4307*
Storms
Metanetwork Framework for Performance Analysis of Disaster Management System-of-Systems. *Fan, C.*, +, *JSYST March 2020 1265-1276*
Street lighting
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Structural engineering computing
A Pipeline Leak Classification and Location Estimation System With Convolutional Neural Networks. *Cai, Y.*, +, *JSYST Sept. 2020 3072-3081*
FPGA-Based Design Optimization in Autonomous Robot Systems for Inspection of Civil Infrastructure. *Lins, R.G.*, +, *JSYST June 2020 2961-2964*
Substation automation
A Novel SCL Configuration Method for Modeling Microgrids With IEC 61850. *Aftab, M.A.*, +, *JSYST June 2020 2676-2683*
Substations
A Multidimensional Holistic Framework for the Security of Distributed Energy and Control Systems. *Saleem, D.*, +, *JSYST March 2020 17-27*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
Moth Search Optimization for Optimal DERs Integration in Conjunction to OLTC Tap Operations in Distribution Systems. *Singh, P.*, +, *JSYST March 2020 880-888*
Supercapacitors
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*
Superconducting particle detectors
A Safety System for Human Radiation Protection and Guidance in Extreme Environmental Conditions. *Adamidi, E.S.*, +, *JSYST March 2020 1384-1394*
Support vector machines
A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. *Liu, T.*, +, *JSYST June 2020 1830-1839*
An Intelligent Detection of High-Impedance Faults for Distribution Lines Integrated With Distributed Generators. *Chaitanya, B.K.*, +, *JSYST March 2020 870-879*
Classification Methods Applied to Credit Scoring With Collateral. *Teles, G.*, +, *JSYST Sept. 2020 4557-4566*
Detection and Experimental Validation of High Impedance Arc Fault in Distribution System Using Empirical Mode Decomposition. *Lala, H.*, +, *JSYST Sept. 2020 3494-3505*
E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*
Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. *Li, G.*, +, *JSYST Dec. 2020 4967-4977*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Resist Interest Flooding Attacks via Entropy–SVM and Jensen–Shannon Divergence in Information-Centric Networking. *Zhi, T.*, +, *JSYST June 2020 1776-1787*
Safety Cruise Control of Connected Vehicles Using Radar and Vehicle-to-Vehicle Communication. *Ma, Z.*, +, *JSYST Sept. 2020 4602-4613*
SMS–A Security Management System for Steam Turbines Using a Multisensor Array. *Kordestani, M.*, +, *JSYST Sept. 2020 3813-3824*
Surface tension
System Dynamic-Based Oil Weathering Processes: Simulation and Analysis. *Kasimu, A.*, +, *JSYST March 2020 1375-1383*
Surface treatment
SimProxy Decision Support System: A Neural Network Proxy Applied to Reservoir and Surface Integrated Optimization. *Kohler, M.*, +, *JSYST Dec. 2020 5111-5120*
Surgery
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*
Surveillance
Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework. *Wu, J.*, +, *JSYST Dec. 2020 5210-5220*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. *Savkin, A.V.*, +, *JSYST Dec. 2020 4746-4749*
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*

Sustainable development
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*
Switches
Allocation of Renewables, Switches, and Relays Considering Relays Actual Operation Time. *Fatemi, S.S.*, +, *JSYST March 2020 950-959*
Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*
Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*
PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*
Protection of Converter-Interfaced Microgrids Using Modified Short-Time Correlation Transform. *Allahdadi, K.*, +, *JSYST Dec. 2020 5172-5175*
Switching systems (control)
Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*
Synchronization
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
A System Simulation Framework for Modeling Space Modulation Techniques. *Hiari, O.*, +, *JSYST March 2020 1435-1446*
Comparative Analysis of Communication Assisted Grid Synchronization Methods in Microgrids. *S., N.*, +, *JSYST March 2020 1007-1014*
Cooperative Sensing Scheme for Acquisition of Rotational Synchronization of Radar. *Lee, J.*, +, *JSYST June 2020 3061-3064*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*
Measurement Errors and Delays on Wide-Area Control Based on IEEE Std C37.118.1-2011: Impact and Compensation. *Zacharia, L.*, +, *JSYST March 2020 422-432*
Robust OFDM-Based Synchronization Against Very High Fractional CFO and Time-Varying Fading. *Chang, K.*, +, *JSYST Sept. 2020 4047-4058*
Synchronous generators
Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *Sharma, D.*, +, *JSYST March 2020 782-792*
Improving Power Systems Transient Stability by Coordinated Control of Energy Storage Systems and Synchronous Generators in Presence of Measurement Noise. *Rostami, M.*, +, *JSYST March 2020 1088-1097*
Islanding Detection of Distributed Generation Based on Parallel Inductive Impedance Switching. *Rostami, A.*, +, *JSYST March 2020 813-823*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*
System analysis and design
Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*
System buses
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*
System theory
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*
System-on-chip
Heterogeneous System-on-Chip-Based Lattice-Boltzmann Visual Simulation System. *Zhai, X.*, +, *JSYST June 2020 1592-1601*
Systems engineering
A Method to Establish a Trade-Space of System Requirements and Life Cycle Cost. *Abdul Rahim, N.B.*, +, *JSYST March 2020 1257-1264*
Best Practice Patterns for Variant Modeling of Activities in Model-Based Systems Engineering. *Colletti, R.A.*, +, *JSYST Sept. 2020 4165-4175*
Bioanalytical Device Design With Model-Based Systems Engineering Tools. *Evin, E.*, +, *JSYST Sept. 2020 3139-3149*
Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. *Lu, J.*, +, *JSYST March 2020 1297-1308*
Dynamic Fault Tree Generation for Safety-Critical Systems Within a Systems Engineering Approach. *Baklouti, A.*, +, *JSYST March 2020 1512-1522*
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Model-Based Design of Complex Aeronautical Systems Through Digital Twin and Thread Concepts. *Bachelor, G.*, +, *JSYST June 2020 1568-1579*
Ranking Critical Activities in Complex System Development Projects. *Srinivasan, S.M.*, +, *JSYST March 2020 1353-1364*
Services Computing Systems Engineering Framework: A Proposition and Evaluation Through SOA Principles and Analysis Model. *Kurniawan, N.B.*, +, *JSYST Sept. 2020 3105-3116*
Simulating Systems-of-Systems With Agent-Based Modeling: A Systematic Literature Review. *Silva, R.d.A.*, +, *JSYST Sept. 2020 3609-3617*
System Definition, System Worldviews, and Systemness Characteristics. *Dori, D.*, +, *JSYST June 2020 1538-1548*
Toward a Theory of Systems Engineering Processes: A Principal–Agent Model of a One-Shot, Shallow Process. *Safarkhani, S.*, +, *JSYST Sept. 2020 3277-3288*
Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering. *Chiu, W.*, +, *JSYST June 2020 1580-1591*
Systems of systems
Research on SoS-GERT Network Model for Equipment System of Systems Contribution Evaluation Based on Joint Operation. *Wang, Z.*, +, *JSYST Sept. 2020 4188-4196*

