

GLOBECOM 2022 - 2022 IEEE Global Communications Conference

**Rio de Janeiro, Brazil
4-8 December 2022**

Pages 1-632



**IEEE Catalog Number: CFP22GLO-POD
ISBN: 978-1-6654-3541-3**

**Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP22GLO-POD
ISBN (Print-On-Demand):	978-1-6654-3541-3
ISBN (Online):	978-1-6654-3540-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

DADEs: 5G Dual-Adaptive Delay-Aware and Energy-Saving System with Tandem Learning.....	1
<i>Sheng Lin, Chao Qiu, Jingchao Tan, Xiaofei Wang, Yajun Yang, Ying He, Jing Jiang</i>	
Toward Green Residential Systems: Is Cooperation the Way Forward?.....	7
<i>Ashutosh Balakrishnan, Swades De, Li-Chun Wang</i>	
Green Federated Learning Via Energy-Aware Client Selection.....	13
<i>Rana Albelaihi, Liangkun Yu, Warren D. Craft, Xiang Sun, Chonggang Wang, Robert Gazda</i>	
A Real-Time Scalable Video Distribution Strategy Based on Dynamic Coalition and D2D Broadcast.....	19
<i>Chenyang Liu, Wei Wang, Rui Dai, Hao Nie, Peng Xu</i>	
Spectrum Efficiency Design for Intelligent Reflecting Surface-Aided IoT Systems	25
<i>Anh-Tu Le, Dinh-Thuan Do, Haotong Cao, Sahil Garg, Georges Kaddoum, Shahid Mumtaz</i>	
Physical Layer Security Enabled Two-Stage AP Selection for Computation Offloading	31
<i>Yu Yan, Tao Jing, Qinghe Gao, Yingzhen Wu, Xiaoxuan Wang</i>	
Signal-Independent RFF Identification for LTE Mobile Devices Via Ensemble Deep Learning	37
<i>Yanjin Qiu, Linning Peng, Junqing Zhang, Ming Liu, Hua Fu, Aiqun Hu</i>	
RIDS: Real-Time Intrusion Detection System for WPA3 Enabled Enterprise Networks	43
<i>Rahul Saini, Debajyoti Halder, Anand M. Baswade</i>	
Incentive Routing Design for Covert Communication in Multi-Hop Decentralized Wireless Networks	49
<i>Meng Xie, Jia Liu, Hiroki Takakura, Yang Xu, Zhao Li, Norio Shiratori</i>	
Exact Throughput-Covertiness Relation for Covert Communications	55
<i>Daizhong Yu, Lin Yang, Jiawei Liu, Guangrong Yue</i>	
Dynamic Deep Neural Network Adversarial Attacks for Edge-Based IoT Devices	61
<i>Mohammed Ayyat, Santosh Kumar Nukavarapu, Tamer Nadeem</i>	
Poisoning Attacks in Crowdsensing Over Multiple Areas	68
<i>Rin Fujimoto, Noriaki Kamiyama</i>	
An Adversarial Learning-Based Tor Malware Traffic Detection Model	74
<i>Xiaoyan Hu, Yishu Gao, Guang Cheng, Hua Wu, Ruidong Li</i>	
Semantic Preserving Adversarial Attack Generation with Autoencoder and Genetic Algorithm	80
<i>Xinyi Wang, Simon Yusuf Enoch, Dan Dongseong Kim</i>	
Towards Automated Fuzzing of 4G/5G Protocol Implementations Over the Air	86
<i>Matheus E. Garbelini, Zewen Shang, Sudipta Chattopadhyay, Sumei Sun, Ernest Kurniawan</i>	
Uplink Cluster-Based Radio Resource Scheduling for HetNet mMTC Scenarios	93
<i>Abdelrahman Ramadan, Nizar Zorba, Hossam S. Hassanein</i>	
Energy Efficient RRM Relaxation for Reduced Capability UEs in 5G Networks	99
<i>Muhammad Tayyab, Niko Kolehmainen, M. Majid Butt, Ahlem Khlass, Rapeepat Ratasuk</i>	

Power Level Design-Aware Throughput Analysis of Grant-Free Power-Domain NOMA in mMTC	105
<i>Takeshi Hirai, Rei Oda, Naoki Wakamiya</i>	
Revealing the Benefits of Rate-Splitting Multiple Access for Uplink IoT Traffic	111
<i>Abhishek Kumar, Frank Y. Li, Jorge Martinez-Bauset</i>	
Batch Grooming in Elastic Optical Networks with Space-Division Multiplexing	117
<i>Silvana Trindade, Nelson L. S. Da Fonseca</i>	
A Practical Way to Handle Service Migration of ML-Based Applications in Industrial Analytics	123
<i>Domenico Scotece, Claudio Fiandrino, Luca Foschini</i>	
An Architectural Approach for Heterogeneous Data Access in Serverless Platforms	129
<i>Andrea Sabbioni, Armir Bujari, Stefano Romeo, Luca Foschini, Antonio Corradi</i>	
Availability-Aware Service Provisioning with Backup Sub-Chain-Enabled Sharing	135
<i>Yuncan Zhang, Fujun He, Eiji Oki</i>	
Computing the Hit Rate of Similarity Caching	141
<i>Younes Ben Mazziane, Sara Alouf, Giovanni Neglia, Daniel Sadoc Menasche</i>	
Caching and Recommendation Decisions at Transcoding-Enabled Base Stations	147
<i>Dimitra Tsigkari, Thrasyvoulos Spyropoulos</i>	
FedRFID: Federated Learning for Radio Frequency Fingerprint Identification of WiFi Signals	154
<i>Jibo Shi, Han Zhang, Sen Wang, Bin Ge, Shiwen Mao, Yun Lin</i>	
Multi-Resource Allocation for On-Device Distributed Federated Learning Systems	160
<i>Yulan Gao, Ziqiang Ye, Han Yu, Zehui Xiong, Yue Xiao, Dusit Niyato</i>	
Federated Learning-Based Heterogeneous Load Prediction and Slicing for 5G Systems and Beyond	166
<i>Liyuan Pu, Qimei Cui, Xiangjun Li I, Borui Zhao, Wei Ni, Ming Ai, Xiaofeng Tao</i>	
Communication-Efficient Device Scheduling Via Over-The-Air Computation for Federated Learning	173
<i>Bingqing Jiang, Jun Du, Chunxiao Jiang, Yuanming Shi, Zhu Han</i>	
Energy Efficient Federated Learning Over Cooperative Relay-Assisted Wireless Networks	179
<i>Xinyue Zhang, Rui Chen, Jingyi Wang, Huaqing Zhang, Miao Pan</i>	
A Coverage-Aware VNF Placement and Resource Allocation Approach for Disaggregated vRANs	185
<i>Victor Hugo L. Lopes, Gabriel Matheus Almeida, Aldebaro Klautau, Kleber Cardoso</i>	
Efficient Allocation of Disaggregated RAN Functions and Multi-Access Edge Computing Services	191
<i>Luciano De S. Fraga, Gabriel Matheus Almeida, Sand Correa, Cristiano Both, Leizer Pinto, Kleber Cardoso</i>	
ProSLICE: An Open RAN-Based Approach to Programmable RAN Slicing	197
<i>Ahan Kak, Van-Quan Pham, Huu-Trung Thieu, Nakjung Choi</i>	
Zero-Rating, One Big Mess: Analyzing Differential Pricing Practices of European MNOs	203
<i>Gabriel K. Gegenhuber, Wilfried Mayer, Edgar Weippl</i>	
A Multi-Scale Ensemble Learning Model for Cellular Traffic Prediction	209
<i>Changzheng Gao, Tao Feng, Huandong Wang, Depeng Jin, Junlan Feng, Xing Wang, Lin Zhu, Chao Deng</i>	

A Practical Dirty Paper Coding Scheme for MISO Broadcast Channels	215
<i>M. Yusuf Sener, Ronald Böhnke, Wen Xu</i>	
Achievable Rate of Multiuser Scheduling in RIS-Based Massive MIMO Systems	221
<i>Cheonyong Kim, Minchae Jung, Walid Saad</i>	
Tight Bounds on the Optimal UL Sum-Rate of MU RIS-Aided Wireless Systems	227
<i>Ikram Singh, Peter J. Smith, Pawel A. Dmochowski</i>	
Beamforming Allocation and Backhaul Capacity Allocation for Integrated Access and Backhaul Networks	233
<i>Mingun Kim, Hewon Cho, Jemin Lee</i>	
An Optimal Transport Approach to the Computation of the LM Rate	239
<i>Wenhao Ye, Huihui Wu, Shitong Wu, Yizhu Wang, Wenyi Zhang, Hao Wu, Bo Bai</i>	
Network Traffic Prediction for Intelligent Transportation Systems: A Reinforcement Learning Approach	245
<i>Jian Song, Hua Liu, Laisen Nie, Zhaolong Ning, Mohammad S. Obaidat, Balqies Sadoun</i>	
SFL: A High-Precision Traffic Flow Predictor for Supporting Intelligent Transportation Systems	251
<i>Zepu Wang, Peng Sun, Yulin Hu, Azzedine Boukerche</i>	
IoT and Transfer Learning Based Urban River Quality Prediction	257
<i>Tharsana Balachandran, Thiago Abreu, Manel Naloufi, Sami Souihi, Françoise Lucas, Aurélie Janne</i>	
Detecting False Data Injections in Images Collected by Drones: A Deep Learning Approach	263
<i>Farid Nait-Abdesselam, Chafiq Titouna, Ashfaq Khokhar</i>	
Deep Reinforcement Learning for Task Allocation in Energy Harvesting Mobile Crowdsensing	269
<i>Sumedh Dongare, Andrea Ortiz, Anja Klein</i>	
Communication-Efficient Federated Learning in Channel Constrained Internet of Things	275
<i>Tao Hu, Xinran Zhang, Zheng Chang, Fengye Hu, Timo Hämmäläinen</i>	
FedDQ: Communication-Efficient Federated Learning with Descending Quantization	281
<i>Linping Qu, Shenghui Song, Chi-Ying Tsui</i>	
Privacy-Preserving and Efficient Decentralized Federated Learning-Based Energy Theft Detector	287
<i>Mohamed I. Ibrahim, Mohamed Mahmoud, Mostafa M. Fouda, Basem M. Elhalawany, Waleed Alasmay</i>	
Independent and Identically Distributed (IID) Data Assessment in Federated Learning	293
<i>Mohamad Arafah, Ahmad Hammoud, Hadi Otrok, Azzam Mourad, Chamseddine Talhi, Zbigniew Dziong</i>	
Anomaly Traffic Detection with Federated Learning Toward Network-Based Malware Detection in IoT	299
<i>Takayuki Nishio, Masataka Nakahara, Norihiro Okui, Ayumu Kubota, Yasuaki Kobayashi, Keizo Sugiyama, Ryoichi Shinkuma</i>	
Real-Time Context-Aware Learning System for IoT Applications	305
<i>Bhaskar Das, Jalal Almhana, Lutful Karim</i>	
Mean-Field MARL-Based Priority-Aware CSMA/CA Strategy in Large-Scale MANETs	311
<i>Hanyu Wei, Chan Wang, Rongpeng Li, Minjian Zhao</i>	

