

# 2023 Index

## Journal of Communications and Networks, Volume 25

This index covers all papers that appeared in JCN during 2023. The Author Index contains the primary entry for each item, listed under the first author's name, and cross-references from all coauthors. The Title Index contains paper titles for each Division in the alphabetical order from No. 1 to No. 6. Please refer to the primary entry in the Author Index for the exact title, coauthors, and comments / corrections.

### AUTHOR INDEX

#### A

- Abbasi Q. H.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.  
**Ahn H.**, Lee H., and Park Y. D., AUB: A Full-Duplex MAC Protocol for the Efficient Utilization of the Idle Uplink Period in WLAN; *Dec.* 23, pp. 750-759.  
**Ahn Y.**, *see* Kim W., *Feb.* 23, pp. 61-75.  
**Akkoç M.**, *see* Ariman M., *Feb.* 23, pp. 25-34.  
**Alcaraz-Calero J. M.**, *see* Chirivella-Perez E., *Jun.* 23, pp. 392-404.  
**Alouini M.-S.**, *see* Na D.-H., *Apr.* 23, pp. 232-243.  
**Ariman M.**, Akkoç M., Sarı T. T., Erol M. R., Seçinti G., and Canberk B., Energy-Efficient RL-Based Aerial Network Deployment Testbed for Disaster Areas; *Feb.* 23, pp. 25-34.  
**Asad S. M.**, Klaine P. V., Rais R. N. B., Mollel M. S., Hussain S., Abbasi Q. H., and Imran M. A., Context-Aware Handover Skipping for Train Passengers in Next Generation Wireless Networks; *Jun.* 23, pp. 285-298.  
**Assaad M.**, *see* Doncel J., *Oct.* 23, pp. 643-656.  
**Ayan O.**, *see* Kutsevol P., *Oct.* 23, pp. 688-698.

#### B

- Badirzadeh A.**, *see* Siapoush M. S., *Feb.* 23, pp. 110-119.  
**Bai Z.**, *see* You H., *Feb.* 23, pp. 15-24.  
**Banerjee S.**, *see* Ulukus S., *Oct.* 23, pp. 556-569.  
**Burleigh S. C.**, *see* Koo C. H., *Aug.* 23, pp. 516-531.

#### C

- Canberk B.**, *see* Ariman M., *Feb.* 23, pp. 25-34.  
**Cañete F. J.**, *see* Cortés J. A., *Apr.* 23, pp. 151-166.  
**Casals L.**, Gomez C., and Vidal R., Understanding the Impact of Packet Size on the Energy Efficiency of LoRaWAN; *Dec.* 23, pp. 814-824.  
**Chae C.-B.**, *see* Lee C., *Apr.* 23, pp. 222-231.  
**Chae S. H.**, Lim H., Lee H., and Jung B. C., Performance Analysis of Dense Low Earth Orbit Satellite Communication Networks with Stochastic Geometry; *Apr.* 23, pp. 208-221.  
**Chai L.**, *see* Yue C., *Aug.* 23, pp. 469-479.  
**Chan T.-T.** and Pan H., Enhancing Information Freshness for Coordinated Direct and Relay Transmission; *Jun.* 23, pp. 312-

#### 321.

- Chang S.**, *see* Ho P.-H., *Dec.* 23, pp. 722-733.  
**Chen G.**, *see* Deng T., *Apr.* 23, pp. 197-207.  
**Chen W.**, *see* Hui H., *Oct.* 23, pp. 598-620.  
**Chen Y.**, *see* Deng T., *Apr.* 23, pp. 197-207.  
**Chen Y.**, *see* Li Y., *Jun.* 23, pp. 370-380.  
**Chen Y.**, *see* Tang H., *Oct.* 23, pp. 670-687.  
**Cheng J.**, Huang S.-S., Chou H.-H., and Tang M.-C., On the Maximum Buffer Size Achieved in a Class of Constructions of Optical Priority Queues; *Aug.* 23, pp. 429-439.  
**Chirivella-Perez E.**, Salva-Garcia P., Sanchez-Navarro I., Alcaraz-Calero J. M., and Wang Q., E2E Network Slice Management Framework for 5G Multi-tenant Networks; *Jun.* 23, pp. 392-404.  
**Chou H.-H.**, *see* Cheng J., *Aug.* 23, pp. 429-439.  
**Chung H.**, Kim D., Kim J. H., and Kim J., Amortized Efficient zk-SNARK from Linear-Only RLWE Encodings; *Jun.* 23, pp. 271-284.  
**Codreanu M.**, *see* Vilni S. S., *Oct.* 23, pp. 585-597.  
**Cortés J. A.**, Cañete F. J., and Díez L., Channel Estimation for OFDM-based Indoor Broadband Power Line Communication Systems; *Apr.* 23, pp. 151-166.  
**Costa M.** and Sagduyu Y., Timely and Covert Communications under Deep Learning-Based Eavesdropping and Jamming Effects; *Oct.* 23, pp. 621-630.