T

Taguchi methods
Fault Detection, Classification, and Location by Static Switch in Microgrids Using Wavelet Transform and Taguchi-Based Artificial Neural Network. *Hong, Y.*, +, *JSYST June 2020 2725-2735*
Multiobjective Multiscenario Under-Frequency Load Shedding in a Standalone Power System. *Hong, Y.*, +, *JSYST June 2020 2759-2769*
Tanks (containers)
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Target tracking
A Robust Visual Person-Following Approach for Mobile Robots in Disturbing Environments. *Pang, L.*, +, *JSYST June 2020 2965-2968*
Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*
Distributed Estimation in Multimissile Cyber-Physical Systems With Time Delay. *Abdelmawgoud, A.*, +, *JSYST March 2020 1491-1502*
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*
Joint Subarray Selection and Power Allocation for Cognitive Target Tracking in Large-Scale MIMO Radar Networks. *Zhang, H.*, +, *JSYST June 2020 2569-2580*
Mobile Target Tracking Mechanisms Using Unmanned Aerial Vehicle: Investigations and Future Directions. *Hentati, A.I.*, +, *JSYST June 2020 2969-2979*
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Tariffs
Model Predictive for Reactive Power Scheduling Control Strategy for PV–Battery Hybrid System in Competitive Energy Market. *Lupangu, C.*, +, *JSYST Sept. 2020 4071-4078*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*

Task analysis
Dynamic User Association for Resilient Backhauling in Satellite–Terrestrial Integrated Networks. *Dai, C.*, +, *JSYST Dec. 2020 5025-5036*
Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. *Wang, J.*, +, *JSYST Dec. 2020 5451-5462*
Joint Task Offloading, CNN Layer Scheduling, and Resource Allocation in Cooperative Computing System. *Chai, R.*, +, *JSYST Dec. 2020 5350-5361*
Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission. *Lun, Y.*, +, *JSYST Dec. 2020 5014-5024*
Teaching
Experiential Systems Engineering Education Concept Using Stratospheric Balloon Missions. *Golkar, A., JSYST June 2020 1558-1567*
Telecommunication computing
Coordinated Hybrid Precoding Design in Millimeter Wave Fog-RAN. *Hao, W.*, +, *JSYST March 2020 673-676*
Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation. *Agrawal, H.*, +, *JSYST June 2020 2485-2496*
Deep Learning-Based MIMO-NOMA With Imperfect SIC Decoding. *Kang, J.*, +, *JSYST Sept. 2020 3414-3417*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Distributed Learning and Coordination in Cognitive Infrastructureless Networks of Unknown Size. *Kumar, R.*, +, *JSYST June 2020 2085-2096*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Resource Allocation in Wireless Networks With Deep Reinforcement Learning: A Circumstance-Independent Approach. *Lee, H.*, +, *JSYST June 2020 2589-2592*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Telecommunication congestion control
Adaptive and Stable Delay Control for Combating Bufferbloat: Theory and Algorithms. *Ye, J.*, +, *JSYST March 2020 1285-1296*
Network Slice Admission Model: Tradeoff Between Monetization and Rejections. *Challa, R.*, +, *JSYST March 2020 657-660*
Traffic Control for RDMA-Enabled Data Center Networks: A Survey. *Guo, Z.*, +, *JSYST March 2020 677-688*
Telecommunication control
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Telecommunication network management
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
ORCID: Opportunistic Reconnectivity for Network Management in the Presence of Dumb Nodes in Wireless Sensor Networks. *Roy, A.*, +, *JSYST March 2020 9-16*
Telecommunication network reliability
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
A Lightweight Mutual Authentication for Smart Grid Neighborhood Area Network Communications Based on Physically Unclonable Function. *Kaveh, M.*, +, *JSYST Sept. 2020 4535-4544*
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
End-to-End Performance Analysis With Decode-and-Forward Relays in Multihop Wireless Systems Overα– η– μ Fading Channels. *Salameh, H.A.B.*, +, *JSYST March 2020 84-92*
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*
MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*
Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation. *Li, J.*, +, *JSYST March 2020 433-444*
Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks. *Xiang, S.*, +, *JSYST June 2020 1752-1763*
Residual Energy Maximization in Cognitive Radio Networks With Q-Routing. *Paul, A.*, +, *JSYST Sept. 2020 3791-3800*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*
Telecommunication network routing
A Priority-Based Multiobjective Design for Routing, Spectrum, and Network Coding Assignment Problem in Network-Coding-Enabled Elastic Optical Networks. *Hai, D.T.*, +, *JSYST June 2020 2358-2369*
Analyzing NDN NACK on Interest Flooding Attack via SIS Epidemic Model. *Wang, K.*, +, *JSYST June 2020 1862-1873*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Toward Greater Intelligence in Route Planning: A Graph-Aware Deep Learning Approach. *Zhuang, Z.*, +, *JSYST June 2020 1658-1669*
Telecommunication network topology
A Priority-Based Multiobjective Design for Routing, Spectrum, and Network Coding Assignment Problem in Network-Coding-Enabled Elastic Optical Networks. *Hai, D.T.*, +, *JSYST June 2020 2358-2369*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
Resource Optimization Protocol Based on Multicommunity Model for Intermittently Connected Mobile Networks. *Wang, T.*, +, *JSYST March 2020 410-421*
Topology-Aware Data Placement Strategy for Fault-Tolerant Storage Systems. *Xia, J.*, +, *JSYST Sept. 2020 4296-4307*