Efficient Light-Weight Breath Rate Estimation for Low-Cost IoT Applications.....	317
<i>Yassine Ben-Aboud, Mohamed Salmi, Mounir Ghogho, Abdellatif Kobbane</i>	
Delay Aware Fault-Tolerant Concurrent Data Collection Trees in Shared IIoT Applications.....	323
<i>Arvind Kumar, Rakesh Matam, Srinibas Swain, Somanath Tripathy, Mithun Mukherjee, Jaime Lloret</i>	
Age of Information for Preemptive/Non-Preemptive Transmissions in Large-Scale IoT Networks.....	329
<i>Badiaa Gabr, Hesham Elsayy, Karim G. Seddik, Wessam Mesbah</i>	
Learning to Predict and Optimize Imperfect MIMO System Performance: Framework and Application	335
<i>Jingyi Su, Fan Meng, Shengheng Liu, Yongming Huang, Zhaohua Lu</i>	
POMDP-Based Handoffs for User-Centric Cell-Free MIMO Networks.....	341
<i>Hussein A. Ammar, Raviraj Adve, Shahram Shahbazpanahi, Gary Boudreau, Kothapalli V. Srinivas</i>	
Uplink-Aided Downlink Channel Estimation for a High-Mobility Massive MIMO-OTFS System.....	347
<i>Daidong Ying, Feng Ye, Rose Qingyang Hu, Yi Qian</i>	
Statistical Delay and Error-Rate Bounded QoS Provisioning Over Massive-MIMO Based 6G Mobile Wireless Networks	353
<i>Xi Zhang, Qixuan Zhu</i>	
Optimal MRUs Allocation Mechanism Based on User Priority for Wi-Fi 7 Network.....	359
<i>Jialiang Pan, Rong He, Yang Lin, Xuming Fang</i>	
Statistical Maximum Flow Guarantee for Evolving Wireless Backscatter Networks	365
<i>Yongyi Yang, Guolin Chen, Kai Xie, Xiaoxia Huang</i>	
On the Throughput-Latency Routing Optimality of a Delay-Tolerant Network	371
<i>Ricardo Lent</i>	
Experimental Evaluation of IEEE 802.11ax - Low Latency and High Reliability with Wi-Fi 6?.....	377
<i>Marie-Theres Suer, Prince Jose, Hugues Tchouankem</i>	
Minimizing the Age of Information for Monitoring Over a WiFi Network	383
<i>Suyang Wang, Yu Cheng, Lin X. Cai, Xianghui Cao</i>	
Access Delay Minimization for Scalable Videos in Cache-Enabled Multi-UAV Networks.....	389
<i>Bin Zeng, Cheng Zhan, Yang Yang, Jingrui Liao</i>	
Both Efficient and Accurate: A Large-Scale One-Way Delay Measurement Scheme	395
<i>Yaoshong Liu, Zhiliang Wang, Jiahai Yang, Long Pan, Lin He, Jinlei Lin, Guanglei Song, Chenglong Li</i>	
Deep Learning-Based Beam Pair Angle Prediction for Beyond 5G Millimeter-Wave Vehicular Communication	401
<i>Rima Benelmir, Salim Bitam, Abdelhamid Mellouk</i>	
On Using Deep Reinforcement Learning to Reduce Uplink Latency for uRLLC Services	407
<i>Karim Boutiba, Miloud Bagaa, Adlen Ksentini</i>	
Scalable No-Wait Scheduling with Flow-Aware Model Conversion in Time-Sensitive Networking.....	413
<i>Yanzhou Zhang, Qimin Xu, Shouliang Wang, Yingxiu Chen, Lei Xu, Cailian Chen</i>	

Design Tradeoffs of Non-Imaging Angle Diversity Receivers for 6G Optical Wireless Access Networks	419
<i>Elham Sarbazi, Hossein Kazemi, Mohammad Dehghani Soltani, Majid Safari, Harald Haas</i>	
Intelligent Subflow Steering in MPTCP-Based Hybrid Wi-Fi and LiFi Networks Using Model-Augmented DRL	425
<i>Ardimas Andi Purwita, Anil Yesilkaya, Harald Haas</i>	
Symbol Error Rate Analysis of Satellite Communication Systems with SAG-FSO/SH-FSO/RF Transmission	431
<i>Ramy Samy, Hong-Chuan Yang, Tamer Rakia, Mohamed-Slim Alouini</i>	
Characterization of Secret Key Generation in 5G+ Indoor Mobile LiFi Networks.....	437
<i>Elmahedi Mahalal, Muhammad Ismail, Zi-Yang Wu, Mostafa M. Fouda</i>	
Can Commercial LED Bulbs Pose a Threat to PLC System Security?	443
<i>Yara Yaacoub, F. Nouvel, S. Haese, J.-Y. Baudais</i>	
Age-Of-Updates Optimization for UAV-Assisted Networks	450
<i>Mouhamed Naby Ndiaye, El Houcine Bergou, Mounir Ghogho, Hajar El Hammouti</i>	
Intelligent Gateway Selection and User Scheduling in Non-Stationary Air-Ground Networks.....	456
<i>Youkun Peng, Gang Feng, Fengsheng Wei, Shuang Qin</i>	
Throughput and Delay Tradeoff Over 3D UAV Communication Network	462
<i>Jue Gong, Cheng Zhan, Renjie Huang, Changyuan Xu</i>	
Towards a UAV-Centric Content Caching Architecture for Communication-Challenged Environments.....	468
<i>Amit Kumar Bhuyan, Hrishikesh Dutta, Subir Biswas</i>	
Dual Identities Enabled Low-Latency Visual Networking for UAV Emergency Communication.....	474
<i>Yanpeng Cui, Qixun Zhang, Zhiyong Feng, Zhiqing Wei, Ce Shi, Jinpo Fan, Ping Zhang</i>	
Few-Shot SAR Target Classification Combining Both Spatial and Frequency Information.....	480
<i>Haorun Li, Tianyu Wang, Shaowei Wang</i>	
PATR: Periodicity-Aware Trajectory Recovery for Express System Via Seq2Seq Model.....	486
<i>Xinrui Zhang, Xingyuan Liang, Hai Wang, Shuai Wang, Tian He</i>	
Embedding Alignment for Unsupervised Federated Learning Via Smart Data Exchange.....	492
<i>Satyavrat Wagle, Seyyedali Hosseinalipour, Naji Khosravan, Mung Chiang, Christopher G. Brinton</i>	
Taming Hybrid-Cloud Fast and Scalable Graph Analytics at Twitter.....	498
<i>Chunxu Tang, Yao Li, Zhenxiao Luo, Mainak Ghosh, Huijun Wu, Lu Zhang, Anneliese Lu, Ruchin Kabra, Nikhil Kantibhai Navadiya, Prachi Mishra, Prateek Mukhedkar, Vrushali Channapattan</i>	
Handling Big Tabular Data of ICT Supply Chains: A Multi-Task, Machine-Interpretable Approach.....	504
<i>Bin Xiao, Murat Simsek, Burak Kantarci, Ala Abu Alkheir</i>	
Joint Data Freshness Optimization and Privacy Preservation in Mobile Crowdsensing	510
<i>Yaoqi Yang, Bangning Zhang, Daoxing Guo, Renhui Xu, Kapal Dev, Weizheng Wang</i>	

A Provably Secure ECC-Based Multi-Factor 5G-AKA Authentication Protocol	516
<i>Awaneesh Kumar Yadav, Manoj Misra, Pradumn Kumar Pandey, Kuljeet Kaur, Sahil Garg, Xi Chen</i>	
Using Cloud Computing Based Crowdsourcing for Security and Privacy Settings of Android Users.....	522
<i>Yuzhu Sun, Xuanyu Liu, Tianchi Wu, Xiao Fu, Bin Luo, Xiaojiang Du, Mohsen Guizani</i>	
Locally Random Sampling for Practical Privacy Protection in Federated Learning	528
<i>WeiQi Wang, Shushu Liu, An Liu, Christy Jie Liang, Shui Yu</i>	
Advanced Persistent Threat Detection in Smart Grid Clouds Using Spatiotemporal Context-Aware Graph Embedding.....	534
<i>Weiyong Yang, Peng Gao, Hao Huang, Xingshen Wei, Haotian Zhang, Zhihao Qu</i>	
Contactless Blood Pressure Monitoring with mmWave Radar	541
<i>You Ran, Dongheng Zhang, Jinbo Chen, Yang Hu, Yan Chen</i>	
MM-HAT: Transformer for Millimeter-Wave Sensing Based Human Activity Recognition	547
<i>Jie Yan, Xianlin Zeng, Anfu Zhou, Huadong Ma</i>	
Intelligent Surface-Enhanced Raman Scattering Sensor System for Virus Identification.....	554
<i>Zaid Farooq Pitafi, Wenzhan Song, Zion Tse, Yanjun Yang, Yiping Zhao, Jackelyn Murray, Ralph A. Tripp</i>	
Annotation Efficiency in Multimodal Emotion Recognition with Deep Learning	560
<i>Lili Zhu, Petros Spachos</i>	
Multi-Level Contrast Network for Wearables-Based Joint Activity Segmentation and Recognition	566
<i>Songpengcheng Xia, Lei Chu, Ling Pei, Wenxian Yu, Robert C. Qiu</i>	
Deep Learning Assisted Adaptive mmWave Beam Tracking: A Sum-Probability Oriented Methodology	573
<i>Ke Ma, Haoming Zou, Chen Sun, Zhaocheng Wang</i>	
Frequency-Domain Digital Predistortion for Massive MU-MIMO-OFDM Downlink	579
<i>Yibo Wu, Ulf Gustavsson, Mikko Valkama, Alexandre Graell I Amat, Henk Wymeersch</i>	
Blind and Channel-Agnostic Equalization Using Adversarial Networks	585
<i>Vincent Lauinger, Manuel Hoffmann, Jonas Ney, Norbert Wehn, Laurent Schmalen</i>	
DRL-Based Channel Access in NR Unlicensed Spectrum for Downlink URLLC	591
<i>Yan Liu, Hui Zhou, Yansha Deng, Arumugam N Allannathan</i>	
Location- And Orientation-Aware Millimeter Wave Beam Selection for Multi-Panel Antenna Devices	597
<i>Sajad Rezaie, João Morais, Elisabeth De Carvalho, Ahmed Alkhateeb, Carles Navarro Manchón</i>	
Communication-Efficient Distributed Learning in V2X Networks: Parameter Selection and Quantization	603
<i>Luca Barbieri, Stefano Savazzi, Monica Nicoli</i>	
Robust Distributed Bayesian Learning with Stragglers Via Consensus Monte Carlo	609
<i>Hari Hara Suthan Chittoor, Osvaldo Simeone</i>	
Transfer Learning with Input Reconstruction Loss	615
<i>Wei Cui, Wei Yu</i>	