#### D

- Deep V.**, *see* Qiao D., *Dec.* 23, pp. 806-813.  
**Deng T.**, Chen Y., Chen G., Yang M., and Du L., Task Offloading Based on Edge Collaboration in MEC-Enabled IoV Networks; *Apr.* 23, pp. 197-207.  
**Dey S.**, *see* Jung S., *Aug.* 23, pp. 491-506.  
**Díez L.**, *see* Cortés J. A., *Apr.* 23, pp. 151-166.  
**Doncel J.**, Gandarias B., and Assaad M., On the Age of Information of Processor Sharing Queueing Systems; *Oct.* 23, pp. 643-656.  
**Dong Y.**, *see* Li L., *Jun.* 23, pp. 402-418.  
**Du L.**, *see* Deng T., *Apr.* 23, pp. 197-207.  
**Duwe H.**, *see* Qiao D., *Dec.* 23, pp. 806-813.

#### E

- Ephremides A.**, *see* Ulukus S., *Oct.* 23, pp. 556-569.  
**Erol M. R.**, *see* Ariman M., *Feb.* 23, pp. 25-34.

#### F

- Fan C.**, *see* Li Y., *Jun.* 23, pp. 370-380.  
**Fan P.**, *see* Li L., *Jun.* 23, pp. 402-418.  
**Forster A.**, *see* Karunananayake P. N., *Feb.* 23, pp. 76-87.  
**Fu S.**, *see* Qiao D., *Dec.* 23, pp. 806-813.

## G

- Gandarias B.**, *see* Doncel J., *Oct.* 23, pp. 643-656.  
**Gholami S.** and Harutyunyan H. A., HUB-GA: A Heuristic for Universal Lists Broadcasting Using Genetic Algorithm; *Feb.* 23, pp. 88-109.  
**Gnawali O.**, *see* Park M., *Feb.* 23, pp. 131-139.  
**Gomez C.**, *see* Casals L., *Dec.* 23, pp. 814-824.  
**Gong Y.**, Wei Y., Yu F. R., and Han Z., Slicing-Based Resource Optimization in Multi-Access Edge Network Using EnsembleLearning Aided DDPG Algorithm; *Feb.* 23, pp. 1-14.  
**Guo L.**, *see* Yu Y., *Feb.* 23, pp. 50-60.

## H

- Ha Y.-S.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Han Y.-J.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Han Z.**, *see* Gong Y., *Feb.* 23, pp. 1-14.  
**Harutyunyan H. A.**, *see* Gholami S., *Feb.* 23, pp. 88-109.  
**He Y.**, *see* Jia Z., *Aug.* 23, pp. 532-543.  
**Ho P.-H.**, Rahim S., Peng L., and Chang S., On Collaborative Multi-UAV Trajectory Planning for Data Collection; *Dec.* 23, pp. 722-733.  
**Hsieh Y.-T.**, Qi Z., and Pompili D., Full-Duplex Underwater Acoustic Communications via Self-Interference Cancellation in Space; *Apr.* 23, pp. 167-181.  
**Huang J.**, *see* Xia H., *Aug.* 23, pp. 507-515.  
**Huang S.-S.**, *see* Cheng J., *Aug.* 23, pp. 429-439.  
**Hui H.**, Wei S., and Chen W., Fresh Multiple Access: A Unified Framework Based on Large Models and Mean-Field Approximations; *Oct.* 23, pp. 598-620.  
**Hussain S.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.

## I

- Imran M. A.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.  
**Ivanov F.**, *see* Timokhin I., *Dec.* 23, pp. 760-777.

## J

- Jamali S.**, *see* Siapoush M. S., *Feb.* 23, pp. 110-119.  
**Jeong G.**, *see* Park M., *Feb.* 23, pp. 131-139.  
**Jia Z.**, Liu Q., He Y., Wu Q., Liu R. P., and Sun Y., Efficient End-to-End Failure Probing Matrix Construction in Data Center Networks; *Aug.* 23, pp. 532-543.  
**Jiang Z.**, *see* Shi Y., *Aug.* 23, pp. 456-468.  
**Jibreel N.**, *see* Mesleh R., *Dec.* 23, pp. 711-721.  
**Jin L.**, *see* Yin F., *Jun.* 23, pp. 322-332.  
**Jones N.**, *see* Tripathi V., *Oct.* 23, pp. 556-569.  
**Jung B. C.**, *see* Chae S. H., *Apr.* 23, pp. 208-221.  
**Jung S.**, Kim H., Zhang X., and Dey S., GaMiCO: Game-slicing based Multi-interface Computation Offloading in 5G Vehicular Networks; *Aug.* 23, pp. 491-506.  
**Jung S.**, *see* Kim T.-Y., *Jun.* 23, pp. 333-343.

