

# 2020 Index

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This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. 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.

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- He, Y.**, see Mao, Y., *TMC Dec. 2020* 2916-2932
- Heinzelman, W.**, see Funai, C., *TMC Jan. 2020* 60-73
- Hekmati, A.**, Teymouri, P., Todd, T.D., Zhao, D., and Karakostas, G., Optimal Mobile Computation Offloading with Hard Deadline Constraints; *TMC Sept. 2020* 2160-2173
- Hernandez-Orallo, E.**, see Vegni, A.M., *TMC July 2020* 1570-1585
- Hillyard, P.**, and Patwari, N., Never Use Labels: Signal Strength-Based Bayesian Device-Free Localization in Changing Environments; *TMC April 2020* 894-906
- Himayat, N.**, see Gapeyenko, M., *TMC Sept. 2020* 2221-2233
- Ho, T.M.**, see Ndikumana, A., *TMC June 2020* 1359-1374
- Hong, C.S.**, see Ndikumana, A., *TMC June 2020* 1359-1374
- Hostettler, R.**, see Yigitler, H., *TMC March 2020* 680-696
- Hsu, Y.**, Modiano, E., and Duan, L., Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals; *TMC Dec. 2020* 2903-2915
- Hu, F.**, see Toorchi, N., *TMC Dec. 2020* 2981-2996
- Hu, F.**, see Fan, X., *TMC July 2020* 1555-1569
- Hu, P.**, Pathak, P.H., Zhang, H., Yang, Z., and Mohapatra, P., High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation; *TMC July 2020* 1603-1617
- Hu, W.**, see Chen, W., *TMC Nov. 2020* 2520-2532
- Hu, Y.**, see Chen, Y., *TMC Dec. 2020* 2891-2902
- Hu, Y.C.**, see Lai, Z., *TMC July 2020* 1586-1602



**Hua, J.**, see Mao, Y., *TMC Dec. 2020 2916-2932*  
**Huang, C.**, see Liu, F., *TMC Oct. 2020 2330-2343*  
**Huang, F.**, see Xu, M., *TMC Feb. 2020 314-330*  
**Huang, H.**, Guo, S., Liang, W., Wang, K., and Okabe, Y., Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters; *TMC Dec. 2020 2743-2760*  
**Huang, J.**, see Yu, H., *TMC June 2020 1420-1433*  
**Huang, J.**, see Wang, Z., *TMC June 2020 1286-1298*  
**Huang, J.**, see Wang, Z., *TMC Sept. 2020 2145-2159*  
**Huang, L.**, Bi, S., and Zhang, Y.A., Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks; *TMC Nov. 2020 2581-2593*  
**Huang, L.**, Fast-Convergent Learning-Aided Control in Energy Harvesting Networks; *TMC Dec. 2020 2793-2803*  
**Huang, M.**, Liang, W., Shen, X., Ma, Y., and Kan, H., Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing; *TMC Nov. 2020 2699-2713*  
**Huang, P.**, see Liu, C., *TMC Jan. 2020 116-129*  
**Huang, W.**, see Jiang, Y., *TMC March 2020 540-551*  
**Huang, Y.**, Song, X., Ye, F., Yang, Y., and Li, X., Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments; *TMC April 2020 852-864*  
**Huang, Y.**, see Chen, W., *TMC Nov. 2020 2520-2532*  
**Huh-Yoo, J.**, see Bi, C., *TMC Aug. 2020 1818-1830*  
**Hui, P.**, see Chatzopoulos, D., *TMC March 2020 640-653*  
**Hui, P.**, see Tu, Z., *TMC Nov. 2020 2670-2683*  
**Hung, Y.**, Wang, C., and Hwang, R., Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing; *TMC April 2020 922-934*  
**Hussini, S.J.**, see Al-Fuqaha, A., *TMC Feb. 2020 484-496*  
**Hwang, I.**, see Min, C., *TMC June 2020 1448-1464*  
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## I

**Iosifidis, G.**, see Yu, H., *TMC June 2020 1420-1433*

## J

**Jang, H.S.**, Jin, H., Jung, B.C., and Quek, T.Q.S., Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency; *TMC Aug. 2020 1984-1997*  
**Jang, R.**, Kang, J., Mohaisen, A., and Nyang, D., Catch Me If You Can: Rogue Access Point Detection Using Intentional Channel Interference; *TMC May 2020 1056-1071*  
**Jantti, R.**, see Yigitler, H., *TMC March 2020 680-696*  
**Javan, M.R.**, see Rezvani, S., *TMC Feb. 2020 331-346*  
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**Jeong, J.**, see Park, Y.D., *TMC Oct. 2020 2299-2315*  
**Ji, W.**, and Zhu, W., Profit Maximization for Sponsored Data in Wireless Video Transmission Systems; *TMC Aug. 2020 1928-1942*  
**Ji, X.**, see Cheng, Y., *TMC April 2020 907-921*  
**Jia, R.**, see Wang, X., *TMC Feb. 2020 362-375*  
**Jiang, C.**, see Du, J., *TMC May 2020 1040-1055*  
**Jiang, Y.**, Huang, W., Bennis, M., and Zheng, F., Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks; *TMC March 2020 540-551*  
**Jin, D.**, see Liu, Y., *TMC Sept. 2020 2129-2144*  
**Jin, D.**, see Tu, Z., *TMC Nov. 2020 2670-2683*  
**Jin, H.**, see Jang, H.S., *TMC Aug. 2020 1984-1997*  
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**Jin, Z.**, see Lin, F., *TMC Dec. 2020 2774-2792*  
**Joe-Wong, C.**, see Xu, S., *TMC Aug. 2020 1831-1847*

**Jones, W.**, Wilson, R.E., Doufexi, A., and Sooriyabandara, M., A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs; *TMC Feb. 2020 262-275*  
**Jorswieck, E.A.**, see Rezvani, S., *TMC Feb. 2020 331-346*  
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## K

**Kadri, A.**, see Alsharoa, A., *TMC April 2020 954-968*  
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**Kamal, A.E.**, see Alsharoa, A., *TMC April 2020 954-968*  
**Kampeas, J.**, Cohen, A., and Gurewitz, O., Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac; *TMC Nov. 2020 2548-2561*  
**Kan, H.**, see Huang, M., *TMC Nov. 2020 2699-2713*  
**Kaneva, K.**, Aboutorab, N., Sorour, S., and Reed, M.C., Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding; *TMC Feb. 2020 276-287*  
**Kang, J.**, see Jang, R., *TMC May 2020 1056-1071*  
**Kang, S.**, see Min, C., *TMC June 2020 1448-1464*  
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**Karandikar, A.**, see Roy, A., *TMC Feb. 2020 376-389*  
**Khalil, I.**, see Shao, S., *TMC April 2020 836-851*  
**Khoshkholgh, M.G.**, Navaie, K., Shin, K.G., and Leung, V.C.M., Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation; *TMC Sept. 2020 2044-2061*  
**Khreishah, A.**, see Shao, S., *TMC April 2020 836-851*  
**Kim, D.**, Jung, J., Koo, Y., and Yi, Y., Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up; *TMC April 2020 788-802*  
**Kim, D.**, Lee, H., Song, H., Choi, N., and Yi, Y., Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners; *TMC Nov. 2020 2609-2622*  
**Kim, D.I.**, see Kim, S.H., *TMC July 2020 1731-1744*  
**Kim, H.**, see Lee, J., *TMC Nov. 2020 2656-2669*  
**Kim, S.H.**, and Kim, D.I., Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks; *TMC July 2020 1731-1744*  
**Kim, Y.**, see Lee, M., *TMC Sept. 2020 2189-2201*  
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**Ksentini, A.**, see Taleb, T., *TMC Sept. 2020 2010-2027*  
**Kulshrestha, T.**, Saxena, D., Niyogi, R., and Cao, J., Real-Time Crowd Monitoring Using Seamless Indoor-Outdoor Localization; *TMC March 2020 664-679*  
**Kumar, R.**, see Sawant, S., *TMC Nov. 2020 2640-2655*  
**Kumar, S.**, and Das, S.K., Target Detection and Localization Methods Using Compartmental Model for Internet of Things; *TMC Sept. 2020 2234-2249*  
**Kumar, S.**, see Toorchi, N., *TMC Dec. 2020 2981-2996*  
**Kusy, B.**, see Sommer, P., *TMC March 2020 566-580*  
**Kwon, D.**, Seo, J., Cho, Y., Lee, B., and Paek, Y., PrOS: Light-Weight Privatized Secure OSes in ARM TrustZone; *TMC June 2020 1434-1447*  
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## L

- L. Vu, H.**, see Pokhrel, S.R., *TMC Dec. 2020 2731-2742*
- Laghrissi, A.**, see Prados-Garzon, J., *TMC Jan. 2020 1-14*
- Lai, Z.**, Hu, Y.C., Cui, Y., Sun, L., Dai, N., and Lee, H., Furion: Engineering High-Quality Immersive Virtual Reality on Today's Mobile Devices; *TMC July 2020 1586-1602*
- Lakshmi, L.R.**, and Sikdar, B., Blockage Aware Fair Scheduling with Differentiated Service Support in mmWave WPANs/WLANs; *TMC Nov. 2020 2562-2580*
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- Lee, H.**, see Kim, D., *TMC Nov. 2020 2609-2622*
- Lee, H.**, see Lai, Z., *TMC July 2020 1586-1602*
- Lee, J., Lee, U.**, and Kim, H., PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving; *TMC Nov. 2020 2656-2669*
- Lee, J.Y.B.**, see Zhang, G., *TMC June 2020 1346-1358*
- Lee, M.**, Kim, Y., Piao, Y., and Lee, T., Recycling Random Access Opportunities with Secondary Access Class Barring; *TMC Sept. 2020 2189-2201*
- Lee, T.**, see Lee, M., *TMC Sept. 2020 2189-2201*
- Lee, U.**, see Lee, J., *TMC Nov. 2020 2656-2669*
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- Li, B.**, see Wang, J., *TMC Sept. 2020 2062-2075*
- Li, B.**, see Chen, Y., *TMC July 2020 1702-1714*
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- Li, K.**, see Xie, X., *TMC Aug. 2020 1848-1861*
- Li, K.**, see Xie, X., *TMC Oct. 2020 2344-2357*
- Li, L.**, Liu, M., Shen, W., and Cheng, G., Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function; *TMC Feb. 2020 419-431*
- Li, M.**, see Xu, X., *TMC April 2020 865-879*
- Li, P.**, see Qu, Y., *TMC Jan. 2020 188-199*
- Li, Q.**, see Miao, X., *TMC July 2020 1664-1676*
- Li, R.**, and Patras, P., Max-Min Fair Resource Allocation in Millimetre-Wave Backhalls; *TMC Aug. 2020 1879-1895*
- Li, R.**, see Wang, J., *TMC Sept. 2020 2062-2075*
- Li, T.**, see Xu, J., *TMC July 2020 1618-1633*
- Li, X.**, see Dai, H., *TMC Jan. 2020 44-59*
- Li, X.**, see Diez, L., *TMC March 2020 624-639*
- Li, X.**, see Zhao, J., *TMC Aug. 2020 1943-1955*
- Li, X.**, see Huang, Y., *TMC April 2020 852-864*
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- Li, Y.**, see Liu, Y., *TMC Sept. 2020 2129-2144*
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- Li, Y.**, see Chen, Q., *TMC May 2020 1123-1137*
- Li, Y.**, see Tu, Z., *TMC Nov. 2020 2670-2683*
- Li, Y.**, and Gao, W., Towards A Personal Mobile Cloud via Generic Device Interconnections; *TMC Dec. 2020 2965-2980*
- Li, Y.**, Wang, X., Gan, X., Jin, H., Fu, L., and Wang, X., Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing; *TMC Dec. 2020 2833-2849*
- Li, Z.**, see Liu, Y., *TMC Aug. 2020 1775-1788*
- Liang, W.**, see Huang, M., *TMC Nov. 2020 2699-2713*
- Liang, W.**, see Huang, H., *TMC Dec. 2020 2743-2760*
- Liang, X.**, see Meng, Y., *TMC Feb. 2020 432-449*
- Lim, G.**, see Song, S., *TMC May 2020 1072-1083*
- Lin, F.**, Cho, K.W., Song, C., Jin, Z., and Xu, W., Exploring a Brain-Based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation; *TMC Dec. 2020 2774-2792*
- Lin, L.**, see Chen, Y., *TMC July 2020 1702-1714*
- Lin, X.**, see Ni, J., *TMC June 2020 1317-1331*
- Liu, C.**, Huang, P., Xiao, L., and Esfahanian, A., Inter-Femtocell Interference Identification and Resource Management; *TMC Jan. 2020 116-129*
- Liu, C.H.**, Ma, X., Gao, X., and Tang, J., Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning; *TMC June 2020 1274-1285*
- Liu, C.H.**, see Zhan, Y., *TMC Oct. 2020 2316-2329*
- Liu, F.**, Zhang, Z., Du, R., Sheng, J., and Huang, C., Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation; *TMC Oct. 2020 2330-2343*
- Liu, J.**, see Yu, J., *TMC Jan. 2020 130-141*
- Liu, J.**, Zhang, C., Lorenzo, B., and Fang, Y., DPavatar: A Real-Time Location Protection Framework for Incumbent Users in Cognitive Radio Networks; *TMC March 2020 552-565*
- Liu, J.**, see Sommer, P., *TMC March 2020 566-580*
- Liu, J.**, see Feng, B., *TMC Oct. 2020 2475-2488*
- Liu, J.**, Fu, L., Wang, X., Tang, F., and Chen, G., Joint Recommendations in Multilayer Mobile Social Networks; *TMC Oct. 2020 2358-2373*
- Liu, J.**, see Liu, X., *TMC May 2020 1184-1199*
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- Liu, J.**, see Yu, J., *TMC Dec. 2020 2850-2862*
- Liu, K.**, see Elgabli, A., *TMC Jan. 2020 159-172*
- Liu, K.**, Zha, Z., Wan, W., Aggarwal, V., Fu, B., and Chen, M., Optimizing TCP Loss Recovery Performance Over Mobile Data Networks; *TMC June 2020 1401-1419*
- Liu, K.**, see Wang, J., *TMC Sept. 2020 2062-2075*
- Liu, L.**, see Luo, L., *TMC Dec. 2020 2946-2964*
- Liu, M.**, see Li, L., *TMC Feb. 2020 419-431*
- Liu, P.**, Wang, X., Hawbani, A., Busaileh, O., Zhao, L., and Al-Dubai, A., FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks; *TMC Nov. 2020 2623-2639*
- Liu, P.**, see Luo, L., *TMC Dec. 2020 2946-2964*
- Liu, R.P.**, see Sutton, G.J., *TMC May 2020 1084-1095*
- Liu, S.**, Fu, L., and Xie, W., Hidden-Node Problem in Full-Duplex Enabled CSMA Networks; *TMC Feb. 2020 347-361*
- Liu, T.**, Abouzeid, A.A., and Julius, A.A., Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching; *TMC Jan. 2020 231-244*
- Liu, T.**, see Wang, J., *TMC Sept. 2020 2062-2075*
- Liu, T.**, see Fan, X., *TMC July 2020 1555-1569*
- Liu, X.**, see Xu, M., *TMC Feb. 2020 314-330*
- Liu, X.**, see Xie, X., *TMC Aug. 2020 1848-1861*
- Liu, X.**, see Xie, X., *TMC Oct. 2020 2344-2357*
- Liu, X.**, Liu, J., Zhu, S., Wang, W., and Zhang, X., Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem; *TMC May 2020 1184-1199*
- Liu, X.**, see Zhang, T., *TMC July 2020 1715-1730*
- Liu, Y.**, see Meng, Y., *TMC Feb. 2020 432-449*
- Liu, Y.**, see Ouyang, Z., *TMC Feb. 2020 300-313*
- Liu, Y.**, and Li, Z., *aLeak*: Context-Free Side-Channel from Your Smart Watch Leaks Your Typing Privacy; *TMC Aug. 2020 1775-1788*
- Liu, Y.**, see Guo, S., *TMC Sept. 2020 2202-2220*
- Liu, Y.**, Li, Y., Niu, Y., and Jin, D., Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing; *TMC Sept. 2020 2129-2144*
- Liu, Y.**, see Wang, X., *TMC Dec. 2020 2804-2817*
- Liu, Z.**, Zhang, L., Ni, W., and Collings, I.B., Uncoordinated Pseudonym Changes for Privacy Preserving in Distributed Networks; *TMC June 2020 1465-1477*
- Loch, A.**, see Scalabrin, M., *TMC May 2020 1138-1155*
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**Loreti, P.**, and Bracciale, L., Optimized Neighbor Discovery for Opportunistic Networks of Energy Constrained IoT Devices; *TMC June 2020 1387-1400*  
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**Luo, J.**, see Yang, Y., *TMC March 2020 528-539*  
**Luo, L.**, Zeng, Q., Cao, C., Chen, K., Liu, J., Liu, L., Gao, N., Yang, M., Xing, X., and Liu, P., Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation; *TMC Dec. 2020 2946-2964*  
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## M