IL-GAN: Rare Sample Generation Via Incremental Learning in GANs.....	621
<i>Jón R. Baldvinsson, Milad Ganjalizadeh, Abdulrahman Alabbasi, Mårten Björkman, Amir H. Payberah</i>	
Hierarchical Federated Learning with Adaptive Clustering on Non-IID Data	627
<i>Yuqing Tian, Zhaoyang Zhang, Zhaohui Yang, Richeng Jin</i>	
Realization of Reconfigurable Intelligent Surface-Based Index Modulation Transmission.....	633
<i>Jia Liu, Wankai Tang, Xiangyu Chen, Jun Chen Ke, Shi Jin, Fu-Chun Zheng, Qiang Cheng, Tie Jun Cui</i>	
Codebook Design for Large Reconfigurable Refractive Surface Enabled Holographic MIMO Systems.....	639
<i>Yutong Zhang, Boya Di, Hongliang Zhang, Lingyang Song</i>	
Multi-User Holographic MIMO Systems: Reconfigurable Refractive Surface Or Phased Array?	645
<i>Shuhao Zeng, Hongliang Zhang, Boya Di, Lingyang Song</i>	
OAM-Based Holographic MIMO Using Large Intelligent Surfaces.....	651
<i>Giulia Torcolacci, Nicolò Decarli, Davide Dardari</i>	
Spatial Multiplexing Optimization for RIS-Assisted Wireless Communication Using Practical Models.....	656
<i>Mengnan Jian, Ruiqi Liu, Yajun Zhao</i>	
Age-Oriented Access Control in GEO/LEO Heterogeneous Network for Marine IoRT	662
<i>Yi Cai, Shaohua Wu, Jiping Luo, Jian Jiao, Ning Zhang, Qinyu Zhang</i>	
SFC Enabled Data Delivery for Ultra-Dense LEO Satellite-Terrestrial Integrated Network.....	668
<i>Xiaohan Qin, Ting Ma, Zhixuan Tang, Xin Zhang, Xiaoyu Liu, Haibo Zhou</i>	
Adaptive Beam Pattern Selection and Resource Allocation for NOMA-Based LEO Satellite Systems.....	674
<i>Anyue Wang, Lei Lei, Xin Hu, Eva Lagunas, Ana I. Pérez-Neira, Symeon Chatzinotas</i>	
A Novel Preamble Design for 5G Enabled LEO Non-Terrestrial Networks.....	680
<i>Hua-Min Chen, Peng Wang, Sijia Li, Shaofu Lin, Zhuwei Wang, Chao Fang</i>	
Enabling Ubiquitous and Efficient Data Delivery by LEO Satellites and Ground Station Networks	687
<i>Weisen Liu, Qian Wu, Zeqi Lai, Hewu Li, Yuanjie Li, Jun Liu</i>	
Pilot-Less Massive MIMO TDD System with Blind Channel Estimation Using Non-Coherent DMPSK	693
<i>Manuel Jose Lopez Morales, Kun Chen-Hu, Ana Garcia Armada</i>	
Distributed Massive MIMO Cooperation with Low-Dimensional CSI Exchange	699
<i>Zhenyao He, Wei Xu, Hong Shen, Yan Sun, Xiaohu You, Jiewei Fu</i>	
Effective Channel DL Pilot-Based Estimation in User-Centric Cell-Free Massive MIMO Networks.....	705
<i>Daynara D. Souza, Marx M. M. Freitas, Daniel B. Da Costa, Gilvan S. Borges, André Mendes Cavalcante, Luca Valcarenghi, João C. Weyl Albuquerque Costa</i>	
Low-Complexity Channel Estimation Scheme for Cell-Free Massive MIMO with Hardware Impairment	711
<i>Mingfeng Xie, Xiangbin Yu, Jinjiang Xu, Xiaoyu Dang</i>	

Cascaded Channel Estimation for Distributed IRS Aided mmWave Massive MIMO Systems.....	717
<i>L. Yashvanth, Chandra R. Murthy</i>	
A Backbone-Listener Relative Localization Scheme for Distributed Multi-Agent Systems.....	724
<i>Xiaoxiang Li, Yan Liu, Yunlong Wang, Yuan Shen</i>	
RangeSRN: Range Super-Resolution Network Using mmWave FMCW Radar.....	729
<i>Hsin-Yuan Chang, Yi-Yan Chen, Wei-Ho Chung</i>	
A Two-Stage Global Estimation Scheme for Multiband Delay Estimation in Wireless Localization	735
<i>Yubo Wan, An Liu, Qiyu Hu, Mianyi Zhang, Yunlong Cai</i>	
Joint Estimation of Vehicle's Position and Velocity with Distributed RSUs for OFDM Radar System	741
<i>Seong-Hwan Hyun, Jihye Kim, Keunwoo Kim, Wanjei Cho, Seong-Cheol Kim</i>	
A Novel Navigation-Communication Integrated Waveform for LEO Network.....	747
<i>Mingyi Wang, Gongliang Liu, Ruofei Ma., Wanlong Zhao, Wenjing Kang</i>	
6G Intelligent Distributed Uplink Beamforming for Transport System in Highly Dynamic Environments.....	753
<i>Xingrui Yi, Yutong Liu, Linghe Kong, Guihai Chen, Xue Liu, Shahid Mumtaz, Joel J. P. C. Rodrigues</i>	
User-Wise Asymmetric Beamforming for Millimeter-Wave MIMO Systems.....	759
<i>Ke Xu, Fu-Chun Zheng, Hongguang Xu, Xu Zhu, Xiaogang Xiong</i>	
RF Chain-Wise Clustering for Centralized mm-Wave Cell-Free Massive MIMO with Hybrid Beamforming.....	764
<i>Shunsuke Kamiwatari, Issei Kanno, Takeo Ohseki, Kosuke Yamazaki, Yoji Kishi</i>	
Joint Optimal Beamforming and Power Control in Cell-Free Massive MIMO.....	770
<i>Lorenzo Miretti, Renato L. G. Cavalcante, Slawomir Stanczak</i>	
Beyond Codebook-Based Analog Beamforming at mmWave: Compressed Sensing and Machine Learning Methods.....	776
<i>Hamed Pezeshki, Fabio Valerio Massoli, Arash Behboodi, Taesang Yoo, Arumugam Kannan, Mahmoud Taherzadeh Boroujeni, Qiaoyu Li, Tao Luo, Joseph B. Soriaga</i>	
Unbiased Over-The-Air Computation Via Retransmissions	782
<i>Henrik Hellstrom, Viktoria Fodor, Carlo Fischione</i>	
Timely Status Update for Wireless Data Aggregation Via Over-The-Air Computation.....	788
<i>Luteng Qiao, Yong Zhou</i>	
Joint Power Control for Over-The-Air Computation in Multicarrier Wireless System.....	794
<i>Xin Xie, Cunqing Hua, Jianan Hong</i>	
Joint Resource Allocation for Integrated Localization and Computing in Edge-Intelligent Networks	800
<i>Qiao Qi, Xiaoming Chen, Chau Yuen</i>	
UAV-Assisted Hierarchical Aggregation for Over-The-Air Federated Learning	807
<i>Xiangyu Zhong, Xiaojun Yuan, Huiyuan Yang, Chenxi Zhong</i>	
GRAND-Assisted Optimal Modulation	813
<i>Basak Ozaydin, Muriel Médard, Ken R. Duffy</i>	

Vapor Cloud Delayed-DPPM Modulation Technique for Nonlinear Optoacoustic Communication.....	819
<i>Muntasir Mahmud, Mohamed Younis, Md Shafiqul Islam, Fow-Sen Choa, Gary Carter</i>	
Novel Low-Complexity Neural Network Aided Detection for FTN Signalling in ISI Channel	825
<i>Ammar Abdelsamie, Ian Marsland, Ahmed Ibrahim, Halim Yanikomeroglu</i>	
ML Detection Without CSI for Constant-Weight Codes in THz Communications with Strong Phase Noise.....	831
<i>Yifei Wu, Johannes David Koch, Martin Vossiek, Robert Schober, Wolfgang Gerstacker</i>	
Novelty Detection for Risk-Based User Authentication on Mobile Devices	837
<i>Maria Papaioannou, Georgios Zachos, Georgios Mantas, Jonathan Rodriguez</i>	
Energy-Efficient Resource Allocation for MEC and Blockchain-Enabled IoT Via CRL Approach.....	843
<i>Meng Li, Pan Pei, F. Richard Yu, Pengbo Si, Ruizhe Yang, Zhuwei Wang</i>	
Bi-Criteria Optimisation for Energy Harvesting Relaying: Formulation and Algorithm Implementation.....	849
<i>Dokhyl Alqahtani, Yunfei Chen</i>	
Two-Timescale Online Resource Management in Smart-Grid Supplied Heterogeneous Cellular Networks	855
<i>Lilan Liu, Zhizhong Zhang, Haijun Zhang, Yu Zhang</i>	
Joint Resource Allocation for Software-Defined Serverless Service-Centric Networking	861
<i>Xiaolu Li, Renchao Xie, Tao Huang, Yunjie Liu</i>	
Energy-Efficient User Association and Resource Allocation for Decentralized Mutual Learning	867
<i>Xiao Lu, Jiantao Yuan, Chao Chen, Xianfu Chen, Celimuge Wu, Rui Yin</i>	
FERST: A Full ECG Reception System for User Authentication Using Two-Stage Deep Learning.....	873
<i>Amr Salah Kassab, Stella Banou, Debashri Roy, Kaushik Chowdhury</i>	
Generalizing Flow Classification for Distributed Denial-Of-Service Over Different Networks.....	879
<i>Leonardo H De Melo, Gustavo De C Bertoli, Lourenco A Pereira, Osamu Saotome, Marcelo F Domingues, Aldri Luiz Dos Santos</i>	
Zen-Tor: A Zero Knowledge Known-Unknown Traffic Classification Method.....	885
<i>Yizhe Gu, Yingxu Lai, Yipeng Wang</i>	
TrafficGCN: Mobile Application Encrypted Traffic Classification Based on GCN.....	891
<i>Hongbo Xu, Shuhao Li, Zhenyu Cheng, Rui Qin, Jiang Xie, Peishuai Sun</i>	
A Graph Learning Approach with Audit Records for Advanced Attack Investigation	897
<i>Jian Liu, Junjie Yan, Zhengwei Jiang, Xuren Wang, Jun Jiang</i>	
Discovering Truth in Mobile Crowdsensing with Differential Location Privacy.....	903
<i>Tongqing Zhou, Zhiping Cai, Jingshu Su</i>	
Differentially Private ADMM-Based Distributed Discrete Optimal Transport for Resource Allocation.....	909
<i>Jason Hughes, Juntao Chen</i>	
A Federated Learning Approach for Improving Security in Network Slicing.....	915
<i>Shalitha Wijethilaka, Madhusanka Liyanage</i>	