## K

- Karunananayake P. N.**, Konsgen A., Weerawardane T., and Forster

A., Q Learning Based Adaptive Protocol Parameters for WSNs; *Feb.* 23, pp. 76-87.

- Kellerer W.**, *see* Kutsevol P., *Oct.* 23, pp. 688-698.  
**Kim D.**, *see* Chung H., *Jun.* 23, pp. 271-284.  
**Kim D.-S.**, *see* Tran-Dang H., *Apr.* 23, pp. 244-252.  
**Kim D.-S.**, *see* Tran-Dang H., *Feb.* 23, pp. 120-130.  
**Kim H.**, *see* Jung S., *Aug.* 23, pp. 491-506.  
**Kim J. H.**, *see* Chung H., *Jun.* 23, pp. 271-284.  
**Kim J.**, *see* Chung H., *Jun.* 23, pp. 271-284.  
**Kim J.**, *see* Kim W., *Feb.* 23, pp. 61-75.  
**Kim J.**, *see* Lee H., *Jun.* 23, pp. 344-354.  
**Kim J.-H.**, *see* Kim T.-Y., *Jun.* 23, pp. 333-343.  
**Kim J.-K.**, *see* Kim T.-Y., *Jun.* 23, pp. 333-343.  
**Kim K.-H.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Kim S.**, *see* Lee H., *Jun.* 23, pp. 344-354.  
**Kim S.**, *see* Orikumhi I., *Feb.* 23, pp. 35-49.  
**Kim T. Y.**, *see* Solat F., *Aug.* 23, pp. 480-490.  
**Kim T.-Y.**, Kim J.-K., Lee W.-J., Jung S., and Kim J.-H., Energy-Efficient Full-Duplex MAC Protocol Design for Air-Terrestrial Communication; *Jun.* 23, pp. 333-343.  
**Kim W.**, Ahn Y., Kim J., and Shim B., Towards Deep Learning-aided Wireless Channel Estimation and Channel State InformationFeedback for 6G; *Feb.* 23, pp. 61-75.  
**Kimaryo S.** and Lee K., Low-Complexity IRS Beamforming Based on Sphere Decoding and Tabu Search; *Jun.* 23, pp. 299-311.  
**Klaine P. V.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.  
**Ko Y.-C.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Ko Y.-C.**, *see* Na D.-H., *Apr.* 23, pp. 232-243.  
**Kompella S.**, *see* Sun Y., *Oct.* 23, pp. 570-584.  
**Konsgen A.**, *see* Karunananayake P. N., *Feb.* 23, pp. 76-87.  
**Koo B.-H.**, *see* Lee C., *Apr.* 23, pp. 222-231.  
**Koo C. H.** and Burleigh S. C., Aggressive and Proactive LTP Control Signal Handling for Minimal Session Delivery Time: RTT Rules the World; *Aug.* 23, pp. 516-531.  
**Kountouris M.**, *see* Pappas N., *Oct.* 23, pp. 657-669.  
**Kutsevol P.**, Ayan O., and Kellerer W., Control-Aware Scheduling over Multi-hop Networks; *Oct.* 23, pp. 688-698.  
**Kwak K. S.**, *see* You H., *Feb.* 23, pp. 15-24.  
**Kwon J.-H.**, *see* Lim B., *Aug.* 23, pp. 440-455.

## L

- Lee B.**, *see* Lee H., *Jun.* 23, pp. 344-354.  
**Lee C.**, Koo B.-H., Chae C.-B., and Schober R., The Internet of Bio-Nano Things in Blood Vessels: System Design and Prototypes; *Apr.* 23, pp. 222-231.  
**Lee H.**, Lee B., Yang H., Kim J., Kim S., Shin W., Shim B., and Poor H. V., Towards 6G Hyper-Connectivity: Vision, Challenges, and Key Enabling Technologies; *Jun.* 23, pp. 344-354.  
**Lee H.**, *see* Ahn H., *Dec.* 23, pp. 750-759.  
**Lee H.**, *see* Chae S. H., *Apr.* 23, pp. 208-221.  
**Lee J.**, *see* Solat F., *Aug.* 23, pp. 480-490.  
**Lee J.-H.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Lee J.-M.**, *see* Lim B., *Aug.* 23, pp. 440-455.  
**Lee K.**, *see* Kimaryo S., *Jun.* 23, pp. 299-311.  
**Lee S.-H.** and Liu J.-Z., A Pluggable Module for Enabling a Trusted Edge Device Management System Based on Microservice; *Jun.* 23, pp. 381-391.  
**Lee W.-J.**, *see* Kim T.-Y., *Jun.* 23, pp. 333-343.  
**Leinonen M.**, *see* Vilni S. S., *Oct.* 23, pp. 585-597.  
**Leow C. Y.**, *see* Orikumhi I., *Feb.* 23, pp. 35-49.  
**Li L.**, Dong Y., Pan C., and Fan P., Timeliness of Wireless Sensor Networks with Random Multiple Access; *Jun.* 23, pp. 402-418.