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**Manna, T.**, and Misra, I.S., Performance Analysis of Scheduled Access Mode of the IEEE 802.15.6 MAC Protocol under Non-Ideal Channel Conditions; *TMC April 2020 935-953*  
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**Manzoni, P.**, see Vegni, A.M., *TMC July 2020 1570-1585*  
**Mao, W.**, see Xie, D., *TMC Oct. 2020 2264-2277*  
**Mao, Y.**, He, Y., Zhang, Y., Hua, J., and Zhong, S., Secure TDD MIMO Networks Against Training Sequence Based Eavesdropping Attack; *TMC Dec. 2020 2916-2932*  
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**Miao, X.**, Gao, Y., Mai, G., Chen, G., and Li, Q., On Efficiently Monitoring Continuous Aggregate  $k$  Nearest Neighbors in Road Networks; *TMC July 2020 1664-1676*  
**Min, C.**, Lee, Y., Yoo, C., Hwang, I., Ju, Y., Song, J., and Kang, S., Scalable Power Impact Prediction of Mobile Sensing Applications at Pre-Installation Time; *TMC June 2020 1448-1464*  
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**Misra, S.**, see Saha, B.K., *TMC June 2020 1375-1386*  
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**Moysen, J.**, and Garcia-Lozano, M., Learning-Based Tracking Area List Management in 4G and 5G Networks; *TMC Aug. 2020 1862-1878*  
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## N

**Nahrstedt, K.**, see Yu, T., *TMC July 2020 1649-1663*  
**Natalizio, E.**, Zema, N.R., Yanmaz, E., Pugliese, L.D.P., and Guerriero, F., Take the Field from Your Smartphone: Leveraging UAVs for Event Filming; *TMC Aug. 2020 1971-1983*  
**Navaie, K.**, see Khoshkholgh, M.G., *TMC Sept. 2020 2044-2061*  
**Ndikumana, A.**, Tran, N.H., Ho, T.M., Han, Z., Saad, W., Niyato, D., and Hong, C.S., Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing; *TMC June 2020 1359-1374*  
**Nguyen, D.N.**, see Cheng, Q., *TMC Dec. 2020 2874-2890*  
**Nguyen, N.**, see Bruschi, A., *TMC March 2020 697-710*  
**Ni, J.**, Zhang, K., Xia, Q., Lin, X., and Shen, X., Enabling Strong Privacy Preservation and Accurate Task Allocation for Mobile Crowdsensing; *TMC June 2020 1317-1331*  
**Ni, W.**, see Liu, Z., *TMC June 2020 1465-1477*  
**Nikolaidis, I.**, see Gao, W., *TMC March 2020 654-663*  
**Niu, J.**, see Ouyang, Z., *TMC Feb. 2020 300-313*  
**Niu, Y.**, see Liu, Y., *TMC Sept. 2020 2129-2144*  
**Niyato, D.**, see Ndikumana, A., *TMC June 2020 1359-1374*  
**Niyato, D.**, see Asghari, M., *TMC Aug. 2020 1789-1803*  
**Niyogi, R.**, see Kulshrestha, T., *TMC March 2020 664-679*  
**Noh, H.Y.**, see Xu, S., *TMC Aug. 2020 1831-1847*  
**Nyang, D.**, see Jang, R., *TMC May 2020 1056-1071*

## O

**Okabe, Y.**, see Huang, H., *TMC Dec. 2020 2743-2760*  
**Ouyang, Z.**, Niu, J., Liu, Y., and Guizani, M., Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles; *TMC Feb. 2020 300-313*

## P

**P. Pattathil, D.**, see Unde, A.S., *TMC Oct. 2020 2250-2263*  
**Padmanabhan, V.N.**, see Bhandari, R., *TMC Sept. 2020 2116-2128*  
**Paek, Y.**, see Kwon, D., *TMC June 2020 1434-1447*  
**Palash, M.R.**, and Chen, K., MPWiFi: Synergizing MPTCP Based Simultaneous Multipath Access and WiFi Network Performance; *TMC Jan. 2020 142-158*  
**Pan, C.**, see Pan, Y., *TMC Nov. 2020 2489-2504*  
**Pan, J.**, see Gao, X., *TMC June 2020 1332-1345*  
**Pan, Y.**, Pan, C., Yang, Z., Chen, M., and Wang, J., A Caching Strategy Towards Maximal D2D Assisted Offloading Gain; *TMC Nov. 2020 2489-2504*  
**Panayiotou, C.G.**, see Papaioannou, S., *TMC Oct. 2020 2374-2391*  
**Papaioannou, S.**, Kolios, P., Theocharides, T., Panayiotou, C.G., and Polycarpou, M.M., Jointly-Optimized Searching and Tracking with Random Finite Sets; *TMC Oct. 2020 2374-2391*  
**Park, Y.D.**, Jeon, S., Jeong, J., and Suh, Y., FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs; *TMC Oct. 2020 2299-2315*  
**Parsaeefard, S.**, see Azizi, A., *TMC Oct. 2020 2445-2460*  
**Pathak, P.H.**, see Hu, P., *TMC July 2020 1603-1617*  
**Patras, P.**, see Li, R., *TMC Aug. 2020 1879-1895*  
**Patrone, F.**, see Babich, F., *TMC Feb. 2020 390-404*  
**Pattipati, K.R.**, see Qin, Y., *TMC Nov. 2020 2505-2519*  
**Patwari, N.**, see Yigitler, H., *TMC March 2020 680-696*  
**Patwari, N.**, see Hillyard, P., *TMC April 2020 894-906*  
**Paul, P.**, Wu, H., Xin, C., and Song, M., Beamforming Oriented Topology Control for mmWave Networks; *TMC July 2020 1519-1531*  
**Peng, W.**, see Bi, C., *TMC Aug. 2020 1818-1830*  
**Peng, X.**, see Zhu, W., *TMC July 2020 1544-1554*  
**Peng, Y.**, see Zheng, Z., *TMC April 2020 769-787*  
**Pi, X.**, see Xu, S., *TMC Aug. 2020 1831-1847*  
**Piao, Y.**, see Lee, M., *TMC Sept. 2020 2189-2201*  
**Pierre, S.**, see Fafolohan, E.M.O., *TMC Aug. 2020 1745-1759*  
**Pokhrel, S.R.**, L. Vu, H., and Cricenti, A.L., Adaptive Admission Control for IoT Applications in Home WiFi Networks; *TMC Dec. 2020 2731-2742*



**Polycarpou, M.M.**, *see* Papaioannou, S., *TMC Oct. 2020 2374-2391*  
**Pompili, D.**, *see* Rahmati, M., *TMC Feb. 2020 405-418*  
**Prabhakar, S.**, *see* Zhu, T., *TMC Feb. 2020 466-483*  
**Prados-Garzon, J.**, Laghrissi, A., Bagaa, M., Taleb, T., and Lopez-Soler, J.M., A Complete LTE Mathematical Framework for the Network Slice Planning of the EPC; *TMC Jan. 2020 1-14*  
**Prados-Garzon, J.**, *see* Afolabi, I., *TMC Nov. 2020 2594-2608*  
**Psounis, K.**, *see* Zhang, Y., *TMC Sept. 2020 2101-2115*  
**Pudlewski, S.**, *see* Toorchi, N., *TMC Dec. 2020 2981-2996*  
**Pugliese, L.D.P.**, *see* Natalizio, E., *TMC Aug. 2020 1971-1983*  
**Pushp, S.**, *see* Xu, M., *TMC Feb. 2020 314-330*

## Q

**Qi, H.**, *see* Xie, X., *TMC Aug. 2020 1848-1861*  
**Qi, H.**, *see* Xie, X., *TMC Oct. 2020 2344-2357*  
**Qian, C.**, *see* Wang, G., *TMC Jan. 2020 74-89*  
**Qian, F.**, *see* Xu, M., *TMC Feb. 2020 314-330*  
**Qian, F.**, *see* Qin, Y., *TMC Nov. 2020 2505-2519*  
**Qin, Y.**, Jin, R., Hao, S., Pattipati, K.R., Qian, F., Sen, S., Yue, C., and Wang, B., A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation; *TMC Nov. 2020 2505-2519*  
**Qiu, L.**, and Cao, G., Popularity-Aware Caching Increases the Capacity of Wireless Networks; *TMC Jan. 2020 173-187*  
**Qiu, Z.**, *see* Wang, J., *TMC March 2020 598-611*  
**Qu, Y.**, Tang, S., Dong, C., Li, P., Guo, S., Dai, H., and Wu, F., Posted Pricing for Chance Constrained Robust Crowdsensing; *TMC Jan. 2020 188-199*  
**Qu, Z.**, Ye, B., Tang, B., Guo, S., Lu, S., and Zhuang, W., Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges; *TMC Feb. 2020 288-299*  
**Qu, Z.**, *see* Zhu, T., *TMC Feb. 2020 466-483*  
**Quek, T.Q.S.**, *see* Jang, H.S., *TMC Aug. 2020 1984-1997*

## R

**Rahmati, M.**, and Pompili, D., Probabilistic Spatially-Divided Multiple Access in Underwater Acoustic Sparse Networks; *TMC Feb. 2020 405-418*  
**Raman, B.**, *see* Bhandari, R., *TMC Sept. 2020 2116-2128*  
**Rao, K.**, *see* Wang, J., *TMC July 2020 1492-1505*  
**Rao, Z.**, *see* Xu, J., *TMC July 2020 1618-1633*  
**Raschella, A.**, *see* Bouhaf, F., *TMC May 2020 1170-1183*  
**Raynal, M.**, *see* Zhu, W., *TMC July 2020 1544-1554*  
**Redzic, M.D.**, Laoudias, C., and Kyriakides, I., Image and WLAN Bimodal Integration for Indoor User Localization; *TMC May 2020 1109-1122*  
**Reed, M.C.**, *see* Kaneva, K., *TMC Feb. 2020 276-287*  
**Ren, B.**, *see* Chen, Y., *TMC Nov. 2020 2684-2698*  
**Ren, F.**, *see* Zhang, T., *TMC July 2020 1715-1730*  
**Ren, J.**, *see* Zhang, D., *TMC April 2020 880-893*  
**Ren, Y.**, Wang, C., Chen, Y., Chuah, M.C., and Yang, J., Signature Verification Using Critical Segments for Securing Mobile Transactions; *TMC March 2020 724-739*  
**Ren, Y.**, *see* Du, J., *TMC May 2020 1040-1055*  
**Rezvani, S.**, Mokari, N., Javan, M.R., and Jorswieck, E.A., Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets; *TMC Feb. 2020 331-346*  
**Ristaniemi, T.**, *see* Chang, Z., *TMC Jan. 2020 103-115*  
**Rodriguez, J.**, *see* Sucasas, V., *TMC April 2020 752-768*  
**Rossi, M.**, *see* Scalabrin, M., *TMC May 2020 1138-1155*  
**Roy, A.**, Borkar, V., Chaporkar, P., and Karandikar, A., Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet; *TMC Feb. 2020 376-389*  
**Ruan, N.**, *see* Meng, Y., *TMC Feb. 2020 432-449*  
**Ruby, R.**, *see* Chen, W., *TMC Nov. 2020 2520-2532*  
**Ryder, B.G.**, *see* Elish, K.O., *TMC Jan. 2020 90-102*

## S

**Saad, W.**, *see* Ndikumana, A., *TMC June 2020 1359-1374*

**Saeedi, R.**, and Gebremedhin, A.H., A Signal-Level Transfer Learning Framework for Autonomous Reconfiguration of Wearable Systems; *TMC March 2020 513-527*  
**Saha, B.K.**, and Misra, S., Mitigating NDN-Based Fake Content Dissemination in Opportunistic Mobile Networks; *TMC June 2020 1375-1386*  
**Saito, H.**, and Kimura, T., Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors; *TMC May 2020 1233-1246*  
**Samet, H.**, *see* Cao, H., *TMC May 2020 1096-1108*  
**Samuylov, A.**, *see* Gapeyenko, M., *TMC Sept. 2020 2221-2233*  
**Sankaranarayanan, J.**, *see* Cao, H., *TMC May 2020 1096-1108*  
**Santi, P.**, *see* Costantino, G., *TMC Oct. 2020 2392-2408*  
**Sarkka, S.**, *see* Yigitler, H., *TMC March 2020 680-696*  
**Sastry, N.**, *see* Ghoreishi, S.E., *TMC May 2020 997-1009*  
**Sawant, S.**, Kumar, R., Hanawal, M.K., and Darak, S.J., Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers; *TMC Nov. 2020 2640-2655*  
**Saxena, D.**, *see* Kulshrestha, T., *TMC March 2020 664-679*  
**Scalabrin, M.**, Bielsa, G., Loch, A., Rossi, M., and Widmer, J., Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces; *TMC May 2020 1138-1155*  
**Schilcher, U.**, Schmidt, J.F., and Bettstetter, C., On Interference Dynamics in Matérn Networks; *TMC July 2020 1677-1688*  
**Schilcher, U.**, Schmidt, J.F., Atiq, M.K., and Bettstetter, C., Autocorrelation and Coherence Time of Interference in Poisson Networks; *TMC July 2020 1506-1518*  
**Schmidt, J.F.**, *see* Schilcher, U., *TMC July 2020 1677-1688*  
**Schmidt, J.F.**, *see* Schilcher, U., *TMC July 2020 1506-1518*  
**Schurmann, D.**, *see* Bruschi, A., *TMC March 2020 697-710*  
**Sciancalepore, V.**, *see* Bega, D., *TMC March 2020 498-512*  
**Sen, S.**, *see* Qin, Y., *TMC Nov. 2020 2505-2519*  
**Seo, J.**, *see* Kwon, D., *TMC June 2020 1434-1447*  
**Seo, J.**, *see* Toor, W.T., *TMC Dec. 2020 2863-2873*  
**Seo, S.**, *see* Won, J., *TMC May 2020 1023-1039*  
**Seyedbrahimi, M.**, *see* Bouhaf, F., *TMC May 2020 1170-1183*  
**Shah, V.K.**, *see* Bhattacharjee, S., *TMC Jan. 2020 200-216*  
**Shangguan, L.**, *see* Wang, G., *TMC Jan. 2020 74-89*  
**Shao, S.**, Khreishah, A., and Khalil, I., Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection; *TMC April 2020 836-851*  
**Shao, W.**, *see* Wang, Y., *TMC Nov. 2020 2714-2730*  
**Shao, Z.**, *see* Zhu, T., *TMC Feb. 2020 466-483*  
**Shen, K.**, *see* Zhu, M., *TMC March 2020 612-623*  
**Shen, W.**, *see* Li, L., *TMC Feb. 2020 419-431*  
**Shen, X.**, *see* Ni, J., *TMC June 2020 1317-1331*  
**Shen, X.**, *see* Huang, M., *TMC Nov. 2020 2699-2713*  
**Sheng, J.**, *see* Liu, F., *TMC Oct. 2020 2330-2343*  
**Sheng, Z.**, *see* Tian, D., *TMC April 2020 803-820*  
**Sheng, Z.**, *see* Zhou, J., *TMC May 2020 1216-1232*  
**Shi, Q.**, *see* Bouhaf, F., *TMC May 2020 1170-1183*  
**Shi, X.**, *see* Yang, G., *TMC Sept. 2020 2028-2043*  
**Shi, Z.**, *see* Zhang, Z., *TMC Aug. 2020 1760-1774*  
**Shi, Z.**, *see* Yang, G., *TMC Sept. 2020 2028-2043*  
**Shin, K.G.**, *see* Khoshkholgh, M.G., *TMC Sept. 2020 2044-2061*  
**Shou, B.**, *see* Yu, H., *TMC June 2020 1420-1433*  
**Shu, R.**, *see* Zhang, T., *TMC July 2020 1715-1730*  
**Shu, Y.**, *see* Zhang, Z., *TMC Aug. 2020 1760-1774*  
**Sigg, S.**, *see* Bruschi, A., *TMC March 2020 697-710*  
**Sikdar, B.**, *see* Lakshmi, L.R., *TMC Nov. 2020 2562-2580*  
**Sikder, A.K.**, Aksu, H., and Uluagac, A.S., A Context-Aware Framework for Detecting Sensor-Based Threats on Smart Devices; *TMC Feb. 2020 245-261*  
**Singh, S.**, *see* Gapeyenko, M., *TMC Sept. 2020 2221-2233*  
**Sommer, P.**, Geissdoerfer, K., Jurdak, R., Kusy, B., Liu, J., Zhao, K., McKeown, A., and Westcott, D., Energy- and Mobility-Aware Scheduling for Perpetual Trajectory Tracking; *TMC March 2020 566-580*  
**Song, C.**, *see* Lin, F., *TMC Dec. 2020 2774-2792*  
**Song, H.**, *see* Kim, D., *TMC Nov. 2020 2609-2622*

- Song, J.**, *see* Min, C., *TMC June 2020 1448-1464*
- Song, M.**, *see* Paul, P., *TMC July 2020 1519-1531*
- Song, S.**, Lee, C., Cho, H., Lim, G., and Chung, J., Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks; *TMC May 2020 1072-1083*
- Song, X.**, *see* Huang, Y., *TMC April 2020 852-864*
- Song, Y.**, and Kong, P., Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology; *TMC July 2020 1689-1701*
- Sooriyabandara, M.**, *see* Jones, W., *TMC Feb. 2020 262-275*
- Sorour, S.**, *see* Al-Fuqaha, A., *TMC Feb. 2020 484-496*
- Sorour, S.**, *see* Kaneva, K., *TMC Feb. 2020 276-287*
- Souza, C.**, *see* Vegni, A.M., *TMC July 2020 1570-1585*
- Spyropoulos, T.**, *see* Vigneri, L., *TMC Sept. 2020 2174-2188*
- Srinivasan, M.**, and Murthy, C.S.R., Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach; *TMC June 2020 1299-1316*
- Su, L.**, *see* Tu, Z., *TMC Nov. 2020 2670-2683*
- Su, X.**, *see* Chen, Y., *TMC Dec. 2020 2891-2902*
- Su, Z.**, *see* Yi, C., *TMC Jan. 2020 29-43*
- Sucasas, V.**, Mantas, G., Bastos, J., Damiao, F., and Rodriguez, J., A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing; *TMC April 2020 752-768*
- Suh, Y.**, *see* Park, Y.D., *TMC Oct. 2020 2299-2315*
- Sun, L.**, *see* Lai, Z., *TMC July 2020 1586-1602*
- Sung, D.K.**, *see* Zhang, X., *TMC March 2020 711-723*
- Sutton, G.J.**, Liu, R.P., and Guo, Y.J., Coexistence Performance and Limits of Frame-Based Listen-Before-Talk; *TMC May 2020 1084-1095*