Effects of Quantization on Federated Learning with Local Differential Privacy	921
<i>Muah Kim, Onur Günlü, Rafael F. Schaefer</i>	
A Two-Layer Game-Based Incentive Mechanism for Decentralized Crowdsourcing	927
<i>Rong Han, Xueqin Liang, Zheng Yan</i>	
Intelligent Reflective Surface Vs. Mobile Relay-Supported NLoS Avoidance in Indoor mmWave Networks	934
<i>Maria Bustamante Madrid, Jeroen Famaey, Filip Lemic</i>	
Optimizing Information Freshness Leveraging Multi-RISs in NOMA-Based IoT Networks	940
<i>Ali Muhammad, Mohamed Elhattab, Mohamed Amine Arfaoui, Chadi Assi</i>	
On Stochastic Modeling of Robustness Parameter for Resilience Communications in Vehicle Platoons	946
<i>Nitin Singh Rajput, Santosh Kumar Satapathy, Sheetal Sisodia</i>	
A Multi - Task Learning Model for Super Resolution of Wireless Channel Characteristics	952
<i>Xiping Wang, Zhao Zhang, Danping He, Ke Guan, Dongliang Liu, Jianwu Dou, Shahid Mumtaz, Saba Al-Rubaye</i>	
Federated Deep Reinforcement Learning for Resource Allocation in O-RAN Slicing	958
<i>Han Zhang, Hao Zhou, Melike Erol-Kantarci</i>	
Aerial Assistant: Safeguarding Ground-To-Satellite Communication Networks	964
<i>Hao Wang, Qubeijian Wang, Wen Sun, Nan Zhao, Hong-Ning Dai, Lexi Xu</i>	
Competitive Energy Allocation for Aerial Computation Offloading: A Colonel Blotto Game	970
<i>Panagiotis Charatsaris, Maria Diamanti, Eirini Eleni Tsiropoulou, Symeon Papavassiliou</i>	
Optimal Offloading Strategies for Edge-Computing Via Mean-Field Games and Control	976
<i>Kai Cui, Mustafa Burak Yilmaz, Anam Tahir, Anja Klein, Heinz Koepl</i>	
Graph Reinforcement Learning-Based CNN Inference Offloading in Dynamic Edge Computing	982
<i>Nan Li, Alexandros Iosifidis, Qi Zhang</i>	
Distributed Bio-Inspired Configuration of Virtualized Mission-Critical Networks	988
<i>Doganalp Ergenc, David Sorejevic, Mathias Fischer</i>	
Joint Scheduling of Communication-Computation-Caching in F-RAN	994
<i>Zishuo You, Qiang Li, Ashish Pandharipande, Xiaohu Ge</i>	
Proactive Resource Management for Predictive 5G Uplink Slicing	1000
<i>Dennis Overbeck, Niklas A. Wagner, Fabian Kurtz, Christian Wietfeld</i>	
Recursive Router Metrics Prediction Using ML-Based Node Modeling for Network Digital Replica	1006
<i>Kyota Hattori, Tomohiro Korikawa, Chikako Takasaki, Hidenari Oowada, Masafumi Shimizu</i>	
Policy Learning Based Cognitive Radio for Unlicensed Cellular Communication	1013
<i>Peihao Yang, Jiale Lei, Linghe Kong, Chenren Xu, Peng Zeng, Evgeny Khorov</i>	
Non-Episodic and Heterogeneous Environment in Distributed Multi-Agent Reinforcement Learning	1019
<i>Fenghe Hu, Yansha Deng, A. Hamid Aghvami</i>	
Digital Twin-Assisted Adaptive DNN Inference in Industrial Internet of Things	1025
<i>Shisheng Hu, Mushu Li, Jie Gao, Conghao Zhou, Xuemin Sherman Shen</i>	

Privacy-Preserving Collaborative Learning with Scalable Image Transformation and Autoencoder	1031
<i>Yuting Ma, Yuanzhi Yao, Xiaowei Liu, Nenghai Yu</i>	
A Trust and Explainable Federated Deep Learning Framework in Zero Touch B5G Networks.....	1037
<i>Sabra Ben Saad, Bouziane Brik, Adlen Ksentini</i>	
End-To-End Deep Learning Proactive Content Caching Framework	1043
<i>Eslam Mohamed Bakr, Hamza Ben-Ammar, Hesham M. Eraqi, Sherif G. Aly, Tamer Elbatt, Yacine Ghamri-Doudane</i>	
Grey Wolf Optimizer for Reducing Communication Cost of Federated Learning.....	1049
<i>Ammar Kamal Abasi, Moayad Aloqaily, Mohsen Guizani</i>	
Federated Edge Learning Via Reconfigurable Intelligent Surface with One-Bit Quantization.....	1055
<i>Heju Li, Rui Wang, Jun Wu, Wei Zhang</i>	
Massive Random Access with Tensor-Based Modulation in the Presence of Timing Offsets.....	1061
<i>Alexis Decurninge, Paul Ferrand, Maxime Guillaud</i>	
Spectral Efficiency with One-Bit Transmitters Under Out-Of-Band Power Constraints	1067
<i>Xiangbo Meng, Nicholas Estes, J. Nicholas Laneman, Jonathan Chisum, Ralf Bendlin, Bertrand M. Hochwald</i>	
Joint Reflection and Power Splitting Optimization for RIS-Assisted OAM-SWIPT	1073
<i>Runyu Lyu, Wenchi Cheng</i>	
Federated Multi-Armed Bandits with Vector Rewards for Aspect-Based Recommendations.....	1079
<i>Zengyan Liu, Linqi Song, Christina Fragouli</i>	
Thermal Conduction as a Wireless Communication Channel	1085
<i>Ruth G. Gebremedhin, Thomas L. Marzetta</i>	
Reinforcement Learning-Based Dynamic Resource Allocation for Grant-Free Access.....	1091
<i>Mariam Elsayem, Hatem Abou-Zeid, Ali Afana, Sidney Givigi</i>	
Dispatching and Control Information Freshness-Aware Federated Learning for Simplified Power IoT	1097
<i>Zehan Jia, Ziqi Yu, Haijun Liao, Zhao Wang, Zhenyu Zhou, Xiaoyan Wang, Guoqing He, Shahid Mumtaz, Mohsen Guizani</i>	
A Channel-Based Authentication Using Machine Learning for Body Sensor Networks.....	1103
<i>Syedmohammad Kashani, Farid Nait-Abdesselam, Ashfaq Khokhar</i>	
Model-Based Federated Reinforcement Distillation	1109
<i>Sefutsu Ryu, Shinya Takamaeda-Yamazaki</i>	
Deep Reinforcement Learning for Autonomous Vehicles Collaboration at Unsignalized Intersections.....	1115
<i>Jian Zheng, Kun Zhu, Ran Wang</i>	
On the Feasibility of Federated Learning for Neurodevelopmental Disorders: ASD Detection Use-Case	1121
<i>Hala Shamseddine, Safa Otoum, Azzam Mourad</i>	
On the Design of Communication-Efficient Federated Learning for Health Monitoring.....	1128
<i>Dong Chu, Wael Jaafar, Halim Yanikomeroglu</i>	

Federated Deep Reinforcement Learning for Task Scheduling in Heterogeneous Autonomous Robotic System.....	1134
<i>Tai Manh Ho, Kim-Khoa Nguyen, Mohamed Cheriet</i>	
Resource and Heterogeneity-Aware Clients Eligibility Protocol in Federated Learning	1140
<i>Muhammad Asad, Safa Otoum, Saima Shaukat</i>	
FTLIoT: A Federated Transfer Learning Framework for Securing IoT	1146
<i>Yazan Otoum, Sai Krishna Yadlapalli, Amiya Nayak</i>	
Magdroid: An IoT-Enabled Environment-Aware Electrical Safety Assistant.....	1152
<i>Anshita Gupta, Sudip Misra, Pallav Kumar Deb</i>	
A Transformer-Based Model for Effective and Exportable IoMT-Based Stress Detection	1158
<i>Moudy Sharaf Alshareef, Badraddin Alturki, Mona Jaber</i>	
Real-Time Jaywalking Detection and Notification System Using Deep Learning and Multi-Object Tracking	1164
<i>Sifatul Mostafi, Weimin Zhao, Sittichai Sukreep, Khalid Elgazzar, Akramul Azim</i>	
Efficient Neural Data Compression for Machine Type Communications Via Knowledge Distillation.....	1169
<i>Mostafa Hussien, Yi Tian Xu, Di Wu, Xue Liu, Gregory Dudek</i>	
RAKI:A Robust ECC Based Three-Party Authentication and Key Agreement Scheme for Medical IoT	1175
<i>Yousheng Zhou, Lunhao Li, Mohammad S. Obaidat, Yuanni Liu, P. Vijayakumar, Kuei-Fang Hsiao</i>	
Dynamic Power and Rate Allocation for NOMA Based Vehicle-To-Infrastructure Communications	1181
<i>Chongtao Guo, Bin Liao</i>	
LoS-Aware Handover Uplink NOMA Transmissions for Multi-Layer LEO Satellite Constellation.....	1187
<i>Qifan Hu, Jian Jiao, Shaohua Wu, Rongxing Lu, Qinyu Zhang</i>	
Joint Communication, Sensing, and Multi-Tier Computing: A NOMA-Aided Framework	1193
<i>Zhaolin Wang, Xidong Mu, Yuanwei Liu, Xiaodong Xu, Ping Zhang</i>	
A Time- And Energy-Efficient Massive MIMO-NOMA MEC Offloading Technique: A Distributed ADMM Approach	1199
<i>Mohammad H. Alharbi, Minhee Jun, Hang Liu</i>	
Spatial Performance Analysis of Autonomous Sidelink Cellular-V2X with NOMA.....	1205
<i>Takeshi Hirai, Tatsuaki Kimura, Naoki Wakamiya</i>	
IRS-Aided Communications Without Channel State Information Relying on Deep Reinforcement Learning	1211
<i>Hiroaki Hashida, Yuichi Kawamoto, Nei Kato, Masashi Iwabuchi, Tomoki Murakami</i>	
Exemplar-Based Radio Map Reconstruction of Missing Areas Using Propagation Priority.....	1217
<i>Songyang Zhang, Tianhang Yu, Jonathan Tivald, Brian Choi, Feng Ouyang, Zhi Ding</i>	
Intelligent Beam Training with Deep Convolutional Neural Network in mmWave Communications	1223
<i>Zicun Wang, Wenxing Shan, Lin Zhang, Song Ma, Ming Xiao, Ning Wei, Shaoqian Li</i>	