- Li Y.**, Fan C., Zhang X., and Chen Y., Placement of Parameter Server in Wide Area Network Topology for Geo-Distributed Machine Learning; *Jun.* 23, pp. 370-380.
- Lim B.**, Lee J.-H., Kwon J.-H., Kim K.-H., Lee J.-M., Park H., Ha Y.-S., Han Y.-J., and Ko Y.-C., Joint Association and Resource Allocation for Multi-Hop Integrated Access and Backhaul (IAB) Network; *Aug.* 23, pp. 440-455.
- Lim H.**, *see* Chae S. H., *Apr.* 23, pp. 208-221.
- Liu D.**, *see* Yin F., *Jun.* 23, pp. 322-332.
- Liu H.**, *see* You H., *Feb.* 23, pp. 15-24.
- Liu J.**, *see* Xia H., *Aug.* 23, pp. 507-515.
- Liu J.-Z.**, *see* Lee S.-H., *Jun.* 23, pp. 381-391.
- Liu P.**, *see* Xia H., *Aug.* 23, pp. 507-515.
- Liu Q.**, *see* Jia Z., *Aug.* 23, pp. 532-543.
- Liu R. P.**, *see* Jia Z., *Aug.* 23, pp. 532-543.
- Liyanage M.**, *see* Wijethilaka S., *Jun.* 23, pp. 355-369.
- Luangwilai T.** and Thammawichai M., An Energy-Optimization Topology Control for Three-Dimensional Wireless Sensor Networks; *Dec.* 23, pp. 778-788.

## M

- Martín Á.**, *see* Uriol J., *Dec.* 23, pp. 789-805.
- Mesleh R.**, Jibreel N., and Younis A., Capacity Analysis of Index Modulation Multiple Access System; *Dec.* 23, pp. 711-721.
- Modiano E.**, *see* Tripathi V., *Oct.* 23, pp. 556-569.
- Mogollón J. F.**, *see* Uriol J., *Dec.* 23, pp. 789-805.
- Mollel M. S.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.
- Molafet M.**, *see* Vilni S. S., *Oct.* 23, pp. 585-597.
- Montalbán J.**, *see* Uriol J., *Dec.* 23, pp. 789-805.

## N

- Na D.-H.**, Park K.-H., Ko Y.-C., and Alouini M.-S., Multigateway Precoded NOMA in Multibeam Satellite Multicast Systems; *Apr.* 23, pp. 232-243.
- Narayanan V.**, *see* Qiao D., *Dec.* 23, pp. 806-813.
- Nguyen D. T.**, *see* Nguyen V.-H., *Dec.* 23, pp. 734-749.
- Nguyen V.-H.** and Nguyen D. T., EE-TLT: Energy-Efficient Routing Protocol Using Two-Level Tree-Based Clustering in Wireless Sensor Network; *Dec.* 23, pp. 734-749.

## O

- Orikumhi I.**, Leow C. Y., and Kim S., Location-Aided User Selection and Sum-RateAnalysis for mmWave NOMA; *Feb.* 23, pp. 35-49

## P

- Paek J.**, *see* Park M., *Feb.* 23, pp. 131-139.
- Pan C.**, *see* Li L., *Jun.* 23, pp. 402-418.
- Pan H.**, *see* Chan T.-T., *Jun.* 23, pp. 312-321.
- Pan J.**, *see* Wu W., *Dec.* 23, pp. 825-840.
- Pappas N.**, Salimnejad M., and Kountouris M., State-aware Real-time Tracking and Remote Reconstruction of a Markov Source; *Oct.* 23, pp. 657-669.
- Park H.**, *see* Lim B., *Aug.* 23, pp. 440-455.
- Park K.-H.**, *see* Na D.-H., *Apr.* 23, pp. 232-243.