## T

- Talak, R.**, Karaman, S., and Modiano, E., Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks; *TMC Sept. 2020 1998-2009*
- Taleb, T.**, *see* Prados-Garzon, J., *TMC Jan. 2020 1-14*
- Taleb, T.**, Frangoudis, P.A., Benkacem, I., and Ksentini, A., CDN Slicing over a Multi-Domain Edge Cloud; *TMC Sept. 2020 2010-2027*
- Taleb, T.**, *see* Addad, R.A., *TMC May 2020 1156-1169*
- Taleb, T.**, *see* Afolabi, I., *TMC Nov. 2020 2594-2608*
- Tan, L.**, *see* Zhang, D., *TMC April 2020 880-893*
- Tang, A.**, *see* Xie, D., *TMC Oct. 2020 2264-2277*
- Tang, B.**, *see* Qu, Z., *TMC Feb. 2020 288-299*
- Tang, B.**, *see* Wang, R., *TMC Dec. 2020 2933-2945*
- Tang, F.**, *see* Liu, J., *TMC Oct. 2020 2358-2373*
- Tang, G.**, *see* Chen, Y., *TMC Nov. 2020 2684-2698*
- Tang, J.**, *see* Liu, C.H., *TMC June 2020 1274-1285*
- Tang, J.**, *see* Zhan, Y., *TMC Oct. 2020 2316-2329*
- Tang, S.**, *see* Dai, H., *TMC Jan. 2020 44-59*
- Tang, S.**, *see* Qu, Y., *TMC Jan. 2020 188-199*
- Tang, S.**, *see* Zheng, Z., *TMC April 2020 769-787*
- Tao, L.**, *see* Zhang, X., *TMC March 2020 711-723*
- Tapparello, C.**, *see* Funai, C., *TMC Jan. 2020 60-73*
- Teymoori, P.**, *see* Hekmati, A., *TMC Sept. 2020 2160-2173*
- Theocharides, T.**, *see* Papaioannou, S., *TMC Oct. 2020 2374-2391*
- Tian, C.**, *see* Dai, H., *TMC Jan. 2020 44-59*
- Tian, D.**, Zhou, J., Wang, Y., Sheng, Z., Duan, X., and Leung, V.C., Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach; *TMC April 2020 803-820*
- Tian, D.**, *see* Zhou, J., *TMC May 2020 1216-1232*
- Tian, X.**, *see* Wang, X., *TMC Feb. 2020 362-375*
- Tian, X.**, Wu, X., Li, H., and Wang, X., RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach; *TMC Feb. 2020 450-465*
- Todd, T.D.**, *see* Hekmati, A., *TMC Sept. 2020 2160-2173*
- Tolosana, R.**, Vera-Rodriguez, R., and Fierrez, J., BioTouchPass: Handwritten Passwords for Touchscreen Biometrics; *TMC July 2020 1532-1543*
- Toor, W.T.**, Seo, J., and Jin, H., Practical Splitting Algorithm for Multi-Channel Slotted Random Access Systems; *TMC Dec. 2020 2863-2873*

- Toorchi, N.**, Hu, F., Pudlewski, S., Bentley, E., and Kumar, S., Volcano Routing: A Multi-Pipe High-Throughput Routing Protocol with Hole Avoidance for Multi-Beam Directional Mesh Networks; *TMC Dec. 2020 2981-2996*
- Tran, J.A.**, *see* Ghosh, P., *TMC June 2020 1260-1273*
- Tran, N.H.**, *see* Ndikumana, A., *TMC June 2020 1359-1374*
- Tu, Z.**, Li, Y., Hui, P., Su, L., and Jin, D., Personalized Mobile App Recommendation by Learning User's Interest from Social Media; *TMC Nov. 2020 2670-2683*

## U

- Uluagac, A.S.**, *see* Sikder, A.K., *TMC Feb. 2020 245-261*
- Unde, A.S.**, P. Pattathil, D., Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation; *TMC Oct. 2020 2250-2263*

## V

- Valls, V.**, *see* Diez, L., *TMC March 2020 624-639*
- Vegni, A.M.**, Souza, C., Loscri, V., Hernandez-Orallo, E., and Manzoni, P., Data Transmissions Using Hub Nodes in Vehicular Social Networks; *TMC July 2020 1570-1585*
- Vera-Rodriguez, R.**, *see* Tolosana, R., *TMC July 2020 1532-1543*
- Vigneri, L.**, Spyropoulos, T., and Barakat, C., Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud; *TMC Sept. 2020 2174-2188*
- Voicu, R.C.**, *see* Abbasi, H.I., *TMC Oct. 2020 2461-2474*

## W

- Wan, P.**, *see* Zhang, D., *TMC April 2020 880-893*
- Wan, W.**, *see* Liu, K., *TMC June 2020 1401-1419*
- Wang, B.**, *see* Qin, Y., *TMC Nov. 2020 2505-2519*
- Wang, C.**, *see* Ren, Y., *TMC March 2020 724-739*
- Wang, C.**, *see* Hung, Y., *TMC April 2020 922-934*
- Wang, C.**, Xie, L., Wang, W., Chen, Y., Xue, T., and Lu, S., Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems; *TMC May 2020 1200-1215*
- Wang, F.**, *see* Wang, J., *TMC March 2020 598-611*
- Wang, G.**, Qian, C., Shangguan, L., Ding, H., Han, J., Cui, K., Xi, W., and Zhao, J., HMO: Ordering RFID Tags with Static Devices in Mobile Environments; *TMC Jan. 2020 74-89*
- Wang, J.**, Wang, F., Wang, Y., Wang, L., Qiu, Z., Zhang, D., Guo, B., and Lv, Q., HyTasker: Hybrid Task Allocation in Mobile Crowd Sensing; *TMC March 2020 598-611*
- Wang, J.**, Liu, K., Li, B., Liu, T., Li, R., and Han, Z., Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks; *TMC Sept. 2020 2062-2075*
- Wang, J.**, *see* Guo, S., *TMC Sept. 2020 2202-2220*
- Wang, J.**, *see* Pan, Y., *TMC Nov. 2020 2489-2504*
- Wang, J.**, Rao, K., and Ye, H., An Application-Specific Approach to Energy Optimization on Android Mobile Devices; *TMC July 2020 1492-1505*
- Wang, K.**, *see* Yu, J., *TMC Jan. 2020 130-141*
- Wang, K.**, *see* Huang, H., *TMC Dec. 2020 2743-2760*
- Wang, L.**, *see* Wang, J., *TMC March 2020 598-611*
- Wang, L.**, *see* Yu, S., *TMC June 2020 1247-1259*
- Wang, L.**, *see* Chen, W., *TMC Nov. 2020 2520-2532*
- Wang, L.**, *see* Wang, R., *TMC Dec. 2020 2933-2945*
- Wang, Q.**, *see* Wu, H., *TMC Aug. 2020 1956-1970*
- Wang, R.**, Wang, Z., Tang, B., Zhao, L., and Wang, L., SmartPI: Understanding Permission Implications of Android Apps from User Reviews; *TMC Dec. 2020 2933-2945*
- Wang, W.**, *see* Wang, X., *TMC Aug. 2020 1910-1927*
- Wang, W.**, *see* Wang, C., *TMC May 2020 1200-1215*
- Wang, W.**, *see* Liu, X., *TMC May 2020 1184-1199*
- Wang, X.**, Jia, R., Tian, X., Gan, X., and Fu, L., Location-Aware Crowdsensing: Dynamic Task Assignment and Truth Inference; *TMC Feb. 2020 362-375*



Wang, X., *see* Wang, X., *TMC Feb. 2020 362-375*  
 Wang, X., *see* Tian, X., *TMC Feb. 2020 450-465*  
 Wang, X., *see* Brocanelli, M., *TMC March 2020 740-751*  
 Wang, X., Dai, H., Wang, W., Zheng, J., Yu, N., Chen, G., Dou, W., and Wu, X., Practical Heterogeneous Wireless Charger Placement with Obstacles; *TMC Aug. 2020 1910-1927*  
 Wang, X., and Duan, L., Economic Analysis of Rollover and Shared Data Plans; *TMC Sept. 2020 2088-2100*  
 Wang, X., *see* Liu, J., *TMC Oct. 2020 2358-2373*  
 Wang, X., *see* Xie, D., *TMC Oct. 2020 2264-2277*  
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- Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*
- Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F.*, +, *TMC Oct. 2020 2330-2343*

**Audio signal processing**

- Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. *Xu, X.*, +, *TMC April 2020 865-879*
- Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*

**Authentication**

- Exploring a Brain-Based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation. *Lin, F.*, +, *TMC Dec. 2020 2774-2792*

**Authorization**

- BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. *Tolosana, R.*, +, *TMC July 2020 1532-1543*
- Possibility-Based Trust for Mobile Wireless Networks. *Willink, T.J.*, *TMC Aug. 2020 1896-1909*
- Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y.*, +, *TMC Feb. 2020 432-449*
- RiskCog: Unobtrusive Real-Time User Authentication on Mobile Devices in the Wild. *Zhu, T.*, +, *TMC Feb. 2020 466-483*
- Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency. *Jang, H.S.*, +, *TMC Aug. 2020 1984-1997*

**Automobiles**

- Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

**Autonomous aerial vehicles**

- Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning. *Liu, C.H.*, +, *TMC June 2020 1274-1285*
- Spatial and Temporal Management of Cellular HetNets with Multiple Solar Powered Drones. *Alsharafa, A.*, +, *TMC April 2020 954-968*
- Take the Field from Your Smartphone: Leveraging UAVs for Event Filming. *Natalizio, E.*, +, *TMC Aug. 2020 1971-1983*

**Autonomous underwater vehicles**

- A High-Availability Data Collection Scheme based on Multi-AUVs for Underwater Sensor Networks. *Han, G.*, +, *TMC May 2020 1010-1022*
- Probabilistic Spatially-Divided Multiple Access in Underwater Acoustic Sparse Networks. *Rahmati, M.*, +, *TMC Feb. 2020 405-418*

**B****Backscatter**

- Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*

**Bandwidth**

- A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. *Qin, Y.*, +, *TMC Nov. 2020 2505-2519*
- Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

**Batteries**

- PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving. *Lee, J.*, +, *TMC Nov. 2020 2656-2669*

**Bayes methods**

- Jointly-Optimized Searching and Tracking with Random Finite Sets. *Papioannou, S.*, +, *TMC Oct. 2020 2374-2391*
- Never Use Labels: Signal Strength-Based Bayesian Device-Free Localization in Changing Environments. *Hillyard, P.*, +, *TMC April 2020 894-906*
- RSS Models for Respiration Rate Monitoring. *Yigitler, H.*, +, *TMC March 2020 680-696*
- Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*

**Behavioral sciences**

- Exploring the Social Learning of Taxi Drivers in Latent Vehicle-to-Vehicle Networks. *Xu, T.*, +, *TMC Aug. 2020 1804-1817*

**Benchmark testing**

- PPtaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. *Chen, Y.*, +, *TMC Nov. 2020 2684-2698*

**Big Data**

- Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. *Ndikumana, A.*, +, *TMC June 2020 1359-1374*

**Biomedical measurement**

- RSS Models for Respiration Rate Monitoring. *Yigitler, H.*, +, *TMC March 2020 680-696*

**Biometrics (access control)**

- Exploring a Brain-Based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation. *Lin, F.*, +, *TMC Dec. 2020 2774-2792*
- RiskCog: Unobtrusive Real-Time User Authentication on Mobile Devices in the Wild. *Zhu, T.*, +, *TMC Feb. 2020 466-483*

**Bit rate**

- A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. *Qin, Y.*, +, *TMC Nov. 2020 2505-2519*

**Body area networks**

- Performance Analysis of Scheduled Access Mode of the IEEE 802.15.6 MAC Protocol under Non-Ideal Channel Conditions. *Manna, T.*, +, *TMC April 2020 935-953*

**Bridges (structures)**

- Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*

**Broadband networks**

- A Complete LTE Mathematical Framework for the Network Slice Planning of the EPC. *Prados-Garzon, J.*, +, *TMC Jan. 2020 1-14*

**Broadcast channels**

- Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks. *Talak, R.*, +, *TMC Sept. 2020 1998-2009*

**Broadcast communication**

- Data Transmissions Using Hub Nodes in Vehicular Social Networks. *Vegni, A.M.*, +, *TMC July 2020 1570-1585*
- Towards Fast and Reliable Multihop Routing in VANETs. *Abbasi, H.I.*, +, *TMC Oct. 2020 2461-2474*

**Buffer storage**

- Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. *Hsu, Y.*, +, *TMC Dec. 2020 2903-2915*

**Business**

- Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners. *Kim, D.*, +, *TMC Nov. 2020 2609-2622*

**Business data processing**

- ROD-Revenue: Seeking Strategies Analysis and Revenue Prediction in Ride-on-Demand Service Using Multi-Source Urban Data. *Guo, S.*, +, *TMC Sept. 2020 2202-2220*

## C

**Cache storage**

- A Cost-Driven Approach to Caching-as-a-Service in Cloud-Based 5G Mobile Networks. *Ghoreishi, S.E.*, +, *TMC May 2020 997-1009*
- Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*
- Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks. *Jiang, Y.*, +, *TMC March 2020 540-551*
- Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*
- Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*
- Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*
- Popularity-Aware Caching Increases the Capacity of Wireless Networks. *Qiu, L.*, +, *TMC Jan. 2020 173-187*
- Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L.*, +, *TMC Sept. 2020 2174-2188*
- Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

**Calibration**

- A Low Latency On-Body Typing System through Single Vibration Sensor. *Chen, W.*, +, *TMC Nov. 2020 2520-2532*
- Never Use Labels: Signal Strength-Based Bayesian Device-Free Localization in Changing Environments. *Hillyard, P.*, +, *TMC April 2020 894-906*

**Cameras**

- Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S.*, +, *TMC Oct. 2020 2250-2263*
- Composite Amplitude-Shift Keying for Effective LED-Camera VLC. *Yang, Y.*, +, *TMC March 2020 528-539*
- High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*
- On Detecting Hidden Wireless Cameras: A Traffic Pattern-based Approach. *Cheng, Y.*, +, *TMC April 2020 907-921*
- Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

**Carrier sense multiple access**

- A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. *Jones, W.*, +, *TMC Feb. 2020 262-275*
- Hidden-Node Problem in Full-Duplex Enabled CSMA Networks. *Liu, S.*, +, *TMC Feb. 2020 347-361*
- On Interference Dynamics in Matérn Networks. *Schilcher, U.*, +, *TMC July 2020 1677-1688*

**Cellular networks**

- A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. *Qin, Y.*, +, *TMC Nov. 2020 2505-2519*

**Cellular radio**

- A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*
- A Seamless Mobility Management Protocol in 5G Locator Identifier Split Dense Small Cells. *Fafolahan, E.M.O.*, +, *TMC Aug. 2020 1745-1759*
- Auction-Based Data Transaction in Mobile Networks: Data Allocation Design and Performance Analysis. *Du, J.*, +, *TMC May 2020 1040-1055*
- Beamforming Oriented Topology Control for mmWave Networks. *Paul, P.*, +, *TMC July 2020 1519-1531*
- Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding. *Kaneva, K.*, +, *TMC Feb. 2020 276-287*
- Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*
- Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E.*, +, *TMC Oct. 2020 2278-2298*

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*

- Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*
- Learning-Based Tracking Area List Management in 4G and 5G Networks. *Moysen, J.*, +, *TMC Aug. 2020 1862-1878*
- Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*
- Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*
- Recycling Random Access Opportunities with Secondary Access Class Barring. *Lee, M.*, +, *TMC Sept. 2020 2189-2201*
- RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*
- Spatial and Temporal Management of Cellular HetNets with Multiple Solar Powered Drones. *Alsharoa, A.*, +, *TMC April 2020 954-968*
- Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*
- Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency. *Jang, H.S.*, +, *TMC Aug. 2020 1984-1997*

**Channel allocation**

Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers. *Sawant, S.*, +, *TMC Nov. 2020 2640-2655*

**Channel capacity**

- Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*
- Per-Flow Radio Resource Management to Mitigate Interference in Dense IEEE 802.11 Wireless LANs. *Bouhafs, F.*, +, *TMC May 2020 1170-1183*

**Channel coding**

- Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*
- Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks. *Feng, B.*, +, *TMC Oct. 2020 2475-2488*

**Channel estimation**

Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers. *Sawant, S.*, +, *TMC Nov. 2020 2640-2655*

**Cloud computing**

- A Cost-Driven Approach to Caching-as-a-Service in Cloud-Based 5G Mobile Networks. *Ghoreishi, S.E.*, +, *TMC May 2020 997-1009*
- A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*
- A Socially-Aware Hybrid Computation Offloading Framework for Multi-Access Edge Computing. *Yu, S.*, +, *TMC June 2020 1247-1259*
- CDN Slicing over a Multi-Domain Edge Cloud. *Taleb, T.*, +, *TMC Sept. 2020 2010-2027*
- Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*
- Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters. *Huang, H.*, +, *TMC Dec. 2020 2743-2760*
- DeepWear: Adaptive Local Offloading for On-Wearable Deep Learning. *Xu, M.*, +, *TMC Feb. 2020 314-330*
- Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J.*, +, *TMC Sept. 2020 2062-2075*
- Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. *Ndikumana, A.*, +, *TMC June 2020 1359-1374*
- Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*
- Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y.*, +, *TMC Dec. 2020 2833-2849*
- Offloading Computations to Mobile Devices and Cloudlets via an Upgraded NFC Communication Protocol. *Chatzopoulos, D.*, +, *TMC March 2020 640-653*
- Optimal Mobile Computation Offloading with Hard Deadline Constraints. *Hekmati, A.*, +, *TMC Sept. 2020 2160-2173*

- Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y., +, TMC April 2020 922-934*
- Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L., +, TMC Sept. 2020 2174-2188*
- Real-Time Crowd Monitoring Using Seamless Indoor-Outdoor Localization. *Kulshrestha, T., +, TMC March 2020 664-679*
- Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L., +, TMC Feb. 2020 419-431*
- Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. *Huang, M., +, TMC Nov. 2020 2699-2713*
- Towards A Personal Mobile Cloud via Generic Device Interconnections. *Li, Y., +, TMC Dec. 2020 2965-2980*
- Cognitive radio**
- Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D., +, TMC April 2020 803-820*
- DPAvatar: A Real-Time Location Protection Framework for Incumbent Users in Cognitive Radio Networks. *Liu, J., +, TMC March 2020 552-565*
- Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F., +, TMC Oct. 2020 2330-2343*
- Collaboration**
- A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. *Pan, Y., +, TMC Nov. 2020 2489-2504*
- Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y., +, TMC Dec. 2020 2833-2849*
- Complexity theory**
- Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac. *Kampeas, J., +, TMC Nov. 2020 2548-2561*
- Multi-Seed Group Labeling in RFID Systems. *Yu, J., +, TMC Dec. 2020 2850-2862*
- Compressed sensing**
- Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S., +, TMC Oct. 2020 2250-2263*
- Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F., +, TMC Oct. 2020 2330-2343*
- Computational complexity**
- Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding. *Kaneva, K., +, TMC Feb. 2020 276-287*
- CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. *Dai, H., +, TMC Jan. 2020 44-59*
- Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z., +, TMC Feb. 2020 288-299*
- Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E., +, TMC Oct. 2020 2278-2298*
- Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks. *Huang, L., +, TMC Nov. 2020 2581-2593*
- Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J., +, TMC Sept. 2020 2062-2075*
- Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X., +, TMC June 2020 1332-1345*
- Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F., +, TMC Oct. 2020 2330-2343*
- Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A., +, TMC Feb. 2020 376-389*
- Optimized Preference-Aware Multi-Path Video Streaming with Scalable Video Coding. *Elgabli, A., +, TMC Jan. 2020 159-172*
- Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E., +, TMC Oct. 2020 2409-2428*
- Profit Maximization for Sponsored Data in Wireless Video Transmission Systems. *Ji, W., +, TMC Aug. 2020 1928-1942*
- Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A., +, TMC Oct. 2020 2445-2460*
- Severity-Based Prioritized Processing of Packets with Application in VANETs. *Al-Fuqaha, A., +, TMC Feb. 2020 484-496*
- Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S., +, TMC Sept. 2020 2234-2249*
- Computational geometry**
- Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H., +, TMC May 2020 1233-1246*
- Computational modeling**
- Adaptive and Blind Regression for Mobile Crowd Sensing. *Chang, S., +, TMC Nov. 2020 2533-2547*
- Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners. *Kim, D., +, TMC Nov. 2020 2609-2622*
- FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks. *Liu, P., +, TMC Nov. 2020 2623-2639*
- Computer architecture**
- Dynamic Resource Provisioning of a Scalable E2E Network Slicing Orchestration System. *Afolabi, I., +, TMC Nov. 2020 2594-2608*
- Preserving Honest/Dishonest Users' Operational Privacy with Blind Interference Calculation in Spectrum Sharing System. *Cheng, Q., +, TMC Dec. 2020 2874-2890*
- Computer centers**
- Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. *Ndikumana, A., +, TMC June 2020 1359-1374*
- Computer crime**
- Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation. *Luo, L., +, TMC Dec. 2020 2946-2964*
- Computer network security**
- Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y., +, TMC Feb. 2020 432-449*
- Uncoordinated Pseudonym Changes for Privacy Preserving in Distributed Networks. *Liu, Z., +, TMC June 2020 1465-1477*
- Computer science**
- Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation. *Luo, L., +, TMC Dec. 2020 2946-2964*
- Concave programming**
- Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E., +, TMC Oct. 2020 2278-2298*
- Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. *Ndikumana, A., +, TMC June 2020 1359-1374*
- Optimized Preference-Aware Multi-Path Video Streaming with Scalable Video Coding. *Elgabli, A., +, TMC Jan. 2020 159-172*
- Concurrency control**
- Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. *Brocanelli, M., +, TMC March 2020 740-751*
- Condition monitoring**
- Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D., +, TMC April 2020 788-802*
- Contracts**
- Multi-Cap Optimization for Wireless Data Plans with Time Flexibility. *Wang, Z., +, TMC Sept. 2020 2145-2159*
- Control engineering computing**
- A Secure Shuffling Mechanism for White-Box Attack-Resistant Unmanned Vehicles. *Won, J., +, TMC May 2020 1023-1039*
- Exploring the Social Learning of Taxi Drivers in Latent Vehicle-to-Vehicle Networks. *Xu, T., +, TMC Aug. 2020 1804-1817*
- Control systems**
- Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L., TMC Dec. 2020 2793-2803*
- Convergence**
- Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S., +, TMC Dec. 2020 2761-2773*
- Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L., TMC Dec. 2020 2793-2803*



**Convex programming**

- Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E.*, +, *TMC Oct. 2020 2278-2298*
- Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J.*, +, *TMC Sept. 2020 2062-2075*
- Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

**Convolutional neural nets**

- Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

**Cooperative communication**

- Computational Offloading for Energy Constrained Devices in Multi-Hop Cooperative Networks. *Funai, C.*, +, *TMC Jan. 2020 60-73*
- Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*
- Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*

**Correlation methods**

- Personalized Mobile App Recommendation by Learning User's Interest from Social Media. *Tu, Z.*, +, *TMC Nov. 2020 2670-2683*
- Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M.*, +, *TMC Sept. 2020 2221-2233*

**Crowdsourcing**

- A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing. *Sucasas, V.*, +, *TMC April 2020 752-768*
- ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. *Zheng, Z.*, +, *TMC April 2020 769-787*
- iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*
- Towards Scalable Indoor Map Construction and Refinement using Acoustics on Smartphones. *Zhou, B.*, +, *TMC Jan. 2020 217-230*

**Cryptographic protocols**

- Security Properties of Gait for Mobile Device Pairing. *Brusch, A.*, +, *TMC March 2020 697-710*

**Cryptography**

- aLeak: Context-Free Side-Channel from Your Smart Watch Leaks Your Typing Privacy. *Liu, Y.*, +, *TMC Aug. 2020 1775-1788*
- A Secure Shuffling Mechanism for White-Box Attack-Resistant Unmanned Vehicles. *Won, J.*, +, *TMC May 2020 1023-1039*
- On Detecting Hidden Wireless Cameras: A Traffic Pattern-based Approach. *Cheng, Y.*, +, *TMC April 2020 907-921*
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**D****Data analysis**

- iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*
- ROD-Revenue: Seeking Strategies Analysis and Revenue Prediction in Ride-on-Demand Service Using Multi-Source Urban Data. *Guo, S.*, +, *TMC Sept. 2020 2202-2220*

**Data communication**

- Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*
- Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

**Data compression**

- Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S.*, +, *TMC Oct. 2020 2250-2263*
- Furion: Engineering High-Quality Immersive Virtual Reality on Today's Mobile Devices. *Lai, Z.*, +, *TMC July 2020 1586-1602*

**Data dissemination**

- Data Transmissions Using Hub Nodes in Vehicular Social Networks. *Vegni, A.M.*, +, *TMC July 2020 1570-1585*

- Mitigating NDN-Based Fake Content Dissemination in Opportunistic Mobile Networks. *Saha, B.K.*, +, *TMC June 2020 1375-1386*

**Data handling**

- Economic Analysis of Rollover and Shared Data Plans. *Wang, X.*, +, *TMC Sept. 2020 2088-2100*

**Data mining**

- Exploring the Social Learning of Taxi Drivers in Latent Vehicle-to-Vehicle Networks. *Xu, T.*, +, *TMC Aug. 2020 1804-1817*

**Data models**

- Adaptive and Blind Regression for Mobile Crowd Sensing. *Chang, S.*, +, *TMC Nov. 2020 2533-2547*

**Data privacy**

- aLeak: Context-Free Side-Channel from Your Smart Watch Leaks Your Typing Privacy. *Liu, Y.*, +, *TMC Aug. 2020 1775-1788*
- A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing. *Sucasas, V.*, +, *TMC April 2020 752-768*
- DeepWear: Adaptive Local Offloading for On-Wearable Deep Learning. *Xu, M.*, +, *TMC Feb. 2020 314-330*
- DPAvatar: A Real-Time Location Protection Framework for Incumbent Users in Cognitive Radio Networks. *Liu, J.*, +, *TMC March 2020 552-565*
- Enabling Strong Privacy Preservation and Accurate Task Allocation for Mobile Crowdsensing. *Ni, J.*, +, *TMC June 2020 1317-1331*
- Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*
- Personalized Mobile App Recommendation by Learning User's Interest from Social Media. *Tu, Z.*, +, *TMC Nov. 2020 2670-2683*
- Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem. *Liu, X.*, +, *TMC May 2020 1184-1199*
- RiskCog: Unobtrusive Real-Time User Authentication on Mobile Devices in the Wild. *Zhu, T.*, +, *TMC Feb. 2020 466-483*
- Uncoordinated Pseudonym Changes for Privacy Preserving in Distributed Networks. *Liu, Z.*, +, *TMC June 2020 1465-1477*

**Decision making**

- QnQ: Quality and Quantity Based Unified Approach for Secure and Trustworthy Mobile Crowdsensing. *Bhattacharjee, S.*, +, *TMC Jan. 2020 200-216*
- A Secure Shuffling Mechanism for White-Box Attack-Resistant Unmanned Vehicles. *Won, J.*, +, *TMC May 2020 1023-1039*
- Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. *Cao, H.*, +, *TMC May 2020 1096-1108*
- Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*
- Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

**Decision theory**

- Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*
- Possibility-Based Trust for Mobile Wireless Networks. *Willink, T.J.*, *TMC Aug. 2020 1896-1909*

**Decoding**

- Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*

**Delay tolerant networks**

- Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*

**Delays**

- Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J.*, +, *TMC Sept. 2020 2062-2075*
- Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*
- Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. *Song, Y.*, +, *TMC July 2020 1689-1701*
- Practical Splitting Algorithm for Multi-Channel Slotted Random Access Systems. *Toor, W.T.*, +, *TMC Dec. 2020 2863-2873*

**Densification**

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*

**Device-to-device communication**

A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. *Pan, Y.*, +, *TMC Nov. 2020 2489-2504*

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

**DiffServ networks**

Severity-Based Prioritized Processing of Packets with Application in VANETs. *Al-Fuqaha, A.*, +, *TMC Feb. 2020 484-496*

**Digital signatures**

A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing. *Sucasas, V.*, +, *TMC April 2020 752-768*

Signature Verification Using Critical Segments for Securing Mobile Transactions. *Ren, Y.*, +, *TMC March 2020 724-739*

**Digital video broadcasting**

Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*

Profit Maximization for Sponsored Data in Wireless Video Transmission Systems. *Ji, W.*, +, *TMC Aug. 2020 1928-1942*

**Direct broadcasting by satellite**

Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*

**Direction-of-arrival estimation**

Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H.*, +, *TMC May 2020 1233-1246*

**Directional antennas**

Volcano Routing: A Multi-Pipe High-Throughput Routing Protocol with Hole Avoidance for Multi-Beam Directional Mesh Networks. *Toorchi, N.*, +, *TMC Dec. 2020 2981-2996*

**Directive antennas**

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*

**Diseases**

TagBreathe: Monitor Breathing with Commodity RFID Systems. *Wang, Y.*, +, *TMC April 2020 969-981*

**Distance measurement**

Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H.*, +, *TMC May 2020 1233-1246*

**Distributed algorithms**

Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X.*, +, *TMC June 2020 1332-1345*

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*

Joint Client Association and Random Access Control for MU-MIMO WLANs. *Wong, W.*, +, *TMC Dec. 2020 2818-2832*

Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers. *Sawant, S.*, +, *TMC Nov. 2020 2640-2655*

**Distributed control**

Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning. *Liu, C.H.*, +, *TMC June 2020 1274-1285*

**Distributed processing**

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*

Near-Optimal and Truthful Online Auction for Computation Offloading in Green Edge-Computing Systems. *Zhang, D.*, +, *TMC April 2020 880-893*

**Diversity reception**

Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*

Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*

Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*

**Downlink**

Secure TDD MIMO Networks Against Training Sequence Based Eavesdropping Attack. *Mao, Y.*, +, *TMC Dec. 2020 2916-2932*

**Driver information systems**

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. *Xu, X.*, +, *TMC April 2020 865-879*

**Dynamic programming**

Location-Aware Crowdsensing: Dynamic Task Assignment and Truth Inference. *Wang, X.*, +, *TMC Feb. 2020 362-375*

Optimal Mobile Computation Offloading with Hard Deadline Constraints. *Hekmati, A.*, +, *TMC Sept. 2020 2160-2173*

**Dynamic scheduling**

Dynamic Resource Provisioning of a Scalable E2E Network Slicing Orchestration System. *Afolabi, I.*, +, *TMC Nov. 2020 2594-2608*

**E****Eavesdropping**

Secure TDD MIMO Networks Against Training Sequence Based Eavesdropping Attack. *Mao, Y.*, +, *TMC Dec. 2020 2916-2932*

**Economics**

Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners. *Kim, D.*, +, *TMC Nov. 2020 2609-2622*

**Edge computing**

Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners. *Kim, D.*, +, *TMC Nov. 2020 2609-2622*

Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y.*, +, *TMC Dec. 2020 2833-2849*

Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. *Huang, M.*, +, *TMC Nov. 2020 2699-2713*

**Electronic commerce**

Near-Optimal and Truthful Online Auction for Computation Offloading in Green Edge-Computing Systems. *Zhang, D.*, +, *TMC April 2020 880-893*

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

PPtaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. *Chen, Y.*, +, *TMC Nov. 2020 2684-2698*

**Electronic data interchange**

ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. *Zheng, Z.*, +, *TMC April 2020 769-787*

**Embedded systems**

PrOS: Light-Weight Privatized Secure OSes in ARM TrustZone. *Kwon, D.*, +, *TMC June 2020 1434-1447*

**Encoding**

Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks. *Jiang, Y.*, +, *TMC March 2020 540-551*

**Energy conservation**

An Application-Specific Approach to Energy Optimization on Android Mobile Devices. *Wang, J.*, +, *TMC July 2020 1492-1505*

Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*

Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X.*, +, *TMC June 2020 1332-1345*

Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F.*, +, *TMC Oct. 2020 2330-2343*

Optimized Neighbor Discovery for Opportunistic Networks of Energy Constrained IoT Devices. *Loreti, P.*, +, *TMC June 2020 1387-1400*

Performance Analysis of Scheduled Access Mode of the IEEE 802.15.6 MAC Protocol under Non-Ideal Channel Conditions. *Manna, T.*, +, *TMC April 2020 935-953*

Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. *Brocanelli, M.*, +, *TMC March 2020 740-751*

#### Energy consumption

PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving. *Lee, J.*, +, *TMC Nov. 2020 2656-2669*

Spatial and Temporal Management of Cellular HetNets with Multiple Solar Powered Drones. *Alsharoa, A.*, +, *TMC April 2020 954-968*

Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. *Brocanelli, M.*, +, *TMC March 2020 740-751*

#### Energy harvesting

Energy- and Mobility-Aware Scheduling for Perpetual Trajectory Tracking. *Sommer, P.*, +, *TMC March 2020 566-580*

Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L.*, *TMC Dec. 2020 2793-2803*

#### Energy management

Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L.*, *TMC Dec. 2020 2793-2803*

#### Entropy

Security Properties of Gait for Mobile Device Pairing. *Brusch, A.*, +, *TMC March 2020 697-710*

#### Environmental factors

Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*

#### Error statistics

Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. *Song, Y.*, +, *TMC July 2020 1689-1701*

Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks. *Feng, B.*, +, *TMC Oct. 2020 2475-2488*

#### Estimation

Personalized Mobile App Recommendation by Learning User's Interest from Social Media. *Tu, Z.*, +, *TMC Nov. 2020 2670-2683*

Residual Carrier Frequency Offset Estimation and Compensation for Commodity WiFi. *Chen, Y.*, +, *TMC Dec. 2020 2891-2902*

Secure TDD MIMO Networks Against Training Sequence Based Eavesdropping Attack. *Mao, Y.*, +, *TMC Dec. 2020 2916-2932*

Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

#### Evolutionary computation

Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

## F

#### Facility location

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*

#### Fading channels

Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks. *Huang, L.*, +, *TMC Nov. 2020 2581-2593*

Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*

#### FCC

Preserving Honest/Dishonest Users' Operational Privacy with Blind Interference Calculation in Spectrum Sharing System. *Cheng, Q.*, +, *TMC Dec. 2020 2874-2890*

#### Feature extraction

A Low Latency On-Body Typing System through Single Vibration Sensor. *Chen, W.*, +, *TMC Nov. 2020 2520-2532*

BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. *Tolosana, R.*, +, *TMC July 2020 1532-1543*

Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*

ROD-Revenue: Seeking Strategies Analysis and Revenue Prediction in Ride-on-Demand Service Using Multi-Source Urban Data. *Guo, S.*, +, *TMC Sept. 2020 2202-2220*

#### Femtocellular radio

Inter-Femtocell Interference Identification and Resource Management. *Liu, C.*, +, *TMC Jan. 2020 116-129*

#### Filtering theory

Jointly-Optimized Searching and Tracking with Random Finite Sets. *Papaiannou, S.*, +, *TMC Oct. 2020 2374-2391*

#### Fourier transforms

Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F.*, +, *TMC Oct. 2020 2330-2343*