Deep Reinforcement Learning for Joint Functional Split and Network Function Placement in vRAN	1229
<i>Gabriel Matheus Almeida, Victor H. Lopes, Aldebaro Klautau, Kleber V. Cardoso</i>	
Adaptive Messaging Based on the Age of Information in VANETs.....	1235
<i>Jordi Marias I Parella, Ohuwaseun T. Ajayi, Yu Cheng</i>	
Reinforcement Learning for Joint V2I Network Selection and Autonomous Driving Policies.....	1241
<i>Zijiang Yan, Hina Tabassum</i>	
FLaaS6G: Federated Learning as a Service in 6G Using Distributed Data Management Architecture	1247
<i>Wenxuan Ye, Xueli Ant, Xueqiang Yan, Mohammad Hamad, Sebastian Steinhorst</i>	
RAN-CN Converged Control-Plane for 6G Cellular Networks	1253
<i>Jinho Choi, Neha Sharma, Shiva Souhith Gantha, Vikalp Mandawaria, Jiyoung Cha, Dongmyoung Kim, Jungsoo Jung, Juho Lee, Sunghyun Choi</i>	
DDoS Attacks Detection and Mitigation in 5G and Beyond Networks: A Deep Learning-Based Approach	1259
<i>Badre Bousalem, Vinicius F. Silva, Rami Langar, Sylvain Cherrier</i>	
Improving Scalability of 6G Network Automation with Distributed Deep Q-Networks	1265
<i>Sayantini Majumdar, Leonardo Goratti, Riccardo Trivisonno, Georg Carle</i>	
Blockchain-Based 6G Inter-Provider Agreements: Auction Vs. Marketplace	1271
<i>Farhana Javed, Josep Mangués-Bafalluy</i>	
Optimized 3D Placement of LiFi Access Points Towards Maximizing Wireless Network Performance.....	1278
<i>Hansini Vijayaraghavan, Jörg Von Mankowski, Stephan Pellegrino, Carmen Mas-Machuca</i>	
On Achievable Rates of Evenly-Spaced Discrete Uniform Distributions in the IM/DD Broadcast Channel.....	1284
<i>Zhenyu Zhang, Anas Chaaban</i>	
SIC-Based Precoding Scheme with Sub-Connected Architecture for MIMO VLC Systems.....	1290
<i>Congcong Wang, Yang Yang, Zhaohui Yang, Chunyan Feng, Zhongzheng Tang</i>	
Performance Analysis of Multi-Input Single-Output Links in Dense VLC Networks	1296
<i>Pooya Nabavi, Murat Yuksel, Christopher Kyle Renshaw</i>	
A Joint Transmit and Receive Design for Dimmable High Speed MC MU VLC Systems	1302
<i>Yujie Yang, Yang Yang, Hailun Xia, Caili Guo, Mahdi Chehimi, Walid Saad</i>	
Hierarchical-DQN Position-Aided Beamforming for Uplink mmWave Cellular-Connected UAVs.....	1308
<i>Praneeth Susarla, Yansha Deng, Markku Juntti, Olli Silven</i>	
UAV-Aided Multi-Community Federated Learning	1314
<i>Mohamad Mestoukiridi, Omid Esrafilian, David Gesbert, Qianrui Li</i>	
Autonomous Learning Based Proactive Deployment for UAV Assisted Wireless Networks.....	1320
<i>Yatong Wang, Mu Yan, Gang Feng, Shuang Qin</i>	
D2D-Based Cellular-Connected UAV Swarm Control Optimization Via Graph-Aware DRL.....	1326
<i>Yang Su, Hui Zhou, Yansha Deng</i>	

Dynamic Spectrum Sharing in Cellular Based Urban Air Mobility Via Deep Reinforcement Learning	1332
<i>Ruixuan Han, Hongxiang Li, Eric J. Knoblock, Michael R. Gasper, Rafael D. Apaza</i>	
Representation Learning of Knowledge Graph for Wireless Communication Networks.....	1338
<i>Shiwen He, Yeyu Ou, Liangpeng Wang, Hang Zhan, Peng Ren, Yongming Huang</i>	
Big Data-Based Meta-Learner Generation for Fast Adaptation of Few-Shot Learning in Wireless Networks	1344
<i>Kexin Xiong, Yao Wei, Wei Hong, Zhongyuan Zhao</i>	
How Soon Will Channel Charting Be Inapplicable in User Moving Scenarios?: Some Answers	1350
<i>Zhifan Wang, Yamei Xu, Ming Zhao, Sihai Zhang, Gaoning He</i>	
Private Protocol Traffic Identification Based on Sequence Statistical Fingerprint	1356
<i>Junchen Li, Guang Cheng, Zekun Jing, Haiyang Wei</i>	
Federated Secure Data Sharing by Edge-Cloud Computing Model	1362
<i>Arijit Karati, Sajal K. Das</i>	
Cost Efficient Service Mesh Controller Placement for Edge Native Computing.....	1368
<i>Yuepeng Li, Deze Zeng, Lvhao Chen, Lin Gu, Weiyin Ma, Feng Gao</i>	
Fast Tip Selection for Burst Message Arrivals on a DAG-Based Blockchain Processing Node at Edge.....	1373
<i>Xun Xiao, Fengyang Guo, Artur Hecker, Schahram Dustdar</i>	
A Dynamic Access Control Model Based on Attributes and Intro VAE.....	1379
<i>Xiaoyan Hu, Yuelin Hu, Guang Cheng, Hua Wu, Yifei Qin, Jian Gong</i>	
REDIT: Resilient Distributed Text-To-Speech at Edge Networks.....	1385
<i>Teng Li, Hulya Seferoglu, Erdem Koyuncu</i>	
Human Health Activity Intelligence Based on mmWave Sensing and Attention Learning	1391
<i>Yichen Gao, Noah Ziems, Shaoen Wu, Honggang Wang, Mahmoud Daneshmand</i>	
A Secure Data Dissemination Scheme for IoT-Based e-Health Systems Using AI and Blockchain.....	1397
<i>Prabhat Kumar, Randhir Kumar, Sahil Garg, Kuljeet Kaur, Yin Zhang, Mohsen Guizani</i>	
Systematic Threat Analysis of Modern Unified Healthcare Communication Systems	1404
<i>AKM Iqtidar Newaz, Ahmet Aris, Amit Kumar Sikder, A. Selcuk Uluagac</i>	
Driver Vigilance Detection from EEG Signals Using Transformer Networks.....	1411
<i>Dingcheng Gao, Bing Du, Xiaoming Tao, Jianhua Lu</i>	
FDRL Approach for Association and Resource Allocation in Multi-UAV Air-To-Ground IoMT Network.....	1417
<i>Abegaz Mohammed, Hayla Nahom Abishu, Abdullatif Albaseer, Aiman Erbad, Mohammed Abdallah, Mohsen Guizani</i>	
Real-Time Massive MIMO Channel Prediction: A Combination of Deep Learning and NeuralProphet.....	1423
<i>M. Karam Shehzad, Luca Rose, M. Furqan Azam, Mohamad Assaad</i>	
Machine Learning-Based mmWave Path Loss Prediction for Urban/Suburban Macro Sites	1429
<i>Guillem Reus-Muns, Jinfeng Du, Dmitry Chizhik, Reinaldo Valenzuela, Kaushik R. Chowdhury</i>	

Learning Variable-Rate Codes for CSI Feedback	1435
<i>Heasung Kim, Hyeji Kim, Gustavo De Veciana</i>	
Information Bottleneck Based Joint Feedback and Channel Learning in FDD Massive MIMO Systems.....	1442
<i>Jiaqi Cao, Lixiang Lian</i>	
Securing Federated Learning Against Overwhelming Collusive Attackers	1448
<i>Priyesh Ranjan, Ashish Gupta, Federico Coro, Sajal K. Das</i>	
List Autoencoder: Towards Deep Learning Based Reliable Transmission Over Noisy Channels	1454
<i>Hamid Saber, Homayoon Hatami, Jung Hyun Bae</i>	
Resolution-Adaptive Source-Channel Coding for End-To-End Wireless Image Transmission.....	1460
<i>Ke Yang, Sixian Wang, Kailin Tan, Jincheng Dai, Dekun Zhou, Kai Niu</i>	
On the Performance of Autoencoder-Based Space Optical Communications.....	1466
<i>Abd El-Rahman A. El-Fikky, Zouheir Rezki</i>	
Mixture GAN for Modulation Classification Resiliency Against Adversarial Attacks.....	1472
<i>Eyad Shtaiwi, Ahmed El Ouadrhiri, Majid Moradikia, Salma Sultana, Ahmed Abdelhadi, Zhu Han</i>	
Deep Learning-Based Synchronization for Uplink NB-IoT.....	1478
<i>Fayçal Ait Aoudia, Jakob Hoydis, Sebastian Cammerer, Matthijs Van Keirsbilck, Alexander Keller</i>	
Measurement-Based Admission Control in Sliced Networks: A Best Arm Identification Approach	1484
<i>Simon Lindståhl, Alexandre Proutiere, Andreas Johnsson</i>	
Decentralized Coordination in Partially Observable Queuing Networks	1491
<i>Jiekai Jia, Anam Tahir, Heinz Koepl</i>	
Multi-Agent Learning Automata for Online Adaptive Control of Large-Scale Traffic Signal Systems.....	1497
<i>Xuwei Hou, Lixing Chen, Junhua Tang, Jianhua Li</i>	
Synthetic Traffic Generation with Wasserstein Generative Adversarial Networks.....	1503
<i>Chao-Lun Wu, Yu-Ying Chen, Po-Yu Chou, Chih-Yu Wang</i>	
Multi-Agent DRL for Mitigating Power Collisions in SGF-NOMA Systems	1509
<i>Muhammad Fayaz, Wenqiang Yi, Yuanwei Liu, Arumugam Nallanathan</i>	
Simultaneous RIS Tuning and Differential Data Transmission for MISO OFDM Wireless Systems	1515
<i>Kun Chen-Hu, George C. Alexandropoulos, Ana García Armada</i>	
A Novel Maximum Distance Separable Code Based RIS-OFDM: Design and Optimization	1521
<i>Yiqian Huang, Ping Yang, Yue Xiao, Ming Xiao, Shaoqian Li, Wei Xiang</i>	
Power Scaling Law for Optical IRSs and Comparison with Optical Relays	1527
<i>Hedieh Ajam, Marzieh Najafi, Vahid Jamali, Robert Schober</i>	
Achievable Sum Rate of RIS-Aided Massive MIMO NOMA	1534
<i>Mayushi Jayasinghe, Gayan Amarasuriya</i>	
System-Level Simulation of RIS Assisted Wireless Communications System.....	1540
<i>Qi Gu, Dan Wu, Xin Su, Hanning Wang, Jingyuan Cui, Yifei Yuan</i>	