- Park M.**, Jeong G., Gnawali O., and Paek J., RPL Objective Function for Multihop PLC Network; *Feb.* 23, pp. 131-139.
- Park Y. D.**, *see* Ahn H., *Dec.* 23, pp. 750-759.
- Paul L. M.**, *see* Waweru D. K., *Apr.* 23, pp. 182-196.
- Peng L.**, *see* Ho P.-H., *Dec.* 23, pp. 722-733.
- Pompili D.**, *see* Hsieh Y.-T., *Apr.* 23, pp. 167-181.
- Poor H. V.**, *see* Lee H., *Jun.* 23, pp. 344-354.

## Q

- Qi Z.**, *see* Hsieh Y.-T., *Apr.* 23, pp. 167-181.
- Qiao D.**, Fu S., Narayanan V., Wymore M., Deep V., and Duwe H., No Battery, No Problem: Challenges and Opportunities in Batteryless Intermittent Networks; *Dec.* 23, pp. 806-813.

## R

- Rahim S.**, *see* Ho P.-H., *Dec.* 23, pp. 722-733.
- Rais R. N. B.**, *see* Asad S. M., *Jun.* 23, pp. 285-298.

## S

- Sagduyu Y.**, *see* Costa M., *Oct.* 23, pp. 621-630.
- Salimnejad M.**, *see* Pappas N., *Oct.* 23, pp. 657-669.
- Salva-Garcia P.**, *see* Chirivella-Perez E., *Jun.* 23, pp. 392-404.
- Sanchez-Navarro I.**, *see* Chirivella-Perez E., *Jun.* 23, pp. 392-404.
- Sari T. T.**, *see* Ariman M., *Feb.* 23, pp. 25-34.
- Schober R.**, *see* Lee C., *Apr.* 23, pp. 222-231.
- Seçinti G.**, *see* Ariman M., *Feb.* 23, pp. 25-34.
- Seron M.**, *see* Uriol J., *Dec.* 23, pp. 789-805.
- Shi Y.**, Wang X., and Jiang Z., Channel Prediction Based on Non-Uniform Pilot Pattern for Mobile Massive MIMO Scenarios; *Aug.* 23, pp. 456-468.
- Shim B.**, *see* Kim W., *Feb.* 23, pp. 61-75.
- Shim B.**, *see* Lee H., *Jun.* 23, pp. 344-354.
- Shin W.**, *see* Lee H., *Jun.* 23, pp. 344-354.
- Siapoush M. S.**, Jamali S., and Badirzadeh A., Software-Defined Networking Enabled Big Data Tasks Scheduling: A Tabu Search Approach; *Feb.* 23, pp. 110-119.
- Solat F.**, Kim T. Y., and Lee J., A Novel Group Management Scheme of Clustered Federated Learning for Mobile Traffic Prediction in Mobile Edge Computing Systems; *Aug.* 23, pp. 480-490.
- Sun Y.** and Kompella S., Age-Optimal Multi-Flow Status Updating with Errors: A Sample-Path Approach; *Oct.* 23, pp. 570-584.
- Sun Y.**, *see* Jia Z., *Aug.* 23, pp. 532-543.

## T

- Tang H.**, Chen Y., Wang J., Yang P., and Tassiulas L., Sampling for Remote Estimation of an Ornstein-Uhlenbeck Process through Channel with Unknown Delay Statistics; *Oct.* 23, pp. 670-687.
- Tang H.**, *see* Yue C., *Aug.* 23, pp. 469-479.
- Tang M.-C.**, *see* Cheng J., *Aug.* 23, pp. 429-439.
- Tassiulas L.**, *see* Tang H., *Oct.* 23, pp. 670-687.
- Thammawichai M.**, *see* Luangwilai T., *Dec.* 23, pp. 778-788.
- Timokhin I.** and Ivanov F., Overview of various methods for decoding and constructing critical sets of polar codes; *Dec.* 23, pp. 760-777.

- Tran-Dang H.** and Kim D.-S., DISCO: Distributed Computation Offloading Framework for Fog Computing Networks; *Feb.* 23, pp. 120-130.
- Tran-Dang H.** and Kim D.-S., Dynamic Collaborative Task Offloading for Delay Minimization in the Heterogeneous Fog Computing Systems; *Apr.* 23, pp. 244-252.
- Tripathi V.**, Jones N., and Modiano E., Fresh-CSMA: A Distributed Protocol for Minimizing Age of Information; *Oct.* 23, pp. 556-569.
- Tsiftsis T. A.**, *see* You H., *Feb.* 23, pp. 15-24.