#### Free-space optical communication

Composite Amplitude-Shift Keying for Effective LED-Camera VLC. *Yang, Y.*, +, *TMC March 2020 528-539*

Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. *Shao, S.*, +, *TMC April 2020 836-851*

SmartVLC: Co-Designing Smart Lighting and Communication for Visible Light Networks. *Wu, H.*, +, *TMC Aug. 2020 1956-1970*

#### Frequency division multiple access

Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*

Inter-Femtocell Interference Identification and Resource Management. *Liu, C.*, +, *TMC Jan. 2020 116-129*

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

#### Frequency estimation

RSS Models for Respiration Rate Monitoring. *Yigitler, H.*, +, *TMC March 2020 680-696*

#### Frequency measurement

Residual Carrier Frequency Offset Estimation and Compensation for Commodity WiFi. *Chen, Y.*, +, *TMC Dec. 2020 2891-2902*

#### Fuzzy set theory

Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*

## G

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Security Properties of Gait for Mobile Device Pairing. *Brusch, A.*, +, *TMC March 2020 697-710*

#### Game theory

A Distributed Game Methodology for Crowdsensing in Uncertain Wireless Scenario. *Cao, B.*, +, *TMC Jan. 2020 15-28*

A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*

An Analysis of Service Bundles of Mobile Network Operators with Free Services Included. *Asghari, M.*, +, *TMC Aug. 2020 1789-1803*

Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

Economic Analysis of Rollover and Shared Data Plans. *Wang, X.*, +, *TMC Sept. 2020 2088-2100*

Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach. *Srinivasan, M.*, +, *TMC June 2020 1299-1316*

Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. *Zhan, Y.*, +, *TMC Oct. 2020 2316-2329*

Multi-Cap Optimization for Wireless Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC Sept. 2020 2145-2159*

Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

#### Games

Economics of Fog Computing: Interplay Among Infrastructure and Service Providers, Users, and Edge Resource Owners. *Kim, D.*, +, *TMC Nov. 2020 2609-2622*



**Genetic algorithms**

Ensemble Adaptive Streaming – A New Paradigm to Generate Streaming Algorithms via Specializations. *Zhang, G.*, +, *TMC June 2020 1346-1358*  
 Jointly-Optimized Searching and Tracking with Random Finite Sets. *Papaioannou, S.*, +, *TMC Oct. 2020 2374-2391*

**Geometric programming**

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

**Global Positioning System**

Energy- and Mobility-Aware Scheduling for Perpetual Trajectory Tracking. *Sommer, P.*, +, *TMC March 2020 566-580*  
 Improving Urban Crowd Flow Prediction on Flexible Region Partition. *Wang, X.*, +, *TMC Dec. 2020 2804-2817*  
 Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation. *Luo, L.*, +, *TMC Dec. 2020 2946-2964*  
 Towards A Personal Mobile Cloud via Generic Device Interconnections. *Li, Y.*, +, *TMC Dec. 2020 2965-2980*

**Graph theory**

Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks. *Talak, R.*, +, *TMC Sept. 2020 1998-2009*  
 Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*  
 Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*  
 Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems. *Wang, C.*, +, *TMC May 2020 1200-1215*

**Graphics processing units**

A Secure Shuffling Mechanism for White-Box Attack-Resistant Unmanned Vehicles. *Won, J.*, +, *TMC May 2020 1023-1039*

**Greedy algorithms**

Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J.*, +, *TMC Sept. 2020 2062-2075*  
 Geographical Correlation-Based Data Collection for Sensor-Augmented RFID Systems. *Xie, X.*, +, *TMC Oct. 2020 2344-2357*  
 Practical Heterogeneous Wireless Charger Placement with Obstacles. *Wang, X.*, +, *TMC Aug. 2020 1910-1927*

**H****Handwriting recognition**

BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. *Tolosana, R.*, +, *TMC July 2020 1532-1543*  
 Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*  
 Signature Verification Using Critical Segments for Securing Mobile Transactions. *Ren, Y.*, +, *TMC March 2020 724-739*

**Handwritten character recognition**

BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. *Tolosana, R.*, +, *TMC July 2020 1532-1543*

**Head**

Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

**Heuristic algorithms**

Dynamic Resource Provisioning of a Scalable E2E Network Slicing Orchestration System. *Afolabi, I.*, +, *TMC Nov. 2020 2594-2608*  
 Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L.*, *TMC Dec. 2020 2793-2803*  
 Practical Splitting Algorithm for Multi-Channel Slotted Random Access Systems. *Toor, W.T.*, +, *TMC Dec. 2020 2863-2873*  
 Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. *Huang, M.*, +, *TMC Nov. 2020 2699-2713*

**Hidden Markov models**

Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. *Scalabrin, M.*, +, *TMC May 2020 1138-1155*

**Hypermedia**

Towards Influence of Chunk Size Variation on Video Streaming in Wireless Networks. *Zhang, T.*, +, *TMC July 2020 1715-1730*

**I****IEEE 802.11 Standard**

Adaptive Admission Control for IoT Applications in Home WiFi Networks. *Pokhrel, S.R.*, +, *TMC Dec. 2020 2731-2742*

**Image color analysis**

High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

**Image fusion**

Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*

**Image motion analysis**

Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*

**Image recognition**

A Signal-Level Transfer Learning Framework for Autonomous Reconfiguration of Wearable Systems. *Saeedi, R.*, +, *TMC March 2020 513-527*

**Image representation**

Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. *Cao, H.*, +, *TMC May 2020 1096-1108*

**Image sensors**

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*  
 High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

**Image sequences**

Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S.*, +, *TMC Oct. 2020 2250-2263*  
 FullStop: A Camera-Assisted System for Characterizing Unsafe Bus Stopping. *Bhandari, R.*, +, *TMC Sept. 2020 2116-2128*

**Incentive schemes**

A Distributed Game Methodology for Crowdsensing in Uncertain Wireless Scenario. *Cao, B.*, +, *TMC Jan. 2020 15-28*  
 iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*  
 Incentive Mechanism for Multiple Cooperative Tasks with Compatible Users in Mobile Crowd Sensing via Online Communities. *Xu, J.*, +, *TMC July 2020 1618-1633*  
 Posted Pricing for Chance Constrained Robust Crowdsensing. *Qu, Y.*, +, *TMC Jan. 2020 188-199*

**Indoor navigation**

A Self-Evolving WiFi-based Indoor Navigation System Using Smartphones. *Zhang, Z.*, +, *TMC Aug. 2020 1760-1774*  
 RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*

**Indoor radio**

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*  
 Efficient Indoor Localization via Switched-Beam Antennas. *Zhang, Y.*, +, *TMC Sept. 2020 2101-2115*  
 Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. *Shao, S.*, +, *TMC April 2020 836-851*  
 Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*  
 Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing. *Debatla, S.*, +, *TMC Oct. 2020 2429-2444*  
 Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S.*, +, *TMC Sept. 2020 2234-2249*  
 Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks. *Feng, B.*, +, *TMC Oct. 2020 2475-2488*  
 ViFi: Virtual Fingerprinting WiFi-Based Indoor Positioning via Multi-Wall Multi-Floor Propagation Model. *Caso, G.*, +, *TMC June 2020 1478-1491*  
**Inductive power transmission**  
 CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. *Dai, H.*, +, *TMC Jan. 2020 44-59*

On the Interaction of Charging-Aware Mobility and Wireless Capacity. *Gao, W.*, +, *TMC March 2020 654-663*

#### Inference mechanisms

QnQ: Quality and Quantity Based Unified Approach for Secure and Trustworthy Mobile Crowdsensing. *Bhattacharjee, S.*, +, *TMC Jan. 2020 200-216*

#### Information age

Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. *Hsu, Y.*, +, *TMC Dec. 2020 2903-2915*

#### Integer programming

A Cost-Driven Approach to Caching-as-a-Service in Cloud-Based 5G Mobile Networks. *Ghoreishi, S.E.*, +, *TMC May 2020 997-1009*

Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E.*, +, *TMC Oct. 2020 2278-2298*

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*

Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*

Optimization Model for Cross-Domain Network Slices in 5G Networks. *Addad, R.A.*, +, *TMC May 2020 1156-1169*

Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

Spatial and Temporal Management of Cellular HetNets with Multiple Solar Powered Drones. *Alsharwa, A.*, +, *TMC April 2020 954-968*

#### Interference

Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac. *Kampeas, J.*, +, *TMC Nov. 2020 2548-2561*

Blockage Aware Fair Scheduling with Differentiated Service Support in mmWave WPANs/WLANs. *Lakshmi, L.R.*, +, *TMC Nov. 2020 2562-2580*

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

Joint Client Association and Random Access Control for MU-MIMO WLANs. *Wong, W.*, +, *TMC Dec. 2020 2818-2832*

Preserving Honest/Dishonest Users' Operational Privacy with Blind Interference Calculation in Spectrum Sharing System. *Cheng, Q.*, +, *TMC Dec. 2020 2874-2890*

#### Interference suppression

Inter-Femtocell Interference Identification and Resource Management. *Liu, C.*, +, *TMC Jan. 2020 116-129*

Per-Flow Radio Resource Management to Mitigate Interference in Dense IEEE 802.11 Wireless LANs. *Bouhaf, F.*, +, *TMC May 2020 1170-1183*

Popularity-Aware Caching Increases the Capacity of Wireless Networks. *Qiu, L.*, +, *TMC Jan. 2020 173-187*

#### Internet

DeepWear: Adaptive Local Offloading for On-Wearable Deep Learning. *Xu, M.*, +, *TMC Feb. 2020 314-330*

Economic Analysis of Rollover and Shared Data Plans. *Wang, X.*, +, *TMC Sept. 2020 2088-2100*

Ensemble Adaptive Streaming – A New Paradigm to Generate Streaming Algorithms via Specializations. *Zhang, G.*, +, *TMC June 2020 1346-1358*

Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*

Mitigating NDN-Based Fake Content Dissemination in Opportunistic Mobile Networks. *Saha, B.K.*, +, *TMC June 2020 1375-1386*

Offloading Computations to Mobile Devices and Cloudlets via an Upgraded NFC Communication Protocol. *Chatzopoulos, D.*, +, *TMC March 2020 640-653*

Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*

#### Internet of Things

Adaptive Admission Control for IoT Applications in Home WiFi Networks. *Pokhrel, S.R.*, +, *TMC Dec. 2020 2731-2742*

Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*

Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*

Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. *Shao, S.*, +, *TMC April 2020 836-851*

Near-Optimal and Truthful Online Auction for Computation Offloading in Green Edge-Computing Systems. *Zhang, D.*, +, *TMC April 2020 880-893*

Optimized Neighbor Discovery for Opportunistic Networks of Energy Constrained IoT Devices. *Loreti, P.*, +, *TMC June 2020 1387-1400*

SmartPI: Understanding Permission Implications of Android Apps from User Reviews. *Wang, R.*, +, *TMC Dec. 2020 2933-2945*

Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S.*, +, *TMC Sept. 2020 2234-2249*

Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*

Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency. *Jang, H.S.*, +, *TMC Aug. 2020 1984-1997*

#### Interpolation

WiFi: Virtual Fingerprinting WiFi-Based Indoor Positioning via Multi-Wall Multi-Floor Propagation Model. *Caso, G.*, +, *TMC June 2020 1478-1491*

#### Invasive software

A Context-Aware Framework for Detecting Sensor-Based Threats on Smart Devices. *Sikder, A.K.*, +, *TMC Feb. 2020 245-261*

Identifying Mobile Inter-App Communication Risks. *Elish, K.O.*, +, *TMC Jan. 2020 90-102*

Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y.*, +, *TMC Feb. 2020 432-449*

#### Iterative methods

Computational Offloading for Energy Constrained Devices in Multi-Hop Cooperative Networks. *Funai, C.*, +, *TMC Jan. 2020 60-73*

Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*

Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S.*, +, *TMC Sept. 2020 2234-2249*

## J

#### Jamming

Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*

Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers. *Sawant, S.*, +, *TMC Nov. 2020 2640-2655*

#### Jitter

Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*

## K

#### Kalman filters

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

#### Keyboards

Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

#### Knapsack problems

Severity-Based Prioritized Processing of Packets with Application in VANETs. *Al-Fuqaha, A.*, +, *TMC Feb. 2020 484-496*

#### Knowledge based systems

Razor: Scaling Backend Capacity for Mobile Applications. *Chen, Y.*, +, *TMC July 2020 1702-1714*

#### Knowledge engineering

Learning to Coordinate in a Decentralized Cognitive Radio Network in Presence of Jammers. *Sawant, S.*, +, *TMC Nov. 2020 2640-2655*

## L

#### Labeling

Multi-Seed Group Labeling in RFID Systems. *Yu, J.*, +, *TMC Dec. 2020 2850-2862*

**Learning (artificial intelligence)**

Razor: Scaling Backend Capacity for Mobile Applications. *Chen, Y.*, +, *TMC July 2020 1702-1714*

A Context-Aware Framework for Detecting Sensor-Based Threats on Smart Devices. *Sikder, A.K.*, +, *TMC Feb. 2020 245-261*

A Machine Learning Approach to 5G Infrastructure Market Optimization. *Bega, D.*, +, *TMC March 2020 498-512*

A Signal-Level Transfer Learning Framework for Autonomous Reconfiguration of Wearable Systems. *Saeedi, R.*, +, *TMC March 2020 513-527*

Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning. *Liu, C.H.*, +, *TMC June 2020 1274-1285*

DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks. *Ye, J.*, +, *TMC Sept. 2020 2076-2087*

Ensemble Adaptive Streaming – A New Paradigm to Generate Streaming Algorithms via Specializations. *Zhang, G.*, +, *TMC June 2020 1346-1358*

Exploring the Social Learning of Taxi Drivers in Latent Vehicle-to-Vehicle Networks. *Xu, T.*, +, *TMC Aug. 2020 1804-1817*

Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. *Zhan, Y.*, +, *TMC Oct. 2020 2316-2329*

Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. *Cao, H.*, +, *TMC May 2020 1096-1108*

Learning-Based Tracking Area List Management in 4G and 5G Networks. *Moysen, J.*, +, *TMC Aug. 2020 1862-1878*

Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*

Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. *Scalabrin, M.*, +, *TMC May 2020 1138-1155*

Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*

On Efficiently Monitoring Continuous Aggregate  $k$  Nearest Neighbors in Road Networks. *Miao, X.*, +, *TMC July 2020 1664-1676*

RiskCog: Unobtrusive Real-Time User Authentication on Mobile Devices in the Wild. *Zhu, T.*, +, *TMC Feb. 2020 466-483*

Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*

**Learning systems**

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

**Least squares approximations**

Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H.*, +, *TMC May 2020 1233-1246*

**LED lamps**

Composite Amplitude-Shift Keying for Effective LED-Camera VLC. *Yang, Y.*, +, *TMC March 2020 528-539*

**Light emitting diodes**

High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

SmartVLC: Co-Designing Smart Lighting and Communication for Visible Light Networks. *Wu, H.*, +, *TMC Aug. 2020 1956-1970*

**Light interference**

Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. *Shao, S.*, +, *TMC April 2020 836-851*

**Light sources**

Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. *Shao, S.*, +, *TMC April 2020 836-851*

**Lighting**

SmartVLC: Co-Designing Smart Lighting and Communication for Visible Light Networks. *Wu, H.*, +, *TMC Aug. 2020 1956-1970*

**Linear programming**

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*

HMO: Ordering RFID Tags with Static Devices in Mobile Environments. *Wang, G.*, +, *TMC Jan. 2020 74-89*

Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*

Optimization Model for Cross-Domain Network Slices in 5G Networks. *Addad, R.A.*, +, *TMC May 2020 1156-1169*

Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*

Spatial and Temporal Management of Cellular HetNets with Multiple Solar Powered Drones. *Alsharoa, A.*, +, *TMC April 2020 954-968*

**Linear quadratic Gaussian control**

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

**Linux**

Interactive Context for Mobile OS Resource Management. *Zhu, M.*, +, *TMC March 2020 612-623*

MPWiFi: Synergizing MPTCP Based Simultaneous Multipath Access and WiFi Network Performance. *Palash, M.R.*, +, *TMC Jan. 2020 142-158*

Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*

**Location based services**

Efficient Indoor Localization via Switched-Beam Antennas. *Zhang, Y.*, +, *TMC Sept. 2020 2101-2115*

iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*

Towards Scalable Indoor Map Construction and Refinement using Acoustics on Smartphones. *Zhou, B.*, +, *TMC Jan. 2020 217-230*

**Logistics**

PPTaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. *Chen, Y.*, +, *TMC Nov. 2020 2684-2698*

**Long Term Evolution**

A Complete LTE Mathematical Framework for the Network Slice Planning of the EPC. *Prados-Garzon, J.*, +, *TMC Jan. 2020 1-14*

Coexistence Performance and Limits of Frame-Based Listen-Before-Talk. *Sutton, G.J.*, +, *TMC May 2020 1084-1095*

Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*

RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*

Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency. *Jang, H.S.*, +, *TMC Aug. 2020 1984-1997*

**Low earth orbit satellites**

Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters. *Huang, H.*, +, *TMC Dec. 2020 2743-2760*

**M****Machine learning**

PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving. *Lee, J.*, +, *TMC Nov. 2020 2656-2669*

**Magnetic heads**

Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

**Malware**

SmartPI: Understanding Permission Implications of Android Apps from User Reviews. *Wang, R.*, +, *TMC Dec. 2020 2933-2945*

**Manuals**

Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation. *Luo, L.*, +, *TMC Dec. 2020 2946-2964*

**Markov processes**

A Machine Learning Approach to 5G Infrastructure Market Optimization. *Bega, D.*, +, *TMC March 2020 498-512*



- Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks. *Talak, R., +, TMC Sept. 2020 1998-2009*
- DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks. *Ye, J., +, TMC Sept. 2020 2076-2087*
- Dynamic Channel Bonding in Spatially Distributed High-Density WLANs. *Barrachina-Munoz, S., +, TMC April 2020 821-835*
- Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A., +, TMC Feb. 2020 376-389*
- Optimal Mobile Computation Offloading with Hard Deadline Constraints. *Hekmati, A., +, TMC Sept. 2020 2160-2173*
- Recycling Random Access Opportunities with Secondary Access Class Barring. *Lee, M., +, TMC Sept. 2020 2189-2201*
- Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. *Hsu, Y., +, TMC Dec. 2020 2903-2915*
- Mathematical analysis**
- A Complete LTE Mathematical Framework for the Network Slice Planning of the EPC. *Prados-Garzon, J., +, TMC Jan. 2020 1-14*
- Mathematical model**
- Improving Urban Crowd Flow Prediction on Flexible Region Partition. *Wang, X., +, TMC Dec. 2020 2804-2817*
- Matrix algebra**
- Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S., +, TMC Oct. 2020 2250-2263*
- Measurement**
- FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks. *Liu, P., +, TMC Nov. 2020 2623-2639*
- Media Access Protocol**
- Volcano Routing: A Multi-Pipe High-Throughput Routing Protocol with Hole Avoidance for Multi-Beam Directional Mesh Networks. *Toorchi, N., +, TMC Dec. 2020 2981-2996*
- Memory**
- Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters. *Huang, H., +, TMC Dec. 2020 2743-2760*
- Message authentication**
- BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. *Tolosana, R., +, TMC July 2020 1532-1543*
- RiskCog: Unobtrusive Real-Time User Authentication on Mobile Devices in the Wild. *Zhu, T., +, TMC Feb. 2020 466-483*
- Security Properties of Gait for Mobile Device Pairing. *Brusch, A., +, TMC March 2020 697-710*
- Microphones**
- Towards Scalable Indoor Map Construction and Refinement using Acoustics on Smartphones. *Zhou, B., +, TMC Jan. 2020 217-230*
- Microprocessor chips**
- An Application-Specific Approach to Energy Optimization on Android Mobile Devices. *Wang, J., +, TMC July 2020 1492-1505*
- Middleware**
- Tainting-Assisted and Context-Migrated Symbolic Execution of Android Framework for Vulnerability Discovery and Exploit Generation. *Luo, L., +, TMC Dec. 2020 2946-2964*
- Millimeter wave antennas**
- Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E., +, TMC Oct. 2020 2409-2428*
- Millimeter wave communication**
- Beamforming Oriented Topology Control for mmWave Networks. *Paul, P., +, TMC July 2020 1519-1531*
- Max-Min Fair Resource Allocation in Millimetre-Wave Backhauls. *Li, R., +, TMC Aug. 2020 1879-1895*
- Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F., +, TMC Feb. 2020 390-404*
- Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E., +, TMC Oct. 2020 2409-2428*
- Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M., +, TMC Sept. 2020 2221-2233*
- Millimeter wave propagation**
- Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M., +, TMC Sept. 2020 2221-2233*
- MIMO communication**
- Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac. *Kampeas, J., +, TMC Nov. 2020 2548-2561*
- Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G., +, TMC Sept. 2020 2044-2061*
- Secure TDD MIMO Networks Against Training Sequence Based Eavesdropping Attack. *Mao, Y., +, TMC Dec. 2020 2916-2932*
- Minimax techniques**
- Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S., +, TMC Feb. 2020 331-346*
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- Minimization**
- Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S., +, TMC Feb. 2020 331-346*
- Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. *Ndikumana, A., +, TMC June 2020 1359-1374*
- Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y., +, TMC Dec. 2020 2833-2849*
- Mixture models**
- Never Use Labels: Signal Strength-Based Bayesian Device-Free Localization in Changing Environments. *Hillyard, P., +, TMC April 2020 894-906*
- Mobile ad hoc networks**
- Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X., +, TMC June 2020 1332-1345*
- Possibility-Based Trust for Mobile Wireless Networks. *Willink, T.J., TMC Aug. 2020 1896-1909*
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- Mobile communication**
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- DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks. *Ye, J., +, TMC Sept. 2020 2076-2087*
- Mobile computing**
- QnQ: Quality and Quantity Based Unified Approach for Secure and Trustworthy Mobile Crowdsensing. *Bhattacharjee, S., +, TMC Jan. 2020 200-216*
- aLeak: Context-Free Side-Channel from Your Smart Watch Leaks Your Typing Privacy. *Liu, Y., +, TMC Aug. 2020 1775-1788*
- Razor: Scaling Backend Capacity for Mobile Applications. *Chen, Y., +, TMC July 2020 1702-1714*
- A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. *Pan, Y., +, TMC Nov. 2020 2489-2504*
- A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. *Qin, Y., +, TMC Nov. 2020 2505-2519*
- A Cost-Driven Approach to Caching-as-a-Service in Cloud-Based 5G Mobile Networks. *Ghoreishi, S.E., +, TMC May 2020 997-1009*
- A Distributed Game Methodology for Crowdsensing in Uncertain Wireless Scenario. *Cao, B., +, TMC Jan. 2020 15-28*
- A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C., +, TMC Jan. 2020 29-43*
- A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing. *Sucasas, V., +, TMC April 2020 752-768*
- A Socially-Aware Hybrid Computation Offloading Framework for Multi-Access Edge Computing. *Yu, S., +, TMC June 2020 1247-1259*
- An Application-Specific Approach to Energy Optimization on Android Mobile Devices. *Wang, J., +, TMC July 2020 1492-1505*
- ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. *Zheng, Z., +, TMC April 2020 769-787*

- CDN Slicing over a Multi-Domain Edge Cloud. *Taleb, T.*, +, *TMC Sept. 2020 2010-2027*
- CEDAR: A Cost-Effective Crowdsensing System for Detecting and Localizing Drones. *Yang, G.*, +, *TMC Sept. 2020 2028-2043*
- Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*
- DeepWear: Adaptive Local Offloading for On-Wearable Deep Learning. *Xu, M.*, +, *TMC Feb. 2020 314-330*
- Enabling Strong Privacy Preservation and Accurate Task Allocation for Mobile Crowdsensing. *Ni, J.*, +, *TMC June 2020 1317-1331*
- Exploring a Brain-Based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation. *Lin, F.*, +, *TMC Dec. 2020 2774-2792*
- FamilyLog: Monitoring Family Mealtime Activities by Mobile Devices. *Bi, C.*, +, *TMC Aug. 2020 1818-1830*
- FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks. *Liu, P.*, +, *TMC Nov. 2020 2623-2639*
- Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. *Zhan, Y.*, +, *TMC Oct. 2020 2316-2329*
- FullStop: A Camera-Assisted System for Characterizing Unsafe Bus Stopping. *Bhandari, R.*, +, *TMC Sept. 2020 2116-2128*
- Furion: Engineering High-Quality Immersive Virtual Reality on Today's Mobile Devices. *Lai, Z.*, +, *TMC July 2020 1586-1602*
- Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. *Cao, H.*, +, *TMC May 2020 1096-1108*
- HyTasker: Hybrid Task Allocation in Mobile Crowd Sensing. *Wang, J.*, +, *TMC March 2020 598-611*
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- iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*
- Incentive Mechanism for Multiple Cooperative Tasks with Compatible Users in Mobile Crowd Sensing via Online Communities. *Xu, J.*, +, *TMC July 2020 1618-1633*
- Interactive Context for Mobile OS Resource Management. *Zhu, M.*, +, *TMC March 2020 612-623*
- Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*
- Joint Recommendations in Multilayer Mobile Social Networks. *Liu, J.*, +, *TMC Oct. 2020 2358-2373*
- Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. *Xu, X.*, +, *TMC April 2020 865-879*
- Location-Aware Crowdsensing: Dynamic Task Assignment and Truth Inference. *Wang, X.*, +, *TMC Feb. 2020 362-375*
- Mobile Devices based Eavesdropping of Handwriting. *Yu, T.*, +, *TMC July 2020 1649-1663*
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- PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving. *Lee, J.*, +, *TMC Nov. 2020 2656-2669*
- Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing. *Depatla, S.*, +, *TMC Oct. 2020 2429-2444*
- Personalized Mobile App Recommendation by Learning User's Interest from Social Media. *Tu, Z.*, +, *TMC Nov. 2020 2670-2683*
- Posted Pricing for Chance Constrained Robust Crowdsensing. *Qu, Y.*, +, *TMC Jan. 2020 188-199*
- PPtaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. *Chen, Y.*, +, *TMC Nov. 2020 2684-2698*
- Pricing for Collaboration between Online Apps and Offline Venues. *Yu, H.*, +, *TMC June 2020 1420-1433*
- Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem. *Liu, X.*, +, *TMC May 2020 1184-1199*
- PrOS: Light-Weight Privatized Secure OSes in ARM TrustZone. *Kwon, D.*, +, *TMC June 2020 1434-1447*
- Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L.*, +, *TMC Sept. 2020 2174-2188*
- Real-Time Crowd Monitoring Using Seamless Indoor-Outdoor Localization. *Kulshrestha, T.*, +, *TMC March 2020 664-679*
- Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*
- Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. *Huang, M.*, +, *TMC Nov. 2020 2699-2713*
- Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*
- Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y.*, +, *TMC Feb. 2020 432-449*
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- Scalable Power Impact Prediction of Mobile Sensing Applications at Pre-Installation Time. *Min, C.*, +, *TMC June 2020 1448-1464*
- Signature Verification Using Critical Segments for Securing Mobile Transactions. *Ren, Y.*, +, *TMC March 2020 724-739*
- SmartPI: Understanding Permission Implications of Android Apps from User Reviews. *Wang, R.*, +, *TMC Dec. 2020 2933-2945*
- Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. *Brocanelli, M.*, +, *TMC March 2020 740-751*
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- Towards A Personal Mobile Cloud via Generic Device Interconnections. *Li, Y.*, +, *TMC Dec. 2020 2965-2980*
- Mobile handsets**
- A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. *Pan, Y.*, +, *TMC Nov. 2020 2489-2504*
- Adaptive and Blind Regression for Mobile Crowd Sensing. *Chang, S.*, +, *TMC Nov. 2020 2533-2547*
- Improving Urban Crowd Flow Prediction on Flexible Region Partition. *Wang, X.*, +, *TMC Dec. 2020 2804-2817*
- Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y.*, +, *TMC Feb. 2020 432-449*
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- Mobile radio**
- An Analysis of Service Bundles of Mobile Network Operators with Free Services Included. *Asghari, M.*, +, *TMC Aug. 2020 1789-1803*
- CEDAR: A Cost-Effective Crowdsensing System for Detecting and Localizing Drones. *Yang, G.*, +, *TMC Sept. 2020 2028-2043*
- Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*
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- Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*
- Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*
- Incentive Mechanism for Resource Allocation in Wireless Virtualized Networks with Multiple Infrastructure Providers. *Chang, Z.*, +, *TMC Jan. 2020 103-115*
- LoSeRO: A Locality Sensitive Routing Protocol in Opportunistic Networks with Contact Profiles. *Costantino, G.*, +, *TMC Oct. 2020 2392-2408*
- Mitigating NDN-Based Fake Content Dissemination in Opportunistic Mobile Networks. *Saha, B.K.*, +, *TMC June 2020 1375-1386*
- On the Interaction of Charging-Aware Mobility and Wireless Capacity. *Gao, W.*, +, *TMC March 2020 654-663*
- Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*

Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L.*, +, *TMC Sept. 2020 2174-2188*

RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*

Security Properties of Gait for Mobile Device Pairing. *Brusch, A.*, +, *TMC March 2020 697-710*

Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H.*, +, *TMC May 2020 1233-1246*

#### Mobile robots

A Secure Shuffling Mechanism for White-Box Attack-Resistant Unmanned Vehicles. *Won, J.*, +, *TMC May 2020 1023-1039*

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

Take the Field from Your Smartphone: Leveraging UAVs for Event Filming. *Natalizio, E.*, +, *TMC Aug. 2020 1971-1983*

#### Mobile security

SmartPI: Understanding Permission Implications of Android Apps from User Reviews. *Wang, R.*, +, *TMC Dec. 2020 2933-2945*

#### Mobility management (mobile radio)

A Seamless Mobility Management Protocol in 5G Locator Identifier Split Dense Small Cells. *Fafolahan, E.M.O.*, +, *TMC Aug. 2020 1745-1759*

Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks. *Talak, R.*, +, *TMC Sept. 2020 1998-2009*

Incentive Mechanism for Resource Allocation in Wireless Virtualized Networks with Multiple Infrastructure Providers. *Chang, Z.*, +, *TMC Jan. 2020 103-115*

Inter-Femtocell Interference Identification and Resource Management. *Liu, C.*, +, *TMC Jan. 2020 116-129*

Learning-Based Tracking Area List Management in 4G and 5G Networks. *Moysen, J.*, +, *TMC Aug. 2020 1862-1878*

Unraveling Impact of Critical Sensing Range on Mobile Camera Sensor Networks. *Gan, X.*, +, *TMC April 2020 982-996*

#### Monopoly

Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

#### Monte Carlo methods

A Socially-Aware Hybrid Computation Offloading Framework for Multi-Access Edge Computing. *Yu, S.*, +, *TMC June 2020 1247-1259*

#### Motion estimation

Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S.*, +, *TMC Oct. 2020 2250-2263*

#### Multi-access systems

Recycling Random Access Opportunities with Secondary Access Class Barring. *Lee, M.*, +, *TMC Sept. 2020 2189-2201*

#### Multi-agent systems

Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

#### Multicast communication

Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks. *Jiang, Y.*, +, *TMC March 2020 540-551*

FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs. *Park, Y.D.*, +, *TMC Oct. 2020 2299-2315*

#### Multimedia communication

Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*

#### Multipath channels

MPWiFi: Synergizing MPTCP Based Simultaneous Multipath Access and WiFi Network Performance. *Palash, M.R.*, +, *TMC Jan. 2020 142-158*

#### Multiple signal classification

Residual Carrier Frequency Offset Estimation and Compensation for Commodity WiFi. *Chen, Y.*, +, *TMC Dec. 2020 2891-2902*

#### Multiplexing

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*

## N

#### Naive Bayes methods

Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*

#### Nakagami channels

Autocorrelation and Coherence Time of Interference in Poisson Networks. *Schilcher, U.*, +, *TMC July 2020 1506-1518*

On Interference Dynamics in Matérn Networks. *Schilcher, U.*, +, *TMC July 2020 1677-1688*

#### Near-field communication

Offloading Computations to Mobile Devices and Cloudlets via an Upgraded NFC Communication Protocol. *Chatzopoulos, D.*, +, *TMC March 2020 640-653*

SCsec: A Secure Near Field Communication System via Screen Camera Communication. *Zhao, J.*, +, *TMC Aug. 2020 1943-1955*

#### Network coding

Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding. *Kaneva, K.*, +, *TMC Feb. 2020 276-287*

Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*

#### Network function virtualization

Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. *Huang, M.*, +, *TMC Nov. 2020 2699-2713*

#### Network slicing

Dynamic Resource Provisioning of a Scalable E2E Network Slicing Orchestration System. *Afolabi, I.*, +, *TMC Nov. 2020 2594-2608*

#### Network topology

Volcano Routing: A Multi-Pipe High-Throughput Routing Protocol with Hole Avoidance for Multi-Beam Directional Mesh Networks. *Toorchi, N.*, +, *TMC Dec. 2020 2981-2996*

#### Neural networks

Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. *Zhan, Y.*, +, *TMC Oct. 2020 2316-2329*

Incentive Mechanism for Multiple Cooperative Tasks with Compatible Users in Mobile Crowd Sensing via Online Communities. *Xu, J.*, +, *TMC July 2020 1618-1633*

#### Neurocontrollers

Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning. *Liu, C.H.*, +, *TMC June 2020 1274-1285*

#### Next generation networks

Dynamic Channel Bonding in Spatially Distributed High-Density WLANs. *Barrachina-Munoz, S.*, +, *TMC April 2020 821-835*

#### Noise measurement

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

#### Nonlinear programming

Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

## O

#### Object detection

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. *Ouyang, Z.*, +, *TMC Feb. 2020 300-313*

Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems. *Wang, C.*, +, *TMC May 2020 1200-1215*

Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S.*, +, *TMC Sept. 2020 2234-2249*



Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H.*, +, *TMC May 2020 1233-1246*

#### Object tracking

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing. *Depatla, S.*, +, *TMC Oct. 2020 2429-2444*

#### OFDM modulation

FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs. *Park, Y.D.*, +, *TMC Oct. 2020 2299-2315*

Inter-Femtocell Interference Identification and Resource Management. *Liu, C.*, +, *TMC Jan. 2020 116-129*

LaSR: A Supple Multi-Connectivity Scheduler for Multi-RAT OFDMA Systems. *Diez, L.*, +, *TMC March 2020 624-639*

Minimizing Wireless Delay with a High-Throughput Side Channel. *Chen, R.*, +, *TMC July 2020 1634-1648*

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

Residual Carrier Frequency Offset Estimation and Compensation for Commodity WiFi. *Chen, Y.*, +, *TMC Dec. 2020 2891-2902*

#### Oligopoly

Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

#### Omnidirectional antennas

Efficient Indoor Localization via Switched-Beam Antennas. *Zhang, Y.*, +, *TMC Sept. 2020 2101-2115*

#### Operating system kernels

Interactive Context for Mobile OS Resource Management. *Zhu, M.*, +, *TMC March 2020 612-623*

#### Operating systems (computers)

PrOS: Light-Weight Privatized Secure OSES in ARM TrustZone. *Kwon, D.*, +, *TMC June 2020 1434-1447*

#### Optical communication

High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

#### Optical modulation

Composite Amplitude-Shift Keying for Effective LED-Camera VLC. *Yang, Y.*, +, *TMC March 2020 528-539*

High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

#### Optical transmitters

High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. *Hu, P.*, +, *TMC July 2020 1603-1617*