A Dynamic Multicast Tree Selection Algorithm in LEO Satellite Networks.....	1546
<i>Ke-Jun Zheng, Jang-Ping Sheu</i>	
Load-Adaptive and Energy-Efficient Topology Control in LEO Mega-Constellation Networks	1552
<i>Long Chen, Feilong Tang, Linghe Kong, Rui Li, Zhi Hou, Jiacheng Liu, Xu Li, Song Guo</i>	
LISP-LEO: Location/Identity Separation-Based Mobility Management for LEO Satellite Networks.....	1558
<i>Jun Hu, Tian Pan, Yujie Chen, Xuebei Zhang, Tao Huang, Yunjie Liu</i>	
Multi-Group Multicast Beamforming in LEO Satellite Communications.....	1564
<i>Dapeng Wu, Chen Qin, Yaping Cui, Peng He, Ruyan Wang</i>	
Towards Spatial Location Aided Fully-Distributed Dynamic Routing for LEO Satellite Networks.....	1570
<i>Guoliang Xu, Yanyun Zhao, Yongyi Ran, Ruili Zhao, Jiangtao Luo</i>	
Accelerated Maximum-Likelihood for Massive MIMO Unsourced Random Access.....	1576
<i>Juntao You, Wenjie Wang, Shansuo Liang, Wei Han, Bo Bai</i>	
Fast Signal Reconstruction Based on Compressed Sensing in NOMA-Aided Cell-Free Massive MIMO.....	1582
<i>Wenyuan Wang, Chaowei Wang, Mingliang Pang, Weidong Wang, Fan Jiang</i>	
Channel Model Mismatch Analysis for XL-MIMO Systems from a Localization Perspective	1588
<i>Hui Chen, Ahmed Elzanaty, Reza Ghazalian, Musa Furkan Keskin, Riku Jäntti, Henk Wymeersch</i>	
Referential Approximate Message Passing for Quantized Large MIMO Detection	1594
<i>Atsunori Shimamura, Takumi Takahashi, Shinsuke Ibi, Seiichi Sampei</i>	
EM Exposure Aware Transmission Design for Hybrid RIS and DMA Assisted Multiuser MIMO Uplink.....	1600
<i>Hanyu Jiang, Li You, Jue Wang, Wenjin Wang, Xiqi Gao</i>	
Low Complexity Hybrid Beamforming for mmWave Full-Duplex Integrated Access and Backhaul	1606
<i>Elyes Balti, Chris Dick, Brian L. Evans</i>	
Hybrid Beamforming for Ergodic Rate Maximization of mmWave Massive Grant-Free Systems	1612
<i>Gangle Sun, Xinping Yi, Wenjin Wang, Wei Xu</i>	
Active RISs: Signal Modeling, Asymptotic Analysis, and Beamforming Design	1618
<i>Zijian Zhang, Linglong Dai, Xibi Chen, Changhao Liu, Fan Yang, Robert Schober, H. Vincent Poor</i>	
Joint Subchannel Allocation and Beamforming for Multicast in Ultra-Dense LEO Backbone Network.....	1625
<i>Ting Ma, Bo Qian, Xiaohan Qin, Xin Zhang, Nan Cheng, Haibo Zhou</i>	
Joint Beamforming Design in DFRC Systems for Wideband Sensing and OFDM Communications	1631
<i>Zichao Xiao, Rang Liu, Ming Li, Yang Liu, Qian Liu</i>	
Robust Precoding for HF Skywave Massive MIMO with Imperfect CSI	1637
<i>Xianglong Yu, Xiqi Gao, An-An Lu, Jinlin Zhang, Hebing Wu, Geoffrey Ye Li</i>	
RSMA for Dual-Polarized Massive MIMO Networks: A SIC-Free Approach.....	1643
<i>Arthur S. De Sena, Pedro H. J. Nardelli, Daniel B. Da Costa, Petar Popovski, Constantinos B. Papadias, Merouane Debbah</i>	

Full-Duplex Massive MIMO Cellular Networks with Low Resolution ADC/DAC	1649
<i>Elyes Balti, Brian L. Evans</i>	
Carrier Aggregation for Improved Rate Versus Power Trade-Off in Massive MIMO Systems	1655
<i>Alessio Zappone, David López Pérez, Antonio De Domenico, Nicola Piovesan, Harvey Bao</i>	
Hardware-Aware Pilot Decontamination Precoding for Multi-Cell mMIMO Systems with Rician Fading.....	1661
<i>Harshit Kesarwani, Dheeraj Naidu Amudala, Venkatesh Tentu, Rohit Budhiraja</i>	
Triangular-QAM-Structured Constellation Design for Power-Domain Uplink NOMA	1667
<i>Hsuan-Po Liu, Po-Ning Chen</i>	
Energy-Efficient Solutions in Two-User Downlink NOMA Systems Aided by Ambient Backscattering	1673
<i>Hajar El Hassani, Anne Savard, E. Veronica Belmega, Rodrigo C. De Lamare</i>	
α -Fairness Based User Pairing for Downlink NOMA Systems with Imperfect SIC	1679
<i>Nemalidine Siva Mouni, Pavan M. Reddy, Abhinav Kumar, Prabhat K. Upadhyay</i>	
Packet Re-Management-Based C-NOMA for URLLC: Cooperation in the Second Phase of Relaying	1685
<i>Chengzhe Yin, Rui Zhang, Yongzhao Li, Yuhan Ruan, Tao Tao, Dong Li</i>	
Security Analysis of NOMA-FSO/RF Network Over Double Shadowed κ - μ and Málaga- \mathcal{M} Channels	1691
<i>Neji Mensi, Danda B. Rawat</i>	
Delay-Doppler Domain Tomlinson-Harashima Precoding for Downlink MU-MIMO OTFS Transmissions.....	1697
<i>Shuangyang Li, Jinhong Yuan, Paul Fitzpatrick, Taka Sakurai, Giuseppe Caire</i>	
Uplink D-MIMO Processing Using Kalman Filter Combining.....	1703
<i>Ke Wang Helmersson, Pål Frenger, Anders Helmersson</i>	
Wideband Terahertz Communications with AoSA: Beam Split Aggregation and Multiplexing	1709
<i>Boyu Ning, Lingxiang Li, Wenrong Chen, Zhi Chen</i>	
Novel Low-Complexity SWIPT Precoding Schemes.....	1715
<i>Konstantinos Ntougias, Ioannis Krikidis</i>	
Augmented Deep Unfolding for Downlink Beamforming in Multi-Cell Massive MIMO with Limited Feedback	1721
<i>Yifan Ma, Xianghao Yu, Jun Zhang, S. H. Song, Khaled B. Letaief</i>	
Integrating Aerial Base Stations for Sustainable Urban Mobile Networks	1727
<i>Michela Meo, Daniela Renga, Felice Scarpa</i>	
UAV-Assisted Efficient Far-Field Wireless Charging for WSN.....	1734
<i>Liyu Zhang, Xilong Liu, Nirwan Ansari</i>	
Dinkelbach-Guided Deep Reinforcement Learning for Secure Communication in UAV-Aided MEC Networks.....	1740
<i>Weidang Lu, Yu Ding, Yunqi Feng, Guoxing Huang, Nan Zhao, Arumugam Nallanathan, Xiaoniu Yang</i>	

Distributed Energy-Efficient Computation Offloading and Trajectory Planning in Aerial Edge Networks	1746
<i>Xiaoyan Huang, Yiding Wen, Supeng Leng, Yan Zhang</i>	
Green Offloading and Trajectory Scheduling of Rechargeable UAVs in Aerial Edge Networks	1752
<i>Ke Zhang, Jiayu Cao, Luyang Wang, Yan Zhang</i>	
Post-Quantum PHY-Layer Authentication for Secure Initial Access in V2X Communications.....	1758
<i>Dongyang Xu, James A. Ritcey</i>	
MuSigRDT: MultiSig Contract Based Reliable Data Transmission in Social Internet of Vehicle	1763
<i>Badavath Shraavan Naik, Somanath Tripathy, Susil Kumar Mohanty</i>	
Non-Cooperative Learning for Robust Spectrum Sharing in Connected Vehicles with Malicious Agents.....	1769
<i>Haoran Peng, Hanif Rahbari, Shanchieh Jay Yang, Li-Chun Wang</i>	
A PUF-Based Lightweight and Secure Mutual Authentication Mechanism for Remote Keyless Entry Systems.....	1776
<i>Rohini Poolat Parameswarath, Biplab Sikdar</i>	
IDS for CAN: A Practical Intrusion Detection System for CAN Bus Security.....	1782
<i>Brooke Lampe, Weizhi Meng</i>	
APBFT: An Adaptive PBFT Consensus for Private Blockchains	1788
<i>Kenza Riahi, Mohamed-El-Amine Brahmia, Abdelhafid Abouaissa, Lhassane Idoumghar</i>	
Leveraging Blockchain for Isolation Enhancement of Network Slices	1794
<i>Muhammad Muhammad Bala, Liqiang Zhao, Zhen Gao</i>	
One Picture is Worth a Thousand Words: A New Wallet Recovery Process	1801
<i>Hervé Chabanne, Vincent Despiegel, Linda Guiga</i>	
Scheduled Time-Sensitive Transmission Opportunities Over Wi-Fi	1807
<i>Dmitry Akhmetov, Dibakar Das, Dave Cavalcanti, Javier Ramirez-Perez, Laurent Cariou</i>	
Fast Wireless Backhaul: A Multi-Connectivity Enabled mmWave Cellular System.....	1813
<i>Athanasios Koutsaftis, Mustafa F. Özkoç, Fraida Fund, Pei Liu, Shivendra S. Panwar</i>	
Power Adaptation in URLLC Over Parallel Fading Channels in the Finite Blocklength Regime	1819
<i>Hongsen Peng, Meixia Tao, Tobias Kallehauge, Petar Popovski</i>	
Rate Meta-Distribution in mmW D2D Networks with Beam Misalignment	1825
<i>Yibo Quan, Marceau Coupechoux, Jean-Marc Kélif</i>	
Increasing Fault Tolerance and Throughput with Adaptive Control Plane in Smart Factories	1831
<i>Cao Vien Phung, Admela Jukan</i>	
A Novel Sybil Attack Detection Mechanism for Mobile IoT Networks	1838
<i>Seda Dogan-Tusha, Saud Althumibat, Marwa Qaraqe</i>	
Adversarial Machine Learning-Based Anticipation of Threats Against Vehicle-To-Microgrid Services	1844
<i>Ahmed Omara, Burak Kantarci</i>	