## U

- Ulukus S.**, Banerjee S., and Ephremides A., Age of Information Games Between Power Constrained Schedulers and Adversaries; *Oct.* 23, pp. 556-569.
- Uriol J.**, Mogollón J. F., Seron M., Viola R., Martín Á., Zorilla M., and Montalbán J., Predictive Path Routing Algorithm for low-latency traffic in NFV-based experimental testbed.; *Dec.* 23, pp. 789-805.

## V

- Vidal R.**, *see* Casals L., *Dec.* 23, pp. 814-824.
- Vilni S. S.**, Moltafet M., Leinonen M., and Codreanu M., AoI Analysis and Optimization in Systems with Computations-Intensive Updates; *Oct.* 23, pp. 585-597.
- Viola R.**, *see* Uriol J., *Dec.* 23, pp. 789-805.

## W

- Wang A.**, *see* Yin F., *Jun.* 23, pp. 322-332.
- Wang J.**, *see* Tang H., *Oct.* 23, pp. 670-687.
- Wang P.**, *see* Yu Y., *Feb.* 23, pp. 50-60.
- Wang Q.**, *see* Chirivella-Perez E., *Jun.* 23, pp. 392-404.
- Wang X.**, *see* Shi Y., *Aug.* 23, pp. 456-468.
- Waweru D. K.**, Yang F., Zhao C., Paul L. M., and Xu H., Distributed Totally Decomposed Cumulative Goppa Coded-Cooperative Communication with Optimized Selection in the Relay; *Apr.* 23, pp. 182-196.
- Weerawardane T.**, *see* Karunananayake P. N., *Feb.* 23, pp. 76-87.
- Wei S.**, *see* Hui H., *Oct.* 23, pp. 598-620.
- Wei Y.**, *see* Gong Y., *Feb.* 23, pp. 1-14.
- Wijethilaka S.** and Liyanage M., The Role of Security Orchestrator in Network Slicing for Future Networks; *Jun.* 23, pp. 355-369.
- Wu K.**, *see* Xu K., *Apr.* 23, pp. 253-260.
- Wu Q.**, *see* Jia Z., *Aug.* 23, pp. 532-543.
- Wu W.**, Zhang X., Pan J., and Zhou Y., Joint Optimization of Time-Slot Allocation and Traffic Steering for Large-Scale Deterministic Networks; *Dec.* 23, pp. 825-840.
- Wymore M.**, *see* Qiao D., *Dec.* 23, pp. 806-813.

## X

- Xia H.**, Zha S., Huang J., Liu J., and Liu P., Spectrum Cartography Based on Dynamic Compressed Sensing by Using Multiple Domains Information; *Aug.* 23, pp. 507-515.
- Xu H.**, *see* Waweru D. K., *Apr.* 23, pp. 182-196.

- Xu K.**, Wu K., and Zhou R., Probability Weighting Effect in Vertex Cover of Networks Via Prospect-Theoretic Learning; *Apr.* 23, pp. 253-260.

## Y

- Yang F.**, *see* Waweru D. K., *Apr.* 23, pp. 182-196.
- Yang H.**, *see* Lee H., *Jun.* 23, pp. 344-354.
- Yang J.**, *see* Yue C., *Aug.* 23, pp. 469-479.
- Yang M.**, *see* Deng T., *Apr.* 23, pp. 197-207.
- Yang P.**, *see* Tang H., *Oct.* 23, pp. 670-687.
- Yin F.**, Wang A., Zhang Y., Liu D., and Jin L., Reliability Enhancement for Multimedia Delivery in Caching-Assisted MmWave HetNets; *Jun.* 23, pp. 322-332.
- Ying J.**, *see* Yu Y., *Feb.* 23, pp. 50-60.
- You H.**, Bai Z., Liu H., Tsiftsis T. A., and Kwak K. S., Rate-Splitting for Intelligent Reflecting Surface-Assisted CR-NOMA Systems; *Feb.* 23, pp. 15-24.
- Younis A.**, *see* Mesleh R., *Dec.* 23, pp. 711-721.
- Yu F. R.**, *see* Gong Y., *Feb.* 23, pp. 1-14.
- Yu Y.**, Ying J., Wang P., and Guo L., A Data-Driven Deep Learning Network for Massive MIMO Detection with High-order QAM; *Feb.* 23, pp. 50-60.
- Yue C.**, Tang H., Yang J., and Chai L., A Generalized CNN Model with Automatic Hyperparameter Tuning for Millimeter Wave Channel Prediction; *Aug.* 23, pp. 469-479.