Telecommunication networks
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
Telecommunication power management
A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks. *Jin, Y.*, +, *JSYST Sept. 2020 3418-3429*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. *Spachos, P.*, +, *JSYST Sept. 2020 3483-3493*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Energy Efficiency Evaluation for Downlink Full-Duplex Nonlinear MU-MIMO-OFDM System With Self-Energy Recycling. *Shaikh, M.H.N.*, +, *JSYST Sept. 2020 3313-3324*
Energy Efficiency Versus Reliability Tradeoff Improvement in Low-Power Wireless Communications. *Zogovic, N., JSYST Sept. 2020 3173-3184*
Energy-Efficient Adaptive Sectorization for 5G Green Wireless Communication Systems. *Jain, P.*, +, *JSYST June 2020 2382-2391*
Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*
Novel Energy-Harvesting AF Relaying Schemes With Channel Estimation Errors. *Zhou, Y.*, +, *JSYST March 2020 333-342*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
Online Power Management for Latency-Sensitive Bluetooth Low-Energy Beacons. *Chen, D.*, +, *JSYST June 2020 2411-2420*
Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Throughput Maximization for Cognitive Radio With Wirelessly Powered Primary Users. *Sun, M.*, +, *JSYST June 2020 2432-2442*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
Telecommunication power supplies
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Telecommunication scheduling
A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks. *Jin, Y.*, +, *JSYST Sept. 2020 3418-3429*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
EHLinQ: Distributed Scheduler for D2D Communication With RF Energy Harvesting. *Lee, H.*, +, *JSYST June 2020 2281-2292*
Outage and Average Rate Performances of Full-Duplex Multiuser AF Relay Systems With Time-Selective Fading. *Raut, P.*, +, *JSYST Sept. 2020 3390-3398*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Uplink Low-Power Scheduling for Delay-Bounded Industrial Wireless Networks Based on Imperfect Power-Domain NOMA. *Xu, C.*, +, *JSYST June 2020 2443-2454*
Telecommunication security
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
A Lightweight Privacy-Preserving Authentication Protocol for VANETs. *Li, X.*, +, *JSYST Sept. 2020 3547-3557*
A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*
A Robust Synchronization-Based Chaotic Secure Communication Scheme With Double-Layered and Multiple Hybrid Networks. *Zhou, L.*, +, *JSYST June 2020 2508-2519*
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Artificial Noisy MIMO Systems Under Correlated Scattering Rayleigh Fading—A Physical Layer Security Approach. *Liu, Y.*, +, *JSYST June 2020 2121-2132*
Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. *Chen, P.*, +, *JSYST Sept. 2020 3801-3812*
Bayesian-Inference-Based Sliding Window Trust Model Against Probabilistic SSDF Attack in Cognitive Radio Networks. *Fu, Y.*, +, *JSYST June 2020 1764-1775*
E-WACGAN: Enhanced Generative Model of Signaling Data Based on WGAN-GP and ACGAN. *Jin, Q.*, +, *JSYST Sept. 2020 3289-3300*
Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*
On Secure Mixed RF-FSO Decode-and-Forward Relaying Systems With Energy Harvesting. *Saber, M.J.*, +, *JSYST Sept. 2020 4402-4405*
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Physical Layer Security Enhancement for Satellite Communication Among Similar Channels: Relay Selection and Power Allocation. *Li, J.*, +, *JSYST March 2020 433-444*
Physical-Layer Security for Frequency Diverse Array Communication System Over Nakagami-*m* Fading Channels. *Ji, S.*, +, *JSYST June 2020 2370-2381*
Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation. *Khanna, K.*, +, *JSYST June 2020 1945-1952*
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*
Robust Secure Beamforming and Power Splitting for Millimeter-Wave Cognitive Satellite–Terrestrial Networks With SWIPT. *Yan, Y.*, +, *JSYST Sept. 2020 3233-3244*
Secure Communications Over Cell-Free Massive MIMO Networks With Hardware Impairments. *Zhang, X.*, +, *JSYST June 2020 1909-1920*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*
Security--Reliability Tradeoff for Untrusted and Selfish Relay-Assisted D2D Communications in Heterogeneous Cellular Networks for IoT. *Zhang, C.*, +, *JSYST June 2020 2192-2201*

Telecommunication switching
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
Location-Aware, Context-Driven QoS for IoT Applications. *Ahmad, E.*, +, *JSYST March 2020 232-243*

Telecommunication traffic
A Smart Optimization of Fault Diagnosis in Electrical Grid Using Distributed Software-Defined IoT System. *Al Mhdawi, A.K.*, +, *JSYST June 2020 2780-2790*
Adaptive Traffic Management and Energy Cooperation in Renewable-Energy-Powered Cellular Networks. *Lee, H.*, +, *JSYST March 2020 132-143*
AMOPE: Performance Analysis of OpenFlow Systems in Software-Defined Networks. *Mondal, A.*, +, *JSYST March 2020 124-131*
DAISY: A Detection and Mitigation System Against Denial-of-Service Attacks in Software-Defined Networks. *Imran, M.*, +, *JSYST June 2020 1933-1944*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*
Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network. *Zhang, C.*, +, *JSYST June 2020 1840-1851*
Hierarchical Edge-Cloud SDN Controller System With Optimal Adaptive Resource Allocation for Load-Balancing. *Lin, F.P.*, +, *JSYST March 2020 265-276*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
MQry: Elastic Validity Region for Querying Mobile Point-of-Interests in Infrastructure-Less Networks. *Jung, B.*, +, *JSYST June 2020 1852-1861*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
The Allocation and Reuse Scheme of Physical Cell Identifications Based on Maximum Degree First Coloring Algorithm. *Liu, M.*, +, *JSYST March 2020 582-591*
Traffic-Aware Multiple Association in Ultradense Networks: A State-Based Potential Game. *Wang, X.*, +, *JSYST Sept. 2020 4356-4367*

Temperature measurement
An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. *Priyadarshi, N.*, +, *JSYST March 2020 1218-1229*

Text analysis
A PMU-Based Data-Driven Approach for Classifying Power System Events Considering Cyberattacks. *Ma, R.*, +, *JSYST Sept. 2020 3558-3569*

Text mining
Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*

Thermal energy storage
Probabilistic Optimal Dynamic Planning of Onsite Solar Generation for Residential Energy Hubs. *Senemar, S.*, +, *JSYST March 2020 832-841*

Thermal loading
Optimal Heterogeneous Energy Storage Management for Multienergy Cruise Ships. *Fang, S.*, +, *JSYST Dec. 2020 4754-4764*

Thermal power stations
Quantifying the System-Level Resilience of Thermal Power Generation to Extreme Temperatures and Water Scarcity. *Zhou, Y.*, +, *JSYST March 2020 749-759*

Throughput
Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*
Iterative Sub-Band and Power Allocation in Downlink Multiband NOMA. *Goswami, D.*, +, *JSYST Dec. 2020 5199-5209*
Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*
Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*

Time complexity
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*

Time factors
A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*

Time series
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*

Time-domain analysis
A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*

Time-frequency analysis
A Flexible Multicarrier Scheme Based on the Discrete Orthogonal Stockwell Transform. *Colen, G.R.*, +, *JSYST Dec. 2020 5284-5295*
An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. *Liu, D.*, +, *JSYST June 2020 2323-2334*

Time-of-arrival estimation
Echo State Network and Echo State Gaussian Process for Non-Line-of-Sight Target Tracking. *Yang, X.*, +, *JSYST Sept. 2020 3885-3892*
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*

Time-varying channels
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*

Time-varying systems
Energy-Efficient Joint Scheduling and Resource Management for UAV-Enabled Multicell Networks. *Yang, H.*, +, *JSYST March 2020 363-374*

Tolerance analysis
Toward a Robust Design of an Aileron Electromechanical Actuator: Sensitivity Analysis and Parametric Tolerancing Using a Variational Approach. *Siala, H.*, +, *JSYST Sept. 2020 3977-3986*