Misbehavior Detection in Vehicular Networks: An Ensemble Learning Approach.....	1850
<i>Roshan Sedar, Charalampos Kalalas, Paolo Dini, Jesus Alonso-Zarate, Francisco Vázquez-Gallego</i>	
False Data Injection Attacks Against Low Voltage Distribution Systems	1856
<i>Panagiotis Radoglou-Grammatikis, Christos Dalamagkas, Thomas Lagkas, Magda Zafeiropoulou, Maria Atanasova, Pencho Zlatev, Alexandros-Apostolos A. Boulogeorgos, Vasileios Argyriou, Evangelos K. Markakis, Ioannis Moscholios, Panagiotis Sarigiannidis</i>	
A Robust CSI-Based Passive Perception Method Using CNN and Attention-Based Bi-Directional LSTM	1862
<i>Zhengran He, Guozhen Xu, Siyuan Xu, Yu Wang, Guan Gui, Haris Gacanin, Fumiyuki Adachi</i>	
Robust and Efficient Modulation Recognition with Pyramid Signal Transformer.....	1868
<i>He Su, Xinyi Fan, Huaqun Liu</i>	
Modulation Signal Recognition Based on Selective Knowledge Transfer.....	1875
<i>Huaji Zhou, Xu Wang, Jing Bai, Zhu Xiao</i>	
CNN-Enabled Multiple Power-Levels Identification in Cognitive Radio Networks	1881
<i>Zhenyu Tan, Qi Liu, Zan Li, Danyang Wang, Ning Zhang, Hong-Ning Dai</i>	
Pilot Design and Signal Detection for Symbiotic Radio Over OFDM Carriers	1887
<i>Hao Chen, Qianqian Zhang, Ruizhe Long, Ying-Chang Liang</i>	
Towards Coverage-Aware Cooperative Video Caching in LEO Satellite Networks	1893
<i>Ruili Zhao, Yongyi Ran, Jiangtao Luo, Shuangwu Chen</i>	
Trans-RL: A Prediction-Control Approach for QoE-Aware Point Cloud Video Streaming	1899
<i>Cunhui Zhang, Yangjie Cao, Zhi Liu, Rui Yin, Yongdong Zhu, Xianfu Chen</i>	
Distributed Routing Controller for Large-Scale Live Video Streams in Real-Time Networks	1905
<i>Rui Li, Jessie Hui Wang, Chao Xu, Tao Yu, Jilong Wang, Hao Wu, Kai Zheng</i>	
Hybrid P2P-CDN Architecture for Live Video Streaming: An Online Learning Approach	1911
<i>Reza Farahani, Abdelhak Bentaleb, Ekrem Çetinkaya, Christian Timmerer, Roger Zimmermann, Hermann Hellwagner</i>	
Subjective Quality of Experience Assessment in Mobile Cloud Games	1918
<i>Henrique Souza Rossi, Niclas Ögren, Karan Mitra, Irina Cotanis, Christer Åhlund, Per Johansson</i>	
Coded MapReduce with Pre-Set Data and Reduce Function Assignments.....	1924
<i>Yuhan Wang, Youlong Wu</i>	
Asymmetric Multi-Antenna Coded Caching for Location-Dependent Content Delivery	1930
<i>Hamidreza Bakhshzad Mahmoodi, Mohammad Javad Salehi, Antti Tölli</i>	
Optimal Bandwidth Allocation for Multicast-Cache-Aided on-Demand Streaming in Wireless Networks	1936
<i>Mohsen Amidzadeh, Olav Tirkkonen, Giuseppe Caire</i>	
Over-The-Air Federated Learning with Energy Harvesting Devices	1942
<i>Ozan Ayygün, Mohammad Kazemi, Deniz Gündüz, Tolga M. Duman</i>	

Modeling Evapotranspiration in IoT Based WSN for Irrigation Scheduling: An Optimized DL Approach	1948
<i>Gitika Sharma, Pulkit, Himanshu Sharma, Sushma Jain, Neeraj Kumar</i>	
Optimizing Edge SLAM: Judicious Parameter Settings and Parallelized Map Updates	1954
<i>Peter Sossalla, Johannes Hofer, Justus Rischke, Johannes Busch, Giang T. Nguyen, Martin Reisslein, Frank H. P. Fitzek</i>	
Optimizing Synchronization Times for Position Tracking of a Mobile Asset in GPS-Denied Environments.....	1960
<i>Caleb M. Bowyer, John M. Shea, Tan F. Wong, Warren E. Dixon</i>	
Optimal Mobile IRS Deployment with Reinforcement Learning Encoder Decoders	1966
<i>Adel Mounir Said, Mohammed Laroui, Chérifa Boucetta, Hossam Afifi, Hassine Moun gla</i>	
The Role of Feedback in AoI Optimization Under Limited Transmission Opportunities	1972
<i>Andrea Munari, Leonardo Badia</i>	
Design of Cyber-Physical Security Testbed for Multi-Stage Manufacturing System	1978
<i>Stephen J. Coshatt, Qi Li, Bowen Yang, Shushan Wu, Darpan Shrivastava, Jin Ye, Wenzhan Song, Feraidoon Zahiri</i>	
The Limitations of Unsupervised Machine Learning for Identifying Malicious Nodes in IoT Networks	1984
<i>Fatima Salma Sadek, Abdelhafid Abouaissa, Pascal Lorenz</i>	
Intelligent Ensemble Based System for Rare Attacks Detection in IoT Networks	1990
<i>Muder Almiani, Alia Abughazleh, Yaser Jararweh, Abdul Razaque</i>	
Reconstruction of Human Trajectories Based on Anonymous Sensor Data for Estimating Infection Route	1996
<i>Kotaro Matsuda, Hiroki Ikeuchi, Yousuke Takahashi, Tsuyoshi Toyono</i>	
Security-Aware Node Replacements and Incremental Updates in Industrial IoT Platforms.....	2002
<i>Wassim Itani, Maha Shamseddine, Elisha J Hosey-Stewart</i>	
Multi-Gateway Demodulation in LoRa	2008
<i>Alexandre Guitton, Megumi Kaneko</i>	
Packet Delivery Ratio Guarantees for Differentiated LoRaWanServices	2014
<i>Alessandro Aimi, Fabrice Guillemin, Stéphane Rovedakis, Stefano Secci</i>	
Fundamentals and Performance of the LoRaWan Downlink: An Experimental Approach	2020
<i>Mohamed Hammache, Rahim Kacimi, André-Luc Beylot</i>	
LoRaLOFT-A Local Outlier Factor-Based Malicious Nodes Detection Method on MAC Layer for LoRaWAN.....	2026
<i>Mi Chen, Lynda Mokdad, Jalel Ben Othman, Jean-Michel Fourneau</i>	
Precise Onboard Aircraft Cabin Localization Using UWB and ML	2032
<i>Fabien Geyer, Dominic Schupke</i>	
LTE-Like Paging and Synchronization for Ambient Backscatter	2038
<i>Yunyun Feng, Wei Gong</i>	

Non-Orthogonal Multicast and Unicast Robust Beamforming in Integrated Terrestrial-Satellite Networks	2044
<i>Deyi Peng, Stavros Domouchtsidis, Symeon Chatzinotas, Yun Li, Bjorn Ottersten</i>	
An Efficient Codebook Based Radio Parameter Optimization Method for Mobile Networks.....	2050
<i>Linzhi Shen, Shaowei Wang</i>	
Network-Slice-As-A-Service Deployment Cost Assessment in an End-To-End 5G Testbed.....	2056
<i>Tolga O. Atalay, Dragoslav Stojadinovic, Alireza Famili, Angelos Stavrou, Haining Wang</i>	
Spectral Efficiency Analysis of Uplink-Downlink Decoupled Access in C-V2X Networks	2062
<i>Luofang Jiao, Kai Yu, Yunting Xu, Tianqi Zhang, Haibo Zhou, Xuemin Shen</i>	
Lyapunov Drift-Based Scheduling for Short-Packet Transmission with Finite Blocklength Coding	2068
<i>Yuanrui Liu, Joohyun Lee, Yuxing Han, Wei Chen</i>	
Enhancing Automatic Attack Detection Through Spectral Decomposition of Network Flows	2074
<i>Lucas Airam C. De Souza, Gustavo F. Camilo, Miguel Elias M. Campista, Luis Henrique M. K. Costa, Otto Carlos M. B. Duarte</i>	
Edge Computing-Enabled Intrusion Detection for C-V2X Networks Using Federated Learning.....	2080
<i>Aymene Selamnia, Bouziane Brik, Sidi Mohammed Senouci, Abdelwahab Boualouache, Shajjad Hossain</i>	
Device Identification in the Presence of MAC Randomization.....	2086
<i>Ihab Zhaika, David Hay</i>	
ApkClassiFy: Identification and Classification of Packed Android Malicious Applications.....	2092
<i>Xu Guo, Tao Zheng, Xingshu Chen, Qixu Wang, Jiang Shao, Zhijie Hu</i>	
A Novel Intrusion Detection System for Next Generation In-Vehicle Networks.....	2098
<i>Zhouyan Deng, Yijie Xun, Jiajia Liu, Shouqing Li, Yilin Zhao</i>	
Optimizing the Performance of the Interaction-Based Caching in CCN.....	2104
<i>Fariborz Derakhshan, Andreas Timm-Giel</i>	
Cache Pricing Mechanism for ICN in the Scenario of Multiple Content Providers	2110
<i>Quan Zheng, Rujie Peng, Wenliang Yan, Zhenghuan Xu, Feng Yang, Xiaobin Tan</i>	
CaMP-INC: Components-Aware Microservices Placement for In-Network Computing Cloud-Edge Continuum.....	2116
<i>Soukaina Ouledsidi Ali, Halima Elbiaze, Roch Glitho, Wessam Ajib</i>	
On the Consolidation of the Internet Domain Name System	2122
<i>Luciano Zembruzki, Arthur Selle Jacobs, Lisandro Zambenedetti Granville</i>	
On the Average Cost and Latency of Migration to the Next Generation of Networks.....	2128
<i>Mohammad Javad-Kalbasi, Mikinori Kobayashi, Hidetoshi Matsumura, Masahiko Sugimura, Xi Wang, Paparao Palacharla, Shahrokh Valaee</i>	
Self-Taught Black-Box Adversarial Attack to Multilayer Network Automation.....	2134
<i>Xiaoqin Pan, Zuqing Zhu</i>	
Modeling Soft-Failure Evolution for Triggering Timely Repair with Low QoT Margins	2140
<i>Sadananda Behera, Tania Panayiotou, Georgios Ellinas</i>	