#### Optimal control

LaSR: A Supple Multi-Connectivity Scheduler for Multi-RAT OFDMA Systems. *Diez, L.*, +, *TMC March 2020 624-639*

#### Optimal scheduling

Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. *Hsu, Y.*, +, *TMC Dec. 2020 2903-2915*

#### Optimization

A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. *Pan, Y.*, +, *TMC Nov. 2020 2489-2504*

A Complete LTE Mathematical Framework for the Network Slice Planning of the EPC. *Prados-Garzon, J.*, +, *TMC Jan. 2020 1-14*

A Machine Learning Approach to 5G Infrastructure Market Optimization. *Bega, D.*, +, *TMC March 2020 498-512*

A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*

Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding. *Kaneva, K.*, +, *TMC Feb. 2020 276-287*

CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. *Dai, H.*, +, *TMC Jan. 2020 44-59*

Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*

Coflow-Like Online Data Acquisition from Low-Earth-Orbit Datacenters. *Huang, H.*, +, *TMC Dec. 2020 2743-2760*

Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*

DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks. *Ye, J.*, +, *TMC Sept. 2020 2076-2087*

HyTasker: Hybrid Task Allocation in Mobile Crowd Sensing. *Wang, J.*, +, *TMC March 2020 598-611*

iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*

Joint Client Association and Random Access Control for MU-MIMO WLANs. *Wong, W.*, +, *TMC Dec. 2020 2818-2832*

Jointly-Optimized Searching and Tracking with Random Finite Sets. *Papaoannou, S.*, +, *TMC Oct. 2020 2374-2391*

LaSR: A Supple Multi-Connectivity Scheduler for Multi-RAT OFDMA Systems. *Diez, L.*, +, *TMC March 2020 624-639*

Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y.*, +, *TMC Dec. 2020 2833-2849*

Learning-Based Tracking Area List Management in 4G and 5G Networks. *Moysen, J.*, +, *TMC Aug. 2020 1862-1878*

Multi-Cap Optimization for Wireless Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC Sept. 2020 2145-2159*

Near-Optimal and Truthful Online Auction for Computation Offloading in Green Edge-Computing Systems. *Zhang, D.*, +, *TMC April 2020 880-893*

Optimized Preference-Aware Multi-Path Video Streaming with Scalable Video Coding. *Elgabli, A.*, +, *TMC Jan. 2020 159-172*

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*

Posted Pricing for Chance Constrained Robust Crowdsensing. *Qu, Y.*, +, *TMC Jan. 2020 188-199*

Profit Maximization for Sponsored Data in Wireless Video Transmission Systems. *Ji, W.*, +, *TMC Aug. 2020 1928-1942*

Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L.*, +, *TMC Sept. 2020 2174-2188*

Recycling Random Access Opportunities with Secondary Access Class Barring. *Lee, M.*, +, *TMC Sept. 2020 2189-2201*

Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*

RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*

Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*

Versatile Access Control for Massive IoT: Throughput, Latency, and Energy Efficiency. *Jang, H.S.*, +, *TMC Aug. 2020 1984-1997*

## P

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Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*

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Exploring a Brain-Based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation. *Lin, F.*, +, *TMC Dec. 2020 2774-2792*

Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

#### Path planning

Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*

#### Patient care

RSS Models for Respiration Rate Monitoring. *Yigitler, H.*, +, *TMC March 2020 680-696*

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RSS Models for Respiration Rate Monitoring. Yigitler, H., +, *TMC March 2020 680-696*

**Pattern classification**

Deep CNN-Based Real-Time Traffic Light Detector for Self-Driving Vehicles. Ouyang, Z., +, *TMC Feb. 2020 300-313*

FamilyLog: Monitoring Family Mealtime Activities by Mobile Devices. Bi, C., +, *TMC Aug. 2020 1818-1830*

**Pattern clustering**

A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. Jones, W., +, *TMC Feb. 2020 262-275*

A Signal-Level Transfer Learning Framework for Autonomous Reconfiguration of Wearable Systems. Saeedi, R., +, *TMC March 2020 513-527*

Incentive Mechanism for Multiple Cooperative Tasks with Compatible Users in Mobile Crowd Sensing via Online Communities. Xu, J., +, *TMC July 2020 1618-1633*

Mobile Devices based Eavesdropping of Handwriting. Yu, T., +, *TMC July 2020 1649-1663*

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A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. Qin, Y., +, *TMC Nov. 2020 2505-2519*

**Pedestrians**

Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing. Depatla, S., +, *TMC Oct. 2020 2429-2444*

**Peer-to-peer computing**

Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. Huang, Y., +, *TMC April 2020 852-864*

**Performance evaluation**

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. Khoshkholgh, M.G., +, *TMC Sept. 2020 2044-2061*

**Photodiodes**

Enabling Real-Time Indoor Tracking of IoT Devices Through Visible Light Retroreflection. Shao, S., +, *TMC April 2020 836-851*

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A Control Theoretic Approach to ABR Video Streaming: A Fresh Look at PID-Based Rate Adaptation. Qin, Y., +, *TMC Nov. 2020 2505-2519*

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PTaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. Chen, Y., +, *TMC Nov. 2020 2684-2698*

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*TagBreathe: Monitor Breathing with Commodity RFID Systems.* Wang, Y., +, *TMC April 2020 969-981*

RSS Models for Respiration Rate Monitoring. Yigitler, H., +, *TMC March 2020 680-696*

**Poles and towers**

Improving Urban Crowd Flow Prediction on Flexible Region Partition. Wang, X., +, *TMC Dec. 2020 2804-2817*

**Position control**

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. Ghosh, P., +, *TMC June 2020 1260-1273*

**Possibility theory**

Possibility-Based Trust for Mobile Wireless Networks. Willink, T.J., *TMC Aug. 2020 1896-1909*

**Power aware computing**

An Application-Specific Approach to Energy Optimization on Android Mobile Devices. Wang, J., +, *TMC July 2020 1492-1505*

Interactive Context for Mobile OS Resource Management. Zhu, M., +, *TMC March 2020 612-623*

Optimal Mobile Computation Offloading with Hard Deadline Constraints. Hekmati, A., +, *TMC Sept. 2020 2160-2173*

Scalable Power Impact Prediction of Mobile Sensing Applications at Pre-Installation Time. Min, C., +, *TMC June 2020 1448-1464*

Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. Brocanelli, M., +, *TMC March 2020 740-751*

**Power control**

A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. Jones, W., +, *TMC Feb. 2020 262-275*

**Power engineering computing**

CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. Dai, H., +, *TMC Jan. 2020 44-59*

Practical Heterogeneous Wireless Charger Placement with Obstacles. Wang, X., +, *TMC Aug. 2020 1910-1927*

**Power measurement**

An Application-Specific Approach to Energy Optimization on Android Mobile Devices. Wang, J., +, *TMC July 2020 1492-1505*

**Pricing**

A Distributed Game Methodology for Crowdsensing in Uncertain Wireless Scenario. Cao, B., +, *TMC Jan. 2020 15-28*

A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. Yi, C., +, *TMC Jan. 2020 29-43*

ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. Zheng, Z., +, *TMC April 2020 769-787*

Duopoly Competition for Mobile Data Plans with Time Flexibility. Wang, Z., +, *TMC June 2020 1286-1298*

Economic Analysis of Rollover and Shared Data Plans. Wang, X., +, *TMC Sept. 2020 2088-2100*

Multi-Cap Optimization for Wireless Data Plans with Time Flexibility. Wang, Z., +, *TMC Sept. 2020 2145-2159*

Posted Pricing for Chance Constrained Robust Crowdsensing. Qu, Y., +, *TMC Jan. 2020 188-199*

Pricing for Collaboration between Online Apps and Offline Venues. Yu, H., +, *TMC June 2020 1420-1433*

ROD-Revenue: Seeking Strategies Analysis and Revenue Prediction in Ride-on-Demand Service Using Multi-Source Urban Data. Guo, S., +, *TMC Sept. 2020 2202-2220*

Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. Liu, T., +, *TMC Jan. 2020 231-244*

**Privacy**

Preserving Honest/Dishonest Users' Operational Privacy with Blind Interference Calculation in Spectrum Sharing System. Cheng, Q., +, *TMC Dec. 2020 2874-2890*

SmartPI: Understanding Permission Implications of Android Apps from User Reviews. Wang, R., +, *TMC Dec. 2020 2933-2945*

**Probability**

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. Ghosh, P., +, *TMC June 2020 1260-1273*

CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. Dai, H., +, *TMC Jan. 2020 44-59*

Cost Effective Directional Barrier Construction Based on Zooming and United Probabilistic Detection. Fan, X., +, *TMC July 2020 1555-1569*

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. Khoshkholgh, M.G., +, *TMC Sept. 2020 2044-2061*

Data Transmissions Using Hub Nodes in Vehicular Social Networks. Vegni, A.M., +, *TMC July 2020 1570-1585*

Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. Wang, J., +, *TMC Sept. 2020 2062-2075*

Implementation of Differential Tag Sampling for COTS RFID Systems. Xie, X., +, *TMC Aug. 2020 1848-1861*

Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. Roy, A., +, *TMC Feb. 2020 376-389*

Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. Babich, F., +, *TMC Feb. 2020 390-404*

On Interference Dynamics in Matérn Networks. Schilcher, U., +, *TMC July 2020 1677-1688*

On the Interaction of Charging-Aware Mobility and Wireless Capacity. Gao, W., +, *TMC March 2020 654-663*

Optimal Mobile Computation Offloading with Hard Deadline Constraints. Hekmati, A., +, *TMC Sept. 2020 2160-2173*

Probabilistic Spatially-Divided Multiple Access in Underwater Acoustic Sparse Networks. *Rahmati, M.*, +, *TMC Feb. 2020 405-418*

Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*

Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M.*, +, *TMC Sept. 2020 2221-2233*

Towards Scalable Indoor Map Construction and Refinement using Acoustics on Smartphones. *Zhou, B.*, +, *TMC Jan. 2020 217-230*

Unraveling Impact of Critical Sensing Range on Mobile Camera Sensor Networks. *Gan, X.*, +, *TMC April 2020 982-996*

#### Product codes

Missing Tag Identification in COTS RFID Systems: Bridging the Gap between Theory and Practice. *Yu, J.*, +, *TMC Jan. 2020 130-141*

#### Profitability

An Analysis of Service Bundles of Mobile Network Operators with Free Services Included. *Asghari, M.*, +, *TMC Aug. 2020 1789-1803*

ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. *Zheng, Z.*, +, *TMC April 2020 769-787*

Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

Multi-Cap Optimization for Wireless Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC Sept. 2020 2145-2159*

Profit Maximization for Sponsored Data in Wireless Video Transmission Systems. *Ji, W.*, +, *TMC Aug. 2020 1928-1942*

#### Program diagnostics

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Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem. *Liu, X.*, +, *TMC May 2020 1184-1199*

#### Protocols

Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac. *Kampeas, J.*, +, *TMC Nov. 2020 2548-2561*

Computational Offloading for Energy Constrained Devices in Multi-Hop Cooperative Networks. *Funai, C.*, +, *TMC Jan. 2020 60-73*

Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach. *Srinivasan, M.*, +, *TMC June 2020 1299-1316*

Hidden-Node Problem in Full-Duplex Enabled CSMA Networks. *Liu, S.*, +, *TMC Feb. 2020 347-361*

Implementation of Differential Tag Sampling for COTS RFID Systems. *Xie, X.*, +, *TMC Aug. 2020 1848-1861*

Label Coloring Based Beaconing Schedule in Duty-Cycled Multihop Wireless Networks. *Chen, Q.*, +, *TMC May 2020 1123-1137*

Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. *Scalabrin, M.*, +, *TMC May 2020 1138-1155*

Multi-Seed Group Labeling in RFID Systems. *Yu, J.*, +, *TMC Dec. 2020 2850-2862*

Practical Splitting Algorithm for Multi-Channel Slotted Random Access Systems. *Toor, W.T.*, +, *TMC Dec. 2020 2863-2873*

#### Public administration

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

#### Public key cryptography

A Signature Scheme with Unlinkable-yet-Accountable Pseudonymity for Privacy-Preserving Crowdsensing. *Sucasas, V.*, +, *TMC April 2020 752-768*

#### Public transport

ROD-Revenue: Seeking Strategies Analysis and Revenue Prediction in Ride-on-Demand Service Using Multi-Source Urban Data. *Guo, S.*, +, *TMC Sept. 2020 2202-2220*

#### Public transportation

Pptaxi: Non-Stop Package Delivery via Multi-Hop Ridesharing. *Chen, Y.*, +, *TMC Nov. 2020 2684-2698*

#### Pulse position modulation

SmartVLC: Co-Designing Smart Lighting and Communication for Visible Light Networks. *Wu, H.*, +, *TMC Aug. 2020 1956-1970*

## Q

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#### Quality of experience

CDN Slicing over a Multi-Domain Edge Cloud. *Taleb, T.*, +, *TMC Sept. 2020 2010-2027*

Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*

Optimized Preference-Aware Multi-Path Video Streaming with Scalable Video Coding. *Elgabli, A.*, +, *TMC Jan. 2020 159-172*

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

Supervisory Performance Control of Concurrent Mobile Apps for Energy Efficiency. *Brocanelli, M.*, +, *TMC March 2020 740-751*

#### Quality of service

Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

Minimizing Wireless Delay with a High-Throughput Side Channel. *Chen, R.*, +, *TMC July 2020 1634-1648*

Optimizing TCP Loss Recovery Performance Over Mobile Data Networks. *Liu, K.*, +, *TMC June 2020 1401-1419*

Per-Flow Radio Resource Management to Mitigate Interference in Dense IEEE 802.11 Wireless LANs. *Bouhafs, F.*, +, *TMC May 2020 1170-1183*

Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*

Severity-Based Prioritized Processing of Packets with Application in VANETs. *Al-Fuqaha, A.*, +, *TMC Feb. 2020 484-496*

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ARETE: On Designing Joint Online Pricing and Reward Sharing Mechanisms for Mobile Data Markets. *Zheng, Z.*, +, *TMC April 2020 769-787*

On Efficiently Monitoring Continuous Aggregate  $k$  Nearest Neighbors in Road Networks. *Miao, X.*, +, *TMC July 2020 1664-1676*

#### Queueing analysis

Dynamic Resource Provisioning of a Scalable E2E Network Slicing Orchestration System. *Afolabi, I.*, +, *TMC Nov. 2020 2594-2608*

#### Queueing theory

A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*

Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. *Song, Y.*, +, *TMC July 2020 1689-1701*

## R

#### Radio access networks

Cellular Fronthaul Offloading Using Device Fogs, Caching, and Network Coding. *Kaneva, K.*, +, *TMC Feb. 2020 276-287*

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Decentralized Asynchronous Coded Caching Design and Performance Analysis in Fog Radio Access Networks. *Jiang, Y.*, +, *TMC March 2020 540-551*

Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach. *Srinivasan, M.*, +, *TMC June 2020 1299-1316*

Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*

Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*

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Beamforming Oriented Topology Control for mmWave Networks. *Paul, P.*, +, *TMC July 2020 1519-1531*

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Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M.*, +, *TMC Sept. 2020 2221-2233*

#### Radio networks

A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. *Jones, W.*, +, *TMC Feb. 2020 262-275*

Autocorrelation and Coherence Time of Interference in Poisson Networks. *Schilcher, U.*, +, *TMC July 2020 1506-1518*

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Towards Influence of Chunk Size Variation on Video Streaming in Wireless Networks. *Zhang, T.*, +, *TMC July 2020 1715-1730*

#### Radio receivers

ARREST: A RSSI Based Approach for Mobile Sensing and Tracking of a Moving Object. *Ghosh, P.*, +, *TMC June 2020 1260-1273*

Optimized Neighbor Discovery for Opportunistic Networks of Energy Constrained IoT Devices. *Loreti, P.*, +, *TMC June 2020 1387-1400*

#### Radio spectrum management

Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

Coexistence Performance and Limits of Frame-Based Listen-Before-Talk. *Sutton, G.J.*, +, *TMC May 2020 1084-1095*

DPavatar: A Real-Time Location Protection Framework for Incumbent Users in Cognitive Radio Networks. *Liu, J.*, +, *TMC March 2020 552-565*

Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach. *Srinivasan, M.*, +, *TMC June 2020 1299-1316*

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#### Radiofrequency identification

TagBreathe: Monitor Breathing with Commodity RFID Systems. *Wang, Y.*, +, *TMC April 2020 969-981*

Collisions Are Preferred: RFID-Based Stocktaking with a High Missing Rate. *Zhu, W.*, +, *TMC July 2020 1544-1554*

Geographical Correlation-Based Data Collection for Sensor-Augmented RFID Systems. *Xie, X.*, +, *TMC Oct. 2020 2344-2357*

HMO: Ordering RFID Tags with Static Devices in Mobile Environments. *Wang, G.*, +, *TMC Jan. 2020 74-89*

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Missing Tag Identification in COTS RFID Systems: Bridging the Gap between Theory and Practice. *Yu, J.*, +, *TMC Jan. 2020 130-141*

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Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems. *Wang, C.*, +, *TMC May 2020 1200-1215*

#### Radiofrequency interference

Autocorrelation and Coherence Time of Interference in Poisson Networks. *Schilcher, U.*, +, *TMC July 2020 1506-1518*

Beamforming Oriented Topology Control for mmWave Networks. *Paul, P.*, +, *TMC July 2020 1519-1531*

Catch Me If You Can: Rogue Access Point Detection Using Intentional Channel Interference. *Jang, R.*, +, *TMC May 2020 1056-1071*

Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*

Hidden-Node Problem in Full-Duplex Enabled CSMA Networks. *Liu, S.*, +, *TMC Feb. 2020 347-361*

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Label Coloring Based Beaconing Schedule in Duty-Cycled Multihop Wireless Networks. *Chen, Q.*, +, *TMC May 2020 1123-1137*