Tools
An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*
Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*
PN Inference Based Autonomous Sequential Restoration of Distribution System Under Natural Disaster. *Sandhya, K.*, +, *JSYST Dec. 2020 5160-5171*

Topology
Containment Control of Linear Multiagent Systems With Stochastic Disturbances via Event-Triggered Strategies. *Zou, W.*, +, *JSYST Dec. 2020 4810-4819*
Fast Wireless Power Transfer for Multiple Receivers in Linear Topology. *Lee, K.*, +, *JSYST March 2020 649-652*

Flow Setup Aware Controller Placement in Distributed Software-Defined Networking. *Correia, N.*, +, *JSYST Dec. 2020 5096-5099*

Town and country planning

Intelligent Energy-Saving Supervision System of Urban Buildings Based on the Internet of Things: A Case Study. *Xing, L.*, +, *JSYST Sept. 2020 4252-4261*

Traffic engineering computing

Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*

Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. *Mackey, A.*, +, *JSYST Sept. 2020 3371-3382*

System Integration of Sensor-Fusion Localization Tasks Using Vision-Based Driving Lane Detection and Road-Marker Recognition. *Lin, C.*, +, *JSYST Sept. 2020 4523-4534*

Training

Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*

Trajectory control

Local Controllability, Trajectory Planning, and Stabilization of a Two-Agent Underactuated Microrobotic System. *Fruchard, M.*, +, *JSYST June 2020 2892-2900*

Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. *Liu, J.*, +, *JSYST June 2020 3027-3038*

Trajectory optimization

Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*

Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission. *Lun, Y.*, +, *JSYST Dec. 2020 5014-5024*

Transfer functions

Research on SoS-GERT Network Model for Equipment System of Systems Contribution Evaluation Based on Joint Operation. *Wang, Z.*, +, *JSYST Sept. 2020 4188-4196*

Transforms

Design Precoded Space-Time-Frequency 4 × 1 and 4 × 2 OFDM Architectures in Frequency-Selective Fading Channels. *Yeh, H., JSYST March 2020 277-287*

Transient analysis

An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*

Local Estimation of Critical and Off-Peak Periods for Grid-Friendly Flexible Load Management. *Guzman, C.*, +, *JSYST Sept. 2020 4262-4271*

Transient Instability Mitigation via Repetitive Corrective Actions Based Upon the Real-Time Macrocoherency Evaluation. *Babu, G.V.N.Y.*, +, *JSYST Dec. 2020 5084-5095*

Transient response

A Novel Control Method Based on Droop for Cooperation of Flywheel and Battery Energy Storage Systems in Islanded Microgrids. *Khodadoost Arani, A.A.*, +, *JSYST March 2020 1080-1087*

Adaptive OFDM Waveform Design for Cognitive Radar in Signal-Dependent Clutter. *Karimi, V.*, +, *JSYST Sept. 2020 3630-3640*

Transmission networks

Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. *Mahmud, K.*, +, *JSYST Sept. 2020 3641-3652*

Spatio-Temporal Value of Energy Storage in Transmission Networks. *Khatami, R.*, +, *JSYST Sept. 2020 3855-3864*

Transmission–Distribution Cosimulation: Analytical Methods for Iterative Coupling. *Krishnamoorthy, G.*, +, *JSYST June 2020 2633-2642*

Transmitters

A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure. *Lucic, M.C.*, +, *JSYST Dec. 2020 4786-4797*

Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*

Transmitting antennas

Joint Precoding and Combining Design for Hybrid Beamforming Systems With Subconnected Structure. *Zhang, Z.*, +, *JSYST March 2020 184-195*

Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*

Outage Probability and Throughput of Multirelay SWIPT-WPCN Networks With Nonlinear EH Model and Imperfect CSI. *Jiang, R.*, +, *JSYST March 2020 1206-1217*

Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*

Secure Transmit Antenna Selection Protocol for MIMO NOMA Networks Over Nakagami-*m* Channels. *Tran, D.*, +, *JSYST March 2020 253-264*

Transmit Antenna Selection for Full-Duplex Spatial Modulation Multiple-Input Multiple-Output System. *Van Nguyen, L.*, +, *JSYST Dec. 2020 4777-4785*

Transportation

Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). *Gabbar, H.A.*, +, *JSYST March 2020 824-831*

Understanding Risks and Opportunities of Autonomous Vehicle Technology Adoption Through Systems Dynamic Scenario Modeling—The American Insurance Industry. *Liu, C.*, +, *JSYST March 2020 1365-1374*

Tree data structures

Dynamic Fault Tree Generation for Safety-Critical Systems Within a Systems Engineering Approach. *Baklouti, A.*, +, *JSYST March 2020 1512-1522*

Trees (mathematics)

Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*

Near-Optimal Multicast Tree Construction in Leaf-Spine Data Center Networks. *Luo, S.*, +, *JSYST June 2020 2581-2584*

Tsunami

An Improved Rapid-Source Parameter Determination System (AQUA) for Giant Earthquakes. *Kimura, H.*, +, *JSYST Sept. 2020 3451-3462*

Turbogenerators

Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*

Twitter

Modeling Social Contagion and Information Diffusion in Complex Socio-Technical Systems. *Muhlmeyer, M.*, +, *JSYST Dec. 2020 5187-5198*

U

Ubiquitous computing

Architecting Ubiquitous Communication and Collaborative-Automation-Based Machine Network Systems for Flexible Manufacturing. *Meng, Z.*, +, *JSYST March 2020 113-123*

Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*

ChainSDI: A Software-Defined Infrastructure for Regulation-Compliant Home-Based Healthcare Services Secured by Blockchains. *Li, P.*, +, *JSYST June 2020 2042-2053*

Ultra wideband communication

Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Ultra wideband technology

Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*

Uncertain systems

Global Fault-Tolerant Sampled-Data Control for Large-Scale Switched Time-Delay Nonlinear Systems. *He, W.*, +, *JSYST June 2020 1549-1557*

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Robust Nonlinear State Feedback Control of Bidirectional Interlink Power Converters in Grid-Connected Hybrid Microgrids. *Zolfaghari, M.*, +, *JSYST March 2020 1117-1124*

Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*

Secure Consensus Control of Multiagent Cyber-Physical Systems With Uncertain Nonlinear Models. *Rezaee, H.*, +, *JSYST Sept. 2020 3539-3546*

Uncertainty

A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. *Kordestani, M.*, +, *JSYST Dec. 2020 5407-5416*

Additive Manufacturing Evaluation Tool for Design Studies. *Garzaniti, N.*, +, *JSYST Sept. 2020 4382-4393* Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*

Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*

Underground cables

Protection of High-Voltage DC Grids Using Traveling-Wave Frequency Characteristics. *Saleh, K.A.*, +, *JSYST Sept. 2020 4284-4295*

Underwater acoustic communication

A Novel Receiver Design of Nonorthogonal FDM Systems in Underwater Acoustics Communication. *Anwar, S.*, +, *JSYST Sept. 2020 3875-3884*

Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*

Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach. *Mohammadi, Z.*, +, *JSYST Sept. 2020 3214-3224*

Underwater vehicles

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. *Chen, L.*, +, *JSYST Sept. 2020 3301-3312*

Unified Modeling Language

An MDE-Based Tool for Early Analysis of UML2.0/PSM Atomic and Composite Components. *Rouis, T.S.*, +, *JSYST June 2020 1647-1657*

Uninterruptible power supplies

An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers. *Kaur, K.*, +, *JSYST March 2020 1195-1205*

Unmanned aerial vehicles

A Generalized Dynamic Planning Framework for Green UAV-Assisted Intelligent Transportation System Infrastructure. *Lucic, M.C.*, +, *JSYST Dec. 2020 4786-4797*

Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*

Comprehensive Optimization of Energy Storage and Standoff Tracking for Solar-Powered UAV. *Wei, X.*, +, *JSYST Dec. 2020 5133-5143*

Trajectory Optimization of SUAV for Marine Vessels Communication Relay Mission. *Lun, Y.*, +, *JSYST Dec. 2020 5014-5024*

Uplink

Asymptotic Analysis of Full-Duplex Large-Scale MIMO Systems With Low-Resolution ADCs/DACs Over Rician Fading Channels. *Dai, J.*, +, *JSYST Dec. 2020 4832-4841*

Joint Optimization of Power and Fronthaul Compression for Data and Pilot Signals in Uplink C-RANs. *Yu, H.*, +, *JSYST Dec. 2020 4990-5001*

Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

Urban areas

Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*

US Department of Defense

An Information Theoretic Approach to Platform Technology Selection to Aid Influence Operations. *Hartong, M.W.*, +, *JSYST Dec. 2020 5308-5319*

Utility theory

Process Heuristics: Extraction, Analysis, and Repository Considerations. *Fillingim, K.B.*, +, *JSYST Dec. 2020 5148-5159*

V

Variable structure systems

A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*

Improving Microgrid Low-Voltage Ride-Through Capacity Using Neural Control. *Djilali, L.*, +, *JSYST June 2020 2825-2836*

Neuroadaptive Sliding Mode Formation Control of Autonomous Underwater Vehicles With Uncertain Dynamics. *Wang, J.*, +, *JSYST Sept. 2020 3325-3333*

Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. *AlShabi, M.*, +, *JSYST March 2020 971-982*

Vectors

Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*

Weight Induced Norm Approach to Group Decision Making for Multiobjective Optimization Problems in Systems Engineering. *Chiu, W.*, +, *JSYST June 2020 1580-1591*

Vehicle dynamics

Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique. *Chavhan, S.*, +, *JSYST Dec. 2020 5233-5244*

Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*

Cooperative Dynamic Fuzzy Perimeter Surveillance: Modeling and Fluid-Based Framework. *Wu, J.*, +, *JSYST Dec. 2020 5210-5220*

Research on Cooperative Trajectory Planning and Tracking Problem for Multiple Carrier Aircraft on the Deck. *Liu, J.*, +, *JSYST June 2020 3027-3038*

Vehicle routing

A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. *Zhou, Y.*, +, *JSYST Dec. 2020 5253-5264*

A Variable Neighborhood Search-Based Hybrid Multiobjective Evolutionary Algorithm for HazMat Heterogeneous Vehicle Routing Problem With Time Windows. *Jiang, P.*, +, *JSYST Sept. 2020 4344-4355*

Vehicle-to-grid

A Novel Privacy-Preserving Authentication Scheme for V2G Networks. *Su, Y.*, +, *JSYST June 2020 1963-1971*

Bidirectional Charging in V2G Systems: An In-Cell Variation Analysis of Vehicle Batteries. *Khalid, H.M.*, +, *JSYST Sept. 2020 3665-3675*

Vehicles

An Enhanced Motorway Control System for Mixed Manual/Automated Traffic Flow. *Li, D.*, +, *JSYST Dec. 2020 4726-4734*

Vehicular ad hoc networks

A Lightweight Privacy-Preserving Authentication Protocol for VANETs. *Li, X.*, +, *JSYST Sept. 2020 3547-3557*

Efficient Lattice-Based Ring Signature for Message Authentication in VANETs. *Mundhe, P.*, +, *JSYST Dec. 2020 5463-5474*

Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*

Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*

Lightweight Secure Message Broadcasting Protocol for Vehicle-to-Vehicle Communication. *Limbasiya, T.*, +, *JSYST March 2020 520-529*

Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*

Vibrations
Smart Home Monitoring System via Footstep-Induced Vibrations. *Li, F.*, +, *JSYST Sept. 2020 3383-3389*
Video communication
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*
Video streaming
Campus Edge Computing Network Based on IoT Street Lighting Nodes. *Chang, Y.*, +, *JSYST March 2020 164-171*
Fuzzy-Based 3-D Stream Traffic Lightweighting Over Mobile P2P Network. *Zhang, C.*, +, *JSYST June 2020 1840-1851*
Virtual machines
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*
Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. *Kong, P., JSYST Sept. 2020 3360-3370*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Fast Switching With VM Migration in 5G Cloud Radio Access Networks. *Wang, Y.*, +, *JSYST March 2020 477-488*
Virtualization
Autonomous Resource Slicing for Virtualized Vehicular Networks With D2D Communications Based on Deep Reinforcement Learning. *Sun, G.*, +, *JSYST Dec. 2020 4694-4705*
Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. *Wang, J.V.*, +, *JSYST March 2020 152-163*
Dynamic Network Scheduling for Virtual Routers. *Lee, K.*, +, *JSYST Sept. 2020 3618-3629*
Interplay of Processing and Radio Parameters: A Service-Oriented Performance Study. *Alabbasi, A.*, +, *JSYST March 2020 398-409*
Market-Driven Stochastic Resource Allocation Framework for Wireless Network Virtualization. *Gomez, M.M.*, +, *JSYST March 2020 489-499*
Viscosity
System Dynamic-Based Oil Weathering Processes: Simulation and Analysis. *Kasimu, A.*, +, *JSYST March 2020 1375-1383*
Visible light communication
Capacity-Maximized Transmitter Precoding for MU MIMO VLC Systems With Bounded Channel Uncertainties. *Zhao, S.*, +, *JSYST Dec. 2020 5144-5147*
Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. *Gao, D.*, +, *JSYST Dec. 2020 4674-4683*
Visual perception
Visual Perception for Multiple Human–Robot Interaction From Motion Behavior. *Benli, E.*, +, *JSYST June 2020 2937-2948*
Visualization
Systems Engineers' Effectiveness in an Organization: Text and Visual Analytics Approach. *Zavala, A.*, +, *JSYST Dec. 2020 5049-5060*
Voltage control
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
A Cyber-Physical Cooperative Hierarchical Control Strategy for Islanded Microgrid Facing With Random Communication Failure. *Zhang, B.*, +, *JSYST June 2020 2849-2860*
Adaptive Interconnection and Damping Assignment Passivity-Based Control of Interlinking Converter in Hybrid AC/DC Grids. *Azimi, S.M.*, +, *JSYST Dec. 2020 4718-4725*
An Improvized Coordinated Voltage Control Scheme for Better Utilization of Regulating Devices During Various Operating Conditions of a Distribution System. *Gururaj, M.V.*, +, *JSYST Dec. 2020 4891-4900*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Decentralized Output-Feedback-Based Robust LQR *V-f* Controller for PV-Battery Microgrid Including Generation Uncertainties. *Sen, S.*, +, *JSYST Sept. 2020 4418-4429*
Enhanced Active and Reactive Power Sharing in Islanded Microgrids. *Parvizimosaed, M.*, +, *JSYST Dec. 2020 5037-5048*
Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. *Nouri, A.*, +, *JSYST Sept. 2020 3767-3778*
Optimal Control Methods for Photovoltaic Enabled Grid With Abnormal Power Loads. *Yang, Y.*, +, *JSYST March 2020 852-861*
Optimal Voltage Control in Distribution Systems With Intermittent PV Using Multiobjective Grey-Wolf-Lévy Optimizer. *Mahmoud, K.*, +, *JSYST March 2020 760-770*
Robust Voltage Control in Inverter-Interfaced Microgrids Under Plug-and-Play Functionalities. *Zarei, A.*, +, *JSYST June 2020 2813-2824*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*
Two-Mode Adaptive Schemes for VAR Control With Solar Power and Energy Storage. *Doan, S.*, +, *JSYST March 2020 889-899*
Voltage/Current Large Transient Suppression in DC Microgrids Using Local Information and Active Stabilizing Capability. *Azimi, S.M.*, +, *JSYST March 2020 1109-1116*
Voltage measurement
PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. *Chen, X.*, +, *JSYST Dec. 2020 5396-5406*
Voltage regulators
A Coordinated Real-Time Voltage Control Approach for Increasing the Penetration of Distributed Generation. *Othman, M.M.*, +, *JSYST March 2020 699-707*
Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. *Pamshetti, V.B.*, +, *JSYST March 2020 995-1006*
Control of Parallel ULTC Transformers in Active Distribution Systems. *Pouladi, A.*, +, *JSYST March 2020 960-970*
Voltage-source converters
Improved Power Quality in a Solar PV Plant Integrated Utility Grid by Employing a Novel Adaptive Current Regulator. *Kumar, V.N.*, +, *JSYST Sept. 2020 4308-4319*
Systematized Active Power Control of PMSG-Based Wind-Driven Generators. *Ramachandran, V.*, +, *JSYST March 2020 708-717*

W

Wastewater treatment
Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019). *Malisa, R.*, +, *JSYST March 2020 1523-1530*
Water conservation
Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019). *Malisa, R.*, +, *JSYST March 2020 1523-1530*
Water pumps
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Water resources
Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019). *Malisa, R.*, +, *JSYST March 2020 1523-1530*
Design Optimization of RES-Based Desalination Systems Cooperating With Smart Grids. *Malisovas, A.*, +, *JSYST Dec. 2020 4706-4717*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Water storage
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*
Water supply
An MINLP-Based Approach for the Design-for-Control of Resilient Water Supply Systems. *Ulusoy, A.*, +, *JSYST Sept. 2020 4579-4590*

Augmenting Water Supplies Through Urban Wastewater Recycling (March 2019). *Malisa, R.*, +, *JSYST March 2020 1523-1530*
Optimal Participation of Water Desalination Plants in Electricity Demand Response and Regulation Markets. *Oikonomou, K.*, +, *JSYST Sept. 2020 3729-3739*

Waveguides
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*
Relay-Aided Outdoor-to-Indoor Communication in Millimeter-Wave Cellular Networks. *Ntontin, K.*, +, *JSYST June 2020 2473-2484*

Wavelet transforms
A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*
Multigranular Wavelet Decomposition-Based Support Vector Regression and Moving Average Method for Service-Time Prediction on Web Map Service Platforms. *Dong, G.*, +, *JSYST Sept. 2020 3653-3664*
Protection Coordination for Assembly HVDC Breakers for HVDC Multiterminal Grids Using Wavelet Transform. *Mitra, B.*, +, *JSYST March 2020 1069-1079*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Weapons
A Novel Effectiveness Evaluation Method Based on Simultaneous Probabilistic Finite-State Machines. *Nan, Y.*, +, *JSYST June 2020 1611-1622*
Disclose or Exploit? A Game-Theoretic Approach to Strategic Decision Making in Cyber-Warfare. *Chen, H.*, +, *JSYST Sept. 2020 3779-3790*

Wearable computers
Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. *Chen, J.*, +, *JSYST Sept. 2020 3570-3581*

Weather forecasting
A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*
An Integrated Preventive Operation Framework for Power Systems During Hurricanes. *Sang, Y.*, +, *JSYST Sept. 2020 3245-3255*
Optimal Charge/Discharge Scheduling of Battery Storage Interconnected With Residential PV System. *Kapoor, A.*, +, *JSYST Sept. 2020 3825-3835*

Web services
Loosely Coupled Cloud Robotic Framework for QoS-Driven Resource Allocation-Based Web Service Composition. *Xie, Y.*, +, *JSYST March 2020 1245-1256*
Services Computing Systems Engineering Framework: A Proposition and Evaluation Through SOA Principles and Analysis Model. *Kurniawan, N.B.*, +, *JSYST Sept. 2020 3105-3116*

Weibull distribution
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*

Wideband
Low-Complexity Reconfigurable and Intelligent Ultrawideband Angular Sensing. *Joshi, H.*, +, *JSYST Dec. 2020 4931-4942*

Wildfires
Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*

Wind farms
Development and Validation of Artificial Neural Network-Based Tools for Forecasting of Power System Inertia With Wind Farms Penetration. *Paidi, E.S.N.R.*, +, *JSYST Dec. 2020 4978-4989*

Wind forecasting
Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *Hemmati, M.*, +, *JSYST Dec. 2020 5340-5349*

Wind power
Active Distribution Network Operation: A Market-Based Approach. *Zubo, R.H.A.*, +, *JSYST March 2020 1405-1416*