Optical Network Authentication Through Rayleigh Backscattering Fingerprints of the Composing Fibers.....	2146
<i>Pantea Nadimi Goki, Thomas Teferi Mulugeta, Nicola Sambo, Roberto Caldelli, Luca Potì</i>	
Strategic Cooperation Among Datacenter Providers and Optical-Network Carriers for Disaster Recovery.....	2151
<i>Subhadeep Sahoo, Sugang Xu, Sifat Ferdousi, Yusuke Hirota, Massimo Tornatore, Yoshinari Awaji, Biswanath Mukherjee</i>	
CycleDCN: A Scalable Architecture for Optical Data Center Network.....	2157
<i>Hao Wang, Bing Hu, Pei Xiao</i>	
AoI-Aware Scheduling and Trajectory Optimization for Multi-UAV-Assisted Wireless Networks	2163
<i>Yusi Long, Wenjie Zhang, Shimin Gong, Xiaoling Luo, Dusit Niyato</i>	
3D UAV BS Positioning and Backhaul Management in Cellular Network Via Stochastic Optimization.....	2169
<i>Zahra Rahimi, Reza Ghanbari, Amir Hossein Mohajerzadeh, Hamed Ahmadi, Mehdi Sookhak</i>	
Trajectory Optimization for Fast Sensor Energy Replenishment Using UAVs as RF Sources.....	2176
<i>Igor Dias Da Silva, Yann Busnel, Christelle Caillouet</i>	
Joint Neural Network for Trajectory and Communication Design in Multi-UAV Systems.....	2182
<i>Qiushuo Hou, Yunlong Cai, Qiyu Hu, Mengyuan Lee, Guanding Yu</i>	
The Capability-Security Trade-Off of Blockchain for Data Sharing at the Network Edge	2188
<i>Yixin Li, Liang Liang, Yunjian Jia, Wanli Wen, Zhengchuan Chen</i>	
Adaptive Quantization Based on Ensemble Distillation to Support FL Enabled Edge Intelligence.....	2194
<i>Yi-Jing Liu, Shuang Qin, Gang Feng, Dusit Niyato, Yao Sun, Jianhong Zhou</i>	
Deep Reinforcement Learning-Guided Task Reverse Offloading in Vehicular Edge Computing	2200
<i>Anqi Gu, Huaming Wu, Huijun Tang, Chaogang Tang</i>	
Deep Learning-Based Task Offloading and Time Allocation for Edge Computing WBANs.....	2206
<i>Rongrong Zhang, Hui Li, Yingying Qiao, Mengyu Li, Xu Xia</i>	
Deep Reinforcement Learning Based Container Cluster Placement Strategy in Edge Computing Environment	2212
<i>Zhuo Chen, Bowen Zhu</i>	
Deep Reinforcement Learning for Online Latency Aware Workload Offloading in Mobile Edge Computing.....	2218
<i>Zeinab Akhavan, Mona Esmaeili, Babak Badnava, Mohammad Yousefi, Xiang Sun, Michael Devetsikiotis, Payman Zarkesh-Ha</i>	
Deep Reinforcement Learning Based Contract Incentive for UAVs and Energy Harvest Assisted Computing.....	2224
<i>Che Chen, Shimin Gong, Wenjie Zhang, Yifeng Zheng, Yeo Chai Kiat</i>	
Joint Optimization of DNN Inference Delay and Energy Under Accuracy Constraints for AR Applications.....	2230
<i>Guangjin Pan, Heng Zhang, Shugong Xu, Shunqing Zhang, Xiaojing Chen</i>	
A2C Learning for Tasks Segmentation with Cooperative Computing in Edge Computing Networks.....	2236
<i>Yukun Sun, Xing Zhang</i>	

Performance Efficient Layer-Aware DNN Inference Task Scheduling in GPU Cluster	2242
<i>Hongmin Geng, Deze Zeng, Yuepeng Li</i>	
A Privacy-Preserving Data Transmission Protocol with Constant Interactions in E-Health	2248
<i>Huijie Yang, Jian Shen, Mahammad Obaidat, Pandi Vijayakumar, Kuei-Fang Hsiao</i>	
Unsupervised Representation Learning-Based Doppler Ultrasound Signal Quality Assessment	2254
<i>Xintong Shi, Kohei Yamamoto, Tomoaki Ohtsuki, Yutaka Matsui, Kazunari Owada</i>	
Trajectory-Based Fall Detection and Recognition Using Ultra-Wideband Signals.....	2260
<i>Anna Li, Eliane Bodanese, Stefan Poslad, Tianwei Hou, Fei Luo, Kaishun Wu</i>	
Fetal Arrhythmia Detection Based on Deep Learning Using Fetal ECG Signals.....	2266
<i>Sara Nakatani, Kohei Yamamoto, Tomoaki Ohtsuki</i>	
Heart Arrhythmia Classification Using Electrocardiogram Signals.....	2272
<i>Xinyi Wu, Zouheir Rezki</i>	
Spectrum Sharing of Mobile Network Operators Based on Deep Reinforcement Learning in 5G and Beyond	2278
<i>Yi-Huai Hsu, Chen-Fan Chang, Chao-Hung Lee</i>	
Learning Hybrid Precoding Efficiently for mmWave Systems with Mathematical Properties	2284
<i>Shengjie Liu, Jia Guo, Chenyang Yang</i>	
Grid-Less mmWave Beam Alignment Through Deep Learning	2290
<i>Yuqiang Heng, Jeffrey G. Andrews</i>	
Data-Driven Blind Synchronization and Interference Rejection for Digital Communication Signals	2296
<i>Alejandro Lancho, Amir Weiss, Gary C. F. Lee, Jennifer Tang, Yuheng Bu, Yury Polyanskiy, Gregory W. Wornell</i>	
Distributed Reinforcement Learning for Low-Delay Uplink User Scheduling in Multicell Networks	2303
<i>Apostolos Destounis, Dimitrios Tsilimantos</i>	
A Hybrid HARQ Feedback Prediction Approach for Single- And Cloud-RANs in the sub-THz Regime	2309
<i>Baris Göktepe, Cornelius Hellge, Thomas Schierl, Slawomir Stanczak</i>	
Accurate Communication Traffic Forecasting with Multi-Source Adaptive Feature Boosting	2316
<i>Chengming Hu, Ju Wang, Di Wu, Xue Liu, Gregory Dudek</i>	
Learning Generalized Wireless MAC Communication Protocols Via Abstraction.....	2322
<i>Luciano Miuccio, Salvatore Riolo, Sumudu Samarakoon, Daniela Panno, Mehdi Bennis</i>	
QoS-Aware Task Scheduling Based on Reinforcement Learning for the Cloud-Fog Continuum	2328
<i>Judy C. Guevara, Ricardo Da S. Torres, Luiz F. Bittencourt, Nelson L. S. Da Fonseca</i>	
RIS Partitioning Based Scalable Beamforming Design for Large-Scale MIMO	2334
<i>Chang Cai, Xiaojun Yuan, Ying-Jun Angela Zhang</i>	
EMF-Aware MU-MIMO Beamforming in RIS-Aided Cellular Networks	2340
<i>Yi Yu, Rita Ibrahim, Dinh-Thuy Phan-Huy</i>	
On the Efficient Design of RIS-Assisted MIMO Transmission	2346
<i>Hong Niu, Xia Lei, Yue Xiao, Ning Miao, Ming Xiao, Shahid Mumtaz</i>	

Joint Transmit and Reflective Beamforming for RIS-Assisted Secret Key Generation	2352
<i>Lei Hu, Guyue Li, Xuewen Qian, Derrick Wing Kwan Ng, Aiqun Hu</i>	
Coverage Enhancements Using RIS-Integrated NR	2358
<i>Visa Tapio, Arman Shojaeifard, Deepa Jagyasi, Pekka Pirinen, Markku Juntti</i>	
AI-Based Ground Station-As-A-Service for Optimal Cost-Latency Satellite Data Downloading	2363
<i>Gandhimathi Velusamy, Ricardo Lent</i>	
Machine Learning-Based Flexible Payload Power Resource Allocation for Non-Orthogonal SATCOM	2369
<i>Yazhou Zhu, Christian A. Hofmann, Andreas Knopp</i>	
ZTEI: Zero-Trust and Edge Intelligence Empowered Continuous Authentication for Satellite Networks	2376
<i>Peiyu Fu, Jun Wu, Xi Lin, Ao Shen</i>	
FL-Task-Aware Routing and Resource Reservation Over Satellite Networks.....	2382
<i>Peng Wang, Hongyan Li, Binbin Chen</i>	
Distributed Precoding Design for Multi-Group Multicasting in Cell-Free Massive MIMO	2388
<i>Bikshapathi Gouda, Italo Atzeni, Antti Tölli</i>	
A Measure Preserving Mapping for Structured Grassmannian Constellations in SIMO Channels.....	2394
<i>Diego Cuevas, Javier Álvarez-Vizoso, Carlos Beltrán, Ignacio Santamaria, Vít Tucek, Gunnar Peters</i>	
Dynamic-Connected Hybrid Precoding for MIMO-OFDM Systems with Low-Resolution Phase Shifters	2400
<i>Shao-Xuan Yu, Ming-Chun Lee, Ta-Sung Lee</i>	
Linear MIMO Precoders Design for Finite Alphabet Inputs Via Model-Free Training.....	2407
<i>Chen Cao, Biqian Feng, Yongpeng Wu, Derrick Wing Kwan Ng, Wenjun Zhang</i>	
Constellation-Oriented Perturbation for Scalable-Complexity MIMO Nonlinear Precoding.....	2413
<i>Jinfei Wang, Yi Ma, Na Yi, Rahim Tafazolli, Fei Tong</i>	
Parametrical Channel Estimation in mmWave Using Atomic Norm	2419
<i>Antonia Tulino, Matilde Sánchez-Fernández, Adrián Vega Delgado, Álvaro Callejas-Ramos</i>	
Multi-Beam Design for Extremely Large-Scale RIS Aided Near-Field Wireless Communications.....	2426
<i>Decai Shen, Linglong Dai</i>	
Single-Snapshot Localization for Near-Field RIS Model Using Atomic Norm Minimization	2432
<i>Omar Rinchi, Ahmed Elzanaty, Ahmad Alsharoha</i>	
Joint Sensing and Transmission Optimization in IRS-Assisted CRNs: Throughput Maximization.....	2438
<i>Wei Wu, Zi Wang, Fuhui Zhou, Baoyun Wang, Qihui Wu, Naofal Al-Dhahir</i>	
Quantum Neural Networks for Optimal Resource Allocation in Cell-Free MIMO Systems	2444
<i>Bhaskara Narottama, Trung Q. Duong</i>	
Cell-Free Massive MIMO with Low-Resolution ADCs and I/Q Imbalance Over Spatially Correlated Channels	2450
<i>Zhilong Liu, Jiayi Zhang, Zhe Wang, Bo Ai, Derrick Wing Kwan Ng</i>	

A Slotted Unsourced Random Access Scheme with a Massive MIMO Receiver	2456
<i>Mert Ozates, Mohammad Kazemi, Tolga M. Duman</i>	
Analysis of Hardware-Impaired Multi-Cell Massive MIMO with Rician Fading and Phase Shifts.....	2462
<i>Dheeraj Naidu Amudala, Sauradeep Dey, Rohit Budhiraja</i>	
A Realistic Path Loss Model for Cell-Free Massive MIMO in Urban Environments	2468
<i>Thomas Choi, Issei Kanno, Masaaki Ito, Wei-Yu Chen, Andreas F. Molisch</i>	
Vandermonde Constrained Tensor Decomposition for Hybrid Beamforming in Multi-Carrier MIMO Systems	2474
<i>Mohamed Salah Ibrahim, Akshay Malhotra, Mihaela Beluri, Arnab Roy, Shahab Hamidi-Rad</i>	
Hard Delay Constrained Communications Over Parallel Fading Channels	2480
<i>Changkun Li, Wei Chen, H. Vincent Poor</i>	
Dynamic Range Improvement in Bistatic Backscatter Communication Using Distributed MIMO	2486
<i>Ahmet Kaplan, Joao Vieira, Erik G. Larsson</i>	
Performance Evaluation of Dynamic Metasurface Antennas: Impact of Insertion Losses and Coupling	2493
<i>Pablo Ramirez-Espinosa, Robin Jess Williams, Jide Yuan, Elisabeth De Carvalho</i>	
DFT-Based Wideband Line-Of-Sight MIMO Communication.....	2499
<i>Mohammad M. Mojahedian, Masoud Attarifar, Angel Lozano</i>	
A Joint PHY and MAC Layer Design for Coded Random Access with Massive MIMO	2505
<i>Lorenzo Valentini, Marco Chiani, Enrico Paolini</i>	
MIMO-OFDM