## Z

- Zha S.**, *see* Xia H., *Aug.* 23, pp. 507-515.
- Zhang X.**, *see* Jung S., *Aug.* 23, pp. 491-506.
- Zhang X.**, *see* Li Y., *Jun.* 23, pp. 370-380.
- Zhang X.**, *see* Wu W., *Dec.* 23, pp. 825-840.
- Zhang Y.**, *see* Yin F., *Jun.* 23, pp. 322-332.
- Zhao C.**, *see* Waweru D. K., *Apr.* 23, pp. 182-196.
- Zhou R.**, *see* Xu K., *Apr.* 23, pp. 253-260.
- Zhou Y.**, *see* Wu W., *Dec.* 23, pp. 825-840.
- Zorilla M.**, *see* Uriol J., *Dec.* 23, pp. 789-805.

## TITLE INDEX

## Communication Theory and Systems (Division I)

- Channel Estimation for OFDM-based Indoor Broadband Power Line Communication Systems; *Apr.* 23, pp. 151-166.
- Full-Duplex Underwater Acoustic Communications via Self-Interference Cancellation in Space; *Apr.* 23, pp. 167-181.
- Distributed Totally Decomposed Cumulative Goppa Coded-Cooperative Communication with Optimized Selection in the Relay; *Apr.* 23, pp. 182-196.
- Amortized Efficient zk-SNARK from Linear-Only RLWE Encodings; *Jun.* 23, pp. 271-284.
- On the Maximum Buffer Size Achieved in a Class of Constructions of Optical Priority Queues; *Aug.* 23, pp. 429-439.
- Capacity Analysis of Index Modulation Multiple Access System; *Dec.* 23, pp. 711-721.

Wireless Sensor Networks; *Dec.* 23, pp. 778-788.

## Wireless Communications (Division II)

- Slicing-Based Resource Optimization in Multi-Access Edge Network Using Ensemble Learning Aided DDPG Algorithm; *Feb.* 23, pp. 1-14.
- Rate-Splitting for Intelligent Reflecting Surface-Assisted CR-NOMA Systems; *Feb.* 23, pp. 15-24.
- Energy-Efficient RL-Based Aerial Network Deployment Testbed for Disaster Areas; *Feb.* 23, pp. 25-34.
- Location-Aided User Selection and Sum-Rate Analysis for mmWave NOMA; *Feb.* 23, pp. 35-49
- A Data-Driven Deep Learning Network for Massive MIMO Detection with High-order QAM; *Feb.* 23, pp. 50-60.
- Towards Deep Learning-aided Wireless Channel Estimation and Channel State Information Feedback for 6G; *Feb.* 23, pp. 61-75.
- Q Learning Based Adaptive Protocol Parameters for WSNs; *Feb.* 23, pp. 76-87.
- HUB-GA: A Heuristic for Universal Lists Broadcasting Using Genetic Algorithm; *Feb.* 23, pp. 88-109.
- Task Offloading Based on Edge Collaboration in MEC-Enabled IoT Networks; *Apr.* 23, pp. 197-207.
- Performance Analysis of Dense Low Earth Orbit Satellite Communication Networks with Stochastic Geometry; *Apr.* 23, pp. 208-221.
- The Internet of Bio-Nano Things in Blood Vessels: System Design and Prototypes; *Apr.* 23, pp. 222-231.
- Multigateway Precoded NOMA in Multibeam Satellite Multicast Systems; *Apr.* 23, pp. 232-243.
- Context-Aware Handover Skipping for Train Passengers in Next Generation Wireless Networks; *Jun.* 23, pp. 285-298.
- Low-Complexity IRS Beamforming Based on Sphere Decoding and Tabu Search; *Jun.* 23, pp. 299-311.
- Enhancing Information Freshness for Coordinated Direct and Relay Transmission; *Jun.* 23, pp. 312-321.
- Reliability Enhancement for Multimedia Delivery in Caching-Assisted MmWave HetNets; *Jun.* 23, pp. 322-332.
- Energy-Efficient Full-Duplex MAC Protocol Design for Air-Terrestrial Communication; *Jun.* 23, pp. 333-343.
- Towards 6G Hyper-Connectivity: Vision, Challenges, and Key Enabling Technologies; *Jun.* 23, pp. 344-354.
- Joint Association and Resource Allocation for Multi-Hop Integrated Access and Backhaul (IAB) Network; *Aug.* 23, pp. 440-455.
- Channel Prediction Based on Non-Uniform Pilot Pattern for Mobile Massive MIMO Scenarios; *Aug.* 23, pp. 456-468.
- A Generalized CNN Model with Automatic Hyperparameter Tuning for Millimeter Wave Channel Prediction; *Aug.* 23, pp. 469-479.
- A Novel Group Management Scheme of Clustered Federated Learning for Mobile Traffic Prediction in Mobile Edge Computing Systems; *Aug.* 23, pp. 480-490.
- GaMiCO: Game-slicing based Multi-interface Computation Offloading in 5G Vehicular Networks; *Aug.* 23, pp. 491-506.
- Spectrum Cartography Based on Dynamic Compressed Sensing by Using Multiple Domains Information; *Aug.* 23, pp. 507-515.
- On Collaborative Multi-UAV Trajectory Planning for Data Collection; *Dec.* 23, pp. 722-733.
- EE-TLT: Energy-Efficient Routing Protocol Using Two-Level Tree-Based Clustering in Wireless Sensor Network; *Dec.* 23, pp. 734-749.
- AUB: A Full-Duplex MAC Protocol for the Efficient Utilization of the Idle Uplink Period in WLAN; *Dec.* 23, pp. 750-759.
- Overview of various methods for decoding and constructing critical sets of polar codes; *Dec.* 23, pp. 760-777.
- An Energy-Optimization Topology Control for Three-Dimensional