Wind power plants
A New Combinatory Approach for Wind Power Forecasting. *Abedinia, O.*, +, *JSYST Sept. 2020 4614-4625*
A New MIMO ORC Architecture for Power Oscillation Damping Using Remote Feedback Signals Under Intermittent Observations. *Yogarathinam, A.*, +, *JSYST March 2020 939-949*
A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *Mirzaei, M.A.*, +, *JSYST Sept. 2020 3598-3608*
A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. *Dehghan, S.*, +, *JSYST Sept. 2020 4110-4118*
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System. *Mukherjee, N.*, +, *JSYST Sept. 2020 4320-4328*
Dynamic Uncertainty Set Characterization for Bulk Power Grid Flexibility Assessment. *Pourahmadi, F.*, +, *JSYST March 2020 718-728*
Stochastic Weather Modeling-Based Protection Scheme for Hybrid PV–Wind System With Immunity Against Solar Irradiance and Wind Speed. *Manohar, M.*, +, *JSYST Sept. 2020 3430-3439*

Wind speed
A Practicable Copula-Based Approach for Power Forecasting of Small-Scale Photovoltaic Systems. *Rajabalizadeh, S.*, +, *JSYST Dec. 2020 4911-4918*

Wind turbines
Active Power Sharing and Frequency Recovery Control in an Islanded Microgrid With Nonlinear Load and Nondispatchable DG. *Gheisarnejad, M.*, +, *JSYST March 2020 1058-1068*
Application of Bang–Bang Controller to Emulate Primary Frequency Response in DFIGs. *Toulabi, M.*, +, *JSYST June 2020 2615-2623*
Cable Connection Optimization for Onshore Wind Farms Considering Restricted Area and Topography. *Li, J.*, +, *JSYST Sept. 2020 3082-3092*
Discrete Multiobjective Grey Wolf Algorithm Based Optimal Sizing and Sensitivity Analysis of PV-Wind-Battery System for Rural Telecom Towers. *Kaur, R.*, +, *JSYST March 2020 729-737*
Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *Javidsharifi, M.*, +, *JSYST June 2020 2703-2712*

Windings
An Improved Current Balancing Technique of Two-Winding IG Suitable for Wind-PV-Based Grid-Isolated Hybrid Generation System. *Chatterjee, A.*, +, *JSYST Dec. 2020 4874-4882*

Wireless channels
Adaptive Jamming Power Control for Untrusted Relay Networks With Imperfect Channel Reciprocity. *Lee, K.*, +, *JSYST Sept. 2020 4217-4220*
Application of the Mixture of Lognormal Distribution to Represent the First-Order Statistics of Wireless Channels. *Das, S.*, +, *JSYST Sept. 2020 4394-4401*
Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*
Bridging the Gap Between CP-OFDM and ZP-OFDM for the Provision of Ultra-Low Latency Services in 5G. *Ayadi, R.*, +, *JSYST March 2020 603-613*
Chaos-Based Anytime-Reliable Coded Communications. *Tarable, A.*, +, *JSYST June 2020 2214-2224*
Cross PHY/APP Layer User Grouping and Power Allocation for Uplink Multiantenna NOMA Video Communication Systems. *Tseng, S.*, +, *JSYST Sept. 2020 3351-3359*

Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*
Decentralized Learning for Opportunistic Spectrum Access: Multiuser Restless Multiarmed Bandit Formulation. *Agrawal, H.*, +, *JSYST June 2020 2485-2496*
Deep RNN-Based Channel Tracking for Wireless Energy Transfer System. *Kang, J.*, +, *JSYST Sept. 2020 4340-4343*
Effect of Doppler Shift on the Performance of Multicell Full-Duplex Massive MIMO Networks. *Dai, J.*, +, *JSYST June 2020 2421-2431*
Efficient Evaluation of Massive MIMO Channel Capacity. *Al-Wahhamy, A.*, +, *JSYST March 2020 614-620*
Energy-Efficient Resource Allocation for Dynamic Priority-Based Vehicular Mobile-Health Communications. *Fan, B.*, +, *JSYST June 2020 2097-2108*
Energy-Efficient Resource Allocation in SWIPT Cooperative Wireless Networks. *Guo, S.*, +, *JSYST Sept. 2020 4131-4142*
Ergodic Capacity of NOMA-Based Uplink Satellite Networks With Randomly Deployed Users. *Yan, X.*, +, *JSYST Sept. 2020 3343-3350*
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
Joint Nullspace Projection-Based Interference Mitigation for Full-Duplex Relay-Assisted Multicell Networks. *Fadoul, M.M.*, +, *JSYST June 2020 2392-2399*
Joint Trajectory Design, Tx Power Allocation, and Rx Power Splitting for UAV-Enabled Multicasting SWIPT Systems. *Kang, J.*, +, *JSYST Sept. 2020 3740-3743*
Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. *Zhang, H.*, +, *JSYST March 2020 445-456*
Near-Optimal Detection of Monobit Digitized UWB Signals in the Presence of Noise and Strong Intersymbol Interference. *Khani, H.*, +, *JSYST June 2020 2311-2322*
Novel Algorithms for Blind Sensing of Signals With Variable Bandwidths in Cognitive Radio. *De, P., JSYST Sept. 2020 4272-4283*
On the Secrecy Performance of Random VLC Networks With Imperfect CSI and Protected Zone. *Wang, J.*, +, *JSYST Sept. 2020 4176-4187*
Optimizing Design Parameters for Relay-Aided Massive MIMO Systems. *El-Mashed, M.G., JSYST June 2020 2249-2256*
Optimizing Efficient Energy Transmission on a SWIPT Interference Channel Under Linear/Nonlinear EH Models. *Tuan, P.V.*, +, *JSYST March 2020 457-468*
Outage Probability in the Uplink of Multitier Millimeter Wave Cellular Networks. *Onireti, O.*, +, *JSYST June 2020 2520-2531*
Partial-Fixed Interference Alignment in Multiuser Interference Channel. *Chen, X.*, +, *JSYST June 2020 2303-2310*
Performance Analysis of a Mixed Cooperative PLC–VLC System for Indoor Communication Systems. *Jani, M.*, +, *JSYST March 2020 469-476*
Performance Analysis of Impaired SWIPT NOMA Relaying Networks Over Imperfect Weibull Channels. *Li, X.*, +, *JSYST March 2020 669-672*
Performance Evaluation of In-Band Full-Duplex System Using One-Time-Slot Two-Way Relay. *Chang, K.*, +, *JSYST March 2020 510-519*
Probabilistic Stability of Traffic Load Balancing on Wireless Complex Networks. *Moutsinas, G.*, +, *JSYST June 2020 2551-2556*
QoS-Aware Cross-Layer Optimization of Hybrid DSL-LTE Access Networks. *Chuah, T.C.*, +, *JSYST June 2020 2175-2186*
Rate-Loss Mitigation for a Millimeter-Wave Beamspace MIMO Lens Antenna Array System Using a Hybrid Beam Selection Scheme. *Sarker, M.A.L.*, +, *JSYST Sept. 2020 3582-3585*
Robust Directional Modulation Design for Secrecy Rate Maximization in Multiuser Networks. *Gui, L.*, +, *JSYST Sept. 2020 3150-3160*
Robust Optimization for Energy Efficiency in MIMO Two-Way Relay Networks With SWIPT. *Li, Q.*, +, *JSYST March 2020 196-207*
Robust Power Control for Clustering-Based Vehicle-to-Vehicle Communication. *Liu, Z.*, +, *JSYST June 2020 2557-2568*
Secure Communications Over Cell-Free Massive MIMO Networks With Hardware Impairments. *Zhang, X.*, +, *JSYST June 2020 1909-1920*
Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. *Tian, X.*, +, *JSYST March 2020 548-559*
Securing Untrusted Full-Duplex Relay Channels in the Presence of Multiple External Cluster-Based Eavesdroppers. *Mabrouk, A.*, +, *JSYST March 2020 665-668*