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Popularity-Aware Caching Increases the Capacity of Wireless Networks. *Qiu, L.*, +, *TMC Jan. 2020 173-187*

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Efficient Indoor Localization via Switched-Beam Antennas. *Zhang, Y.*, +, *TMC Sept. 2020 2101-2115*

RF Fingerprints Prediction for Cellular Network Positioning: A Subspace Identification Approach. *Tian, X.*, +, *TMC Feb. 2020 450-465*

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Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*

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Adaptive Compressive Video Coding for Embedded Camera Sensors: Compressed Domain Motion and Measurements Estimation. *Unde, A.S.*, +, *TMC Oct. 2020 2250-2263*

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A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications. *Yi, C.*, +, *TMC Jan. 2020 29-43*

CDN Slicing over a Multi-Domain Edge Cloud. *Taleb, T.*, +, *TMC Sept. 2020 2010-2027*

Clustered Virtualized Network Functions Resource Allocation based on Context-Aware Grouping in 5G Edge Networks. *Song, S.*, +, *TMC May 2020 1072-1083*

Delay-Sensitive Multi-Period Computation Offloading with Reliability Guarantees in Fog Networks. *Wang, J.*, +, *TMC Sept. 2020 2062-2075*

Fairness and Transmission-Aware Caching and Delivery Policies in OFDMA-Based HetNets. *Rezvani, S.*, +, *TMC Feb. 2020 331-346*

Incentive Mechanism for Resource Allocation in Wireless Virtualized Networks with Multiple Infrastructure Providers. *Chang, Z.*, +, *TMC Jan. 2020 103-115*

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Joint Optimization of Path Planning and Resource Allocation in Mobile Edge Computing. *Liu, Y.*, +, *TMC Sept. 2020 2129-2144*

LaSR: A Supple Multi-Connectivity Scheduler for Multi-RAT OFDMA Systems. *Diez, L.*, +, *TMC March 2020 624-639*

Max-Min Fair Resource Allocation in Millimetre-Wave Backhauls. *Li, R.*, +, *TMC Aug. 2020 1879-1895*

Near-Optimal and Truthful Online Auction for Computation Offloading in Green Edge-Computing Systems. *Zhang, D.*, +, *TMC April 2020 880-893*

Optimization Model for Cross-Domain Network Slices in 5G Networks. *Addad, R.A.*, +, *TMC May 2020 1156-1169*

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*

Quality of Experience-Aware Mobile Edge Caching through a Vehicular Cloud. *Vigneri, L.*, +, *TMC Sept. 2020 2174-2188*

Recycling Random Access Opportunities with Secondary Access Class Barring. *Lee, M.*, +, *TMC Sept. 2020 2189-2201*

Scalable Power Impact Prediction of Mobile Sensing Applications at Pre-Installation Time. *Min, C.*, +, *TMC June 2020 1448-1464*

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Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks. *Huang, L.*, +, *TMC Nov. 2020 2581-2593*

Distributed Learning in Noisy-Potential Games for Resource Allocation in D2D Networks. *Ali, M.S.*, +, *TMC Dec. 2020 2761-2773*

Fast-Convergent Learning-Aided Control in Energy Harvesting Networks. *Huang, L.*, *TMC Dec. 2020 2793-2803*

Practical Splitting Algorithm for Multi-Channel Slotted Random Access Systems. *Toor, W.T.*, +, *TMC Dec. 2020 2863-2873*

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Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. *Xu, X.*, +, *TMC April 2020 865-879*

Reliability-Optimal Cooperative Communication and Computing in Connected Vehicle Systems. *Zhou, J.*, +, *TMC May 2020 1216-1232*

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A Seamless Mobility Management Protocol in 5G Locator Identifier Split Dense Small Cells. *Fafolahan, E.M.O.*, +, *TMC Aug. 2020 1745-1759*

FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks. *Liu, P.*, +, *TMC Nov. 2020 2623-2639*

LoSeRO: A Locality Sensitive Routing Protocol in Opportunistic Networks with Contact Profiles. *Costantino, G.*, +, *TMC Oct. 2020 2392-2408*

Shortest-Latency Opportunistic Routing in Asynchronous Wireless Sensor Networks with Independent Duty-Cycling. *Zhang, X.*, +, *TMC March 2020 711-723*

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Traffic Flow Control in Vehicular Multi-Hop Networks with Data Caching. *Liu, T.*, +, *TMC Jan. 2020 231-244*

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Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. *Zhan, Y.*, +, *TMC Oct. 2020 2316-2329*

iLOCuS: Incentivizing Vehicle Mobility to Optimize Sensing Distribution in Crowd Sensing. *Xu, S.*, +, *TMC Aug. 2020 1831-1847*

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Learning-Aided Computation Offloading for Trusted Collaborative Mobile Edge Computing. *Li, Y.*, +, *TMC Dec. 2020 2833-2849*

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Channel Access Optimization with Adaptive Congestion Pricing for Cognitive Vehicular Networks: An Evolutionary Game Approach. *Tian, D.*, +, *TMC April 2020 803-820*

DRAG: Deep Reinforcement Learning Based Base Station Activation in Heterogeneous Networks. *Ye, J.*, +, *TMC Sept. 2020 2076-2087*

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SCsec: A Secure Near Field Communication System via Screen Camera Communication. *Zhao, J.*, +, *TMC Aug. 2020 1943-1955*

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Duopoly Competition for Mobile Data Plans with Time Flexibility. *Wang, Z.*, +, *TMC June 2020 1286-1298*

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Nanosatellite-5G Integration in the Millimeter Wave Domain: A Full Top-Down Approach. *Babich, F.*, +, *TMC Feb. 2020 390-404*

Possibility-Based Trust for Mobile Wireless Networks. *Willink, T.J.*, *TMC Aug. 2020 1896-1909*

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Beamforming Oriented Topology Control for mmWave Networks. *Paul, P.*, +, *TMC July 2020 1519-1531*

Coverage Optimization with a Dynamic Network of Drone Relays. *Arribas, E.*, +, *TMC Oct. 2020 2278-2298*

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Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*

Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X.*, +, *TMC June 2020 1332-1345*

Energy- and Mobility-Aware Scheduling for Perpetual Trajectory Tracking. *Sommer, P.*, +, *TMC March 2020 566-580*

Frequency-Angle Spectrum Hole Detection with Taylor Expansion Based Focusing Transformation. *Liu, F.*, +, *TMC Oct. 2020 2330-2343*

On the Interaction of Charging-Aware Mobility and Wireless Capacity. *Gao, W.*, +, *TMC March 2020 654-663*

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Performance Analysis of Scheduled Access Mode of the IEEE 802.15.6 MAC Protocol under Non-Ideal Channel Conditions. *Manna, T.*, +, *TMC April 2020 935-953*

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Energy- and Mobility-Aware Scheduling for Perpetual Trajectory Tracking. *Sommer, P.*, +, *TMC March 2020 566-580*

Label Coloring Based Beaconing Schedule in Duty-Cycled Multihop Wireless Networks. *Chen, Q.*, +, *TMC May 2020 1123-1137*

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Catch Me If You Can: Rogue Access Point Detection Using Intentional Channel Interference. *Jang, R.*, +, *TMC May 2020 1056-1071*

Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*

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- SCsec: A Secure Near Field Communication System via Screen Camera Communication. *Zhao, J.*, +, *TMC Aug. 2020 1943-1955*
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Cooperative Caching for Multiple Bitrate Videos in Small Cell Edges. *Qu, Z.*, +, *TMC Feb. 2020 288-299*

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FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs. *Park, Y.D.*, +, *TMC Oct. 2020 2299-2315*

Furion: Engineering High-Quality Immersive Virtual Reality on Today's Mobile Devices. *Lai, Z.*, +, *TMC July 2020 1586-1602*

Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*

Optimized Preference-Aware Multi-Path Video Streaming with Scalable Video Coding. *Elgabli, A.*, +, *TMC Jan. 2020 159-172*

Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. *Hung, Y.*, +, *TMC April 2020 922-934*

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Towards Influence of Chunk Size Variation on Video Streaming in Wireless Networks. *Zhang, T.*, +, *TMC July 2020 1715-1730*

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CDN Slicing over a Multi-Domain Edge Cloud. *Taleb, T.*, +, *TMC Sept. 2020 2010-2027*

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**Wearable computers**

- aLeak*: Context-Free Side-Channel from Your Smart Watch Leaks Your Typing Privacy. *Liu, Y.*, +, *TMC Aug. 2020 1775-1788*
- A Signal-Level Transfer Learning Framework for Autonomous Reconfiguration of Wearable Systems. *Saeedi, R.*, +, *TMC March 2020 513-527*
- FamilyLog: Monitoring Family Mealtime Activities by Mobile Devices. *Bi, C.*, +, *TMC Aug. 2020 1818-1830*

**Web services**

- Recommending Mobile Services with Trustworthy QoS and Dynamic User Preferences via FAHP and Ordinal Utility Function. *Li, L.*, +, *TMC Feb. 2020 419-431*

**Wheels**

- Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. *Xu, X.*, +, *TMC April 2020 865-879*

**Wireless channels**

- A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. *Jones, W.*, +, *TMC Feb. 2020 262-275*
- Capacity and Delay Scaling for Broadcast Transmission in Highly Mobile Wireless Networks. *Talak, R.*, +, *TMC Sept. 2020 1998-2009*
- Catch Me If You Can: Rogue Access Point Detection Using Intentional Channel Interference. *Jang, R.*, +, *TMC May 2020 1056-1071*
- Coexistence Performance and Limits of Frame-Based Listen-Before-Talk. *Sutton, G.J.*, +, *TMC May 2020 1084-1095*
- Collusion-Resistant Jamming for Securing Legacy Clients in Wireless Networks. *Xie, D.*, +, *TMC Oct. 2020 2264-2277*
- Coverage Performance in MIMO-ZFBF Dense HetNets with Multiplexing and LOS/NLOS Path-Loss Attenuation. *Khoshkholgh, M.G.*, +, *TMC Sept. 2020 2044-2061*
- Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. *Huang, Y.*, +, *TMC April 2020 852-864*
- Hardware-Assisted, Low-Cost Video Transcoding Solution in Wireless Networks. *Yoon, J.*, +, *TMC March 2020 581-597*
- Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. *Scalabrin, M.*, +, *TMC May 2020 1138-1155*
- Minimizing Wireless Delay with a High-Throughput Side Channel. *Chen, R.*, +, *TMC July 2020 1634-1648*
- On Interference Dynamics in Matérn Networks. *Schilcher, U.*, +, *TMC July 2020 1677-1688*
- Optimized Neighbor Discovery for Opportunistic Networks of Energy Constrained IoT Devices. *Loreti, P.*, +, *TMC June 2020 1387-1400*
- Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. *Song, Y.*, +, *TMC July 2020 1689-1701*
- Optimizing mmWave Wireless Backhaul Scheduling. *Arribas, E.*, +, *TMC Oct. 2020 2409-2428*
- Per-Flow Radio Resource Management to Mitigate Interference in Dense IEEE 802.11 Wireless LANs. *Bouhafs, F.*, +, *TMC May 2020 1170-1183*
- Profit Maximization in 5G+ Networks with Heterogeneous Aerial and Ground Base Stations. *Azizi, A.*, +, *TMC Oct. 2020 2445-2460*
- SCsec: A Secure Near Field Communication System via Screen Camera Communication. *Zhao, J.*, +, *TMC Aug. 2020 1943-1955*
- Spatially-Consistent Human Body Blockage Modeling: A State Generation Procedure. *Gapeyenko, M.*, +, *TMC Sept. 2020 2221-2233*
- Traffic-Aware Backscatter Communications in Wireless-Powered Heterogeneous Networks. *Kim, S.H.*, +, *TMC July 2020 1731-1744*
- Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks. *Feng, B.*, +, *TMC Oct. 2020 2475-2488*

**Wireless communication**

- Adaptive Admission Control for IoT Applications in Home WiFi Networks. *Pokhrel, S.R.*, +, *TMC Dec. 2020 2731-2742*
- Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks. *Huang, L.*, +, *TMC Nov. 2020 2581-2593*

- Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. *Hsu, Y.*, +, *TMC Dec. 2020 2903-2915*

**Wireless fidelity**

- Adaptive Admission Control for IoT Applications in Home WiFi Networks. *Pokhrel, S.R.*, +, *TMC Dec. 2020 2731-2742*
- PASS: Reducing Redundant Notifications between a Smartphone and a Smartwatch for Energy Saving. *Lee, J.*, +, *TMC Nov. 2020 2656-2669*
- Residual Carrier Frequency Offset Estimation and Compensation for Commodity WiFi. *Chen, Y.*, +, *TMC Dec. 2020 2891-2902*
- Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. *Wang, Y.*, +, *TMC Nov. 2020 2714-2730*

**Wireless LAN**

- A Pragmatic Approach to Clear Channel Assessment Threshold Adaptation and Transmission Power Control for Performance Gain in CSMA/CA WLANs. *Jones, W.*, +, *TMC Feb. 2020 262-275*
- A Self-Evolving WiFi-based Indoor Navigation System Using Smartphones. *Zhang, Z.*, +, *TMC Aug. 2020 1760-1774*
- Auction-Based Data Transaction in Mobile Networks: Data Allocation Design and Performance Analysis. *Du, J.*, +, *TMC May 2020 1040-1055*
- CEDAR: A Cost-Effective Crowdsensing System for Detecting and Localizing Drones. *Yang, G.*, +, *TMC Sept. 2020 2028-2043*
- Coexistence Performance and Limits of Frame-Based Listen-Before-Talk. *Sutton, G.J.*, +, *TMC May 2020 1084-1095*
- Dynamic Channel Bonding in Spatially Distributed High-Density WLANs. *Barrachina-Munoz, S.*, +, *TMC April 2020 821-835*
- FlexVi: PHY Aided Flexible Multicast for Video Streaming over IEEE 802.11 WLANs. *Park, Y.D.*, +, *TMC Oct. 2020 2299-2315*
- Hidden-Node Problem in Full-Duplex Enabled CSMA Networks. *Liu, S.*, +, *TMC Feb. 2020 347-361*
- Image and WLAN Bimodal Integration for Indoor User Localization. *Redzic, M.D.*, +, *TMC May 2020 1109-1122*
- Low Complexity Online Radio Access Technology Selection Algorithm in LTE-WiFi HetNet. *Roy, A.*, +, *TMC Feb. 2020 376-389*
- Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. *Scalabrin, M.*, +, *TMC May 2020 1138-1155*
- MPWiFi: Synergizing MPTCP Based Simultaneous Multipath Access and WiFi Network Performance. *Palash, M.R.*, +, *TMC Jan. 2020 142-158*
- Passive Crowd Speed Estimation in Adjacent Regions With Minimal WiFi Sensing. *Depaila, S.*, +, *TMC Oct. 2020 2429-2444*
- Per-Flow Radio Resource Management to Mitigate Interference in Dense IEEE 802.11 Wireless LANs. *Bouhafs, F.*, +, *TMC May 2020 1170-1183*
- Revealing Your Mobile Password via WiFi Signals: Attacks and Countermeasures. *Meng, Y.*, +, *TMC Feb. 2020 432-449*
- Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S.*, +, *TMC Sept. 2020 2234-2249*
- Turning Waste into Wealth: Free Control Message Transmissions in Indoor WiFi Networks. *Feng, B.*, +, *TMC Oct. 2020 2475-2488*
- ViFi: Virtual Fingerprinting WiFi-Based Indoor Positioning via Multi-Wall Multi-Floor Propagation Model. *Caso, G.*, +, *TMC June 2020 1478-1491*

**Wireless personal area networks**

- Blockage Aware Fair Scheduling with Differentiated Service Support in mmWave WPANs/WLANs. *Lakshmi, L.R.*, +, *TMC Nov. 2020 2562-2580*

**Wireless sensor networks**

- A High-Availability Data Collection Scheme based on Multi-AUVs for Underwater Sensor Networks. *Han, G.*, +, *TMC May 2020 1010-1022*
- Bird-MAC: Energy-Efficient MAC for Quasi-Periodic IoT Applications by Avoiding Early Wake-up. *Kim, D.*, +, *TMC April 2020 788-802*
- CHASE: Charging and Scheduling Scheme for Stochastic Event Capture in Wireless Rechargeable Sensor Networks. *Dai, H.*, +, *TMC Jan. 2020 44-59*
- Cost Effective Directional Barrier Construction Based on Zooming and United Probabilistic Detection. *Fan, X.*, +, *TMC July 2020 1555-1569*
- Deep Reinforcement Learning for Online Computation Offloading in Wireless Powered Mobile-Edge Computing Networks. *Huang, L.*, +, *TMC Nov. 2020 2581-2593*
- Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. *Gao, X.*, +, *TMC June 2020 1332-1345*

FRCA: A Novel Flexible Routing Computing Approach for Wireless Sensor Networks. *Liu, P., +, TMC Nov. 2020 2623-2639*

Never Use Labels: Signal Strength-Based Bayesian Device-Free Localization in Changing Environments. *Hillyard, P., +, TMC April 2020 894-906*

Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. *Song, Y., +, TMC July 2020 1689-1701*

Shortest-Latency Opportunistic Routing in Asynchronous Wireless Sensor Networks with Independent Duty-Cycling. *Zhang, X., +, TMC March 2020 711-723*

Target Detection and Localization Methods Using Compartmental Model for Internet of Things. *Kumar, S., +, TMC Sept. 2020 2234-2249*

Theoretical Framework for Estimating Target-Object Shape by Using Location-Unknown Mobile Distance Sensors. *Saito, H., +, TMC May 2020 1233-1246*

Unraveling Impact of Critical Sensing Range on Mobile Camera Sensor Networks. *Gan, X., +, TMC April 2020 982-996*

#### **Word processing**

Mobile Devices based Eavesdropping of Handwriting. *Yu, T., +, TMC July 2020 1649-1663*