## Networks and Services (Division III)

- Software-Defined Networking Enabled Big Data Tasks Scheduling: A Tabu Search Approach; *Feb.* 23, pp. 110-119.
- DISCO: Distributed Computation Offloading Framework for Fog Computing Networks; *Feb.* 23, pp. 120-130.
- RPL Objective Function for Multihop PLC Network; *Feb.* 23, pp. 131-139.
- Dynamic Collaborative Task Offloading for Delay Minimization in the Heterogeneous Fog Computing Systems; *Apr.* 23, pp. 244-252.
- Probability Weighting Effect in Vertex Cover of Networks Via Prospect-Theoretic Learning; *Apr.* 23, pp. 253-260.
- The Role of Security Orchestrator in Network Slicing for Future Networks; *Jun.* 23, pp. 355-369.
- Placement of Parameter Server in Wide Area Network Topology for Geo-Distributed Machine Learning; *Jun.* 23, pp. 370-380.
- A Pluggable Module for Enabling a Trusted Edge Device Management System Based on Microservice; *Jun.* 23, pp. 381-391.
- E2E Network Slice Management Framework for 5G Multi-tenant Networks; *Jun.* 23, pp. 392-404.
- Timeliness of Wireless Sensor Networks wth Random Multiple Access; *Jun.* 23, pp. 402-418.
- Aggressive and Proactive LTP Control Signal Handling for Minimal Session Delivery Time: RTT Rules the World; *Aug.* 23, pp. 516-531.
- Efficient End-to-End Failure Probing Matrix Construction in Data Center Networks; *Aug.* 23, pp. 532-543.
- Predictive Path Routing Algorithm for low-latency traffic in NFV-based experimental testbed.; *Dec.* 23, pp. 789-805.
- No Battery, No Problem: Challenges and Opportunities in Batteryless Intermittent Networks; *Dec.* 23, pp. 806-813.
- Understanding the Impact of Packet Size on the Energy Efficiency of LoRaWAN; *Dec.* 23, pp. 814-824.
- Joint Optimization of Time-Slot Allocation and Traffic Steering for Large-Scale Deterministic Networks; *Dec.* 23, pp. 825-840.

## A FESTSCHRIFT IN HONOR OF PROF. ANTHONY EPHREMIDES' 80TH BIRTHDAY: A JOURNEY FROM AGE OF INFORMATION TO SEMANTICS OF INFORMATION (Special Issue)

- Fresh-CSMA: A Distributed Protocol for Minimizing Age of Information; *Oct.* 23, pp. 556-569.
- Age-Optimal Multi-Flow Status Updating with Errors: A Sample-Path Approach; *Oct.* 23, pp. 570-584.
- AoI Analysis and Optimization in Systems with Computations-Intensive Updates; *Oct.* 23, pp. 585-597.
- Fresh Multiple Access: A Unified Framework Based on Large Models and Mean-Field Approximations; *Oct.* 23, pp. 598-620.
- Timely and Covert Communications under Deep Learning-Based Eavesdropping and Jamming Effects; *Oct.* 23, pp. 621-630.
- Age of Information Games Between Power Constrained Schedulers and Adversaries; *Oct.* 23, pp. 556-569.
- On the Age of Information of Processor Sharing Queuing Systems; *Oct.* 23, pp. 643-656.
- State-aware Real-time Tracking and Remote Reconstruction of a Markov Source; *Oct.* 23, pp. 657-669.
- Sampling for Remote Estimation of an Ornstein-Uhlenbeck Process through Channel with Unknown Delay Statistics; *Oct.* 23, pp. 670-687.

Control-Aware Scheduling over Multi-hop Networks; *Oct.* 23, pp.  
688-698.