Wireless communication

Artificial Noise Hopping: A Practical Secure Transmission Technique With Experimental Analysis for Millimeter Wave Systems. *Ju, Y.*, +, *JSYST Dec. 2020 5121-5132*
Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*
Enhanced Security Identity-Based Privacy-Preserving Authentication Scheme Supporting Revocation for VANETs. *Wang, Y.*, +, *JSYST Dec. 2020 5373-5383*
Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*
Learning-Based Resource Management for SWIPT. *Lee, K.*, +, *JSYST Dec. 2020 4750-4753*
Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. *Xu, D., JSYST Dec. 2020 5229-5232*
Shortest Uplink Scheduling for NOMA-Based Industrial Wireless Networks. *Xu, C.*, +, *JSYST Dec. 2020 5384-5395*

Wireless fidelity

Environment-Assisted Passive WiFi Tracking With Self-Localizing Asynchronous Sniffers. *Suraweera, N.*, +, *JSYST Dec. 2020 4798-4809*
WiFlowCount: Device-Free People Flow Counting by Exploiting Doppler Effect in Commodity WiFi. *Zhou, R.*, +, *JSYST Dec. 2020 4919-4930*

Wireless LAN

A Review on Design and Implementation of Software-Defined WLANs. *Qureshi, K.I.*, +, *JSYST June 2020 2601-2614*
Association, Blockage, and Handoffs in IEEE 802.11ad-Based 60-GHz Picocells—A Closer Look. *Joshi, K.C.*, +, *JSYST June 2020 2144-2153*
Calibrating Phase Offsets for Commodity WiFi. *Zhang, D.*, +, *JSYST March 2020 661-664*
Energy-Efficient GCSA Medium Access Protocol for Infrastructure-Based Cognitive Radio Networks. *Syed, T.S.*, +, *JSYST March 2020 288-297*
FreeTrack: Device-Free Human Tracking With Deep Neural Networks and Particle Filtering. *Zhou, R.*, +, *JSYST June 2020 2990-3000*
Lightweight Privacy-Preserving Scheme in Wi-Fi Fingerprint-Based Indoor Localization. *Zhang, G.*, +, *JSYST Sept. 2020 4638-4647*
Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. *Gouissem, A.*, +, *JSYST June 2020 2133-2143*
WiFi Fingerprinting Indoor Localization Using Local Feature-Based Deep LSTM. *Chen, Z.*, +, *JSYST June 2020 3001-3010*

Wireless mesh networks

Delay- and Interference-Aware Routing for Wireless Mesh Network. *Chai, Y.*, +, *JSYST Sept. 2020 4119-4130*

Wireless sensor networks

A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. *Du, C.*, +, *JSYST Sept. 2020 4101-4109*
A Lattice Signcrypted Secured Localization in Wireless Sensor Networks. *Kumar, G.*, +, *JSYST Sept. 2020 3949-3956*
A New Distributed Fault Detection Method for Wireless Sensor Networks. *Gharamaleki, M.M.*, +, *JSYST Dec. 2020 4883-4890*
A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks. *Jin, Y.*, +, *JSYST Sept. 2020 3418-3429*
A Periodic Multinode Charging and Data Collection Scheme With Optimal Traveling Path in WRSNs. *Lyu, Z.*, +, *JSYST Sept. 2020 3518-3529*
A Software-Defined Management System for IP-Enabled WSNs. *Jurado-Lasso, F.F.*, +, *JSYST June 2020 2335-2346*
ASIS: Autonomous Seismic Imaging System With *In Situ* Data Analytics and Renewable Energy. *Clemente, J.*, +, *JSYST March 2020 1277-1284*
Connected Target ϵ-probability Coverage in WSNs With Directional Probabilistic Sensors. *Xu, X.*, +, *JSYST Sept. 2020 3399-3409*
Cooperative Communication and Energy-Harvesting-Enabled Energy-Efficient Design of MI-Based Clustered Nonconventional WSNs. *Prasanna, A.L.*, +, *JSYST June 2020 2293-2302*

Cross-Layer Network Lifetime Maximization in Underwater Wireless Sensor Networks. *Zhou, Y.*, +, *JSYST March 2020 220-231*

Efficient Obfuscation for Encrypted Identity-Based Signatures in Wireless Body Area Networks. *Zhang, Y.*, +, *JSYST Dec. 2020 5320-5328*

Energy-Aware Connectivity Restoration Mechanism for Cyber-Physical Systems of Networked Sensors and Robots. *Baroudi, U.*, +, *JSYST Sept. 2020 3093-3104*

Energy-Efficient Barrier Lifetime Prolonging Scheme Based on Repairing in Directional Sensor Networks. *Fan, X.*, +, *JSYST Dec. 2020 4943-4954*

Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. *Yadav, S.*, +, *JSYST June 2020 2585-2588*

Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. *Kaur, H.*, +, *JSYST June 2020 2003-2011*

Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *Khasawneh, A.M.*, +, *JSYST Dec. 2020 4735-4745*

Increasing the Lifetime of Underwater Acoustic Sensor Networks: Difference Convex Approach. *Mohammadi, Z.*, +, *JSYST Sept. 2020 3214-3224*

MEGAN: Multipurpose Energy-Efficient, Adaptable, and Low-Cost Wireless Sensor Node for the Internet of Things. *Misra, S.*, +, *JSYST March 2020 144-151*

On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. *Vo, V.N.*, +, *JSYST Dec. 2020 4955-4966*

Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. *Muduli, L.*, +, *JSYST June 2020 3039-3046*

ORCID: Opportunistic Reconnectivity for Network Management in the Presence of Dumb Nodes in Wireless Sensor Networks. *Roy, A.*, +, *JSYST March 2020 9-16*

Performance Analysis of Software-Defined Multihop Wireless Sensor Networks. *Jurado-Lasso, F.F.*, +, *JSYST Dec. 2020 4653-4662*

Reliability Evaluation and Reliability-Based Optimal Design for Wireless Sensor Networks. *Xiang, S.*, +, *JSYST June 2020 1752-1763*

SDNMM—A Generic SDN-Based Modular Management System for Wireless Sensor Networks. *Ndiaye, M.*, +, *JSYST June 2020 2347-2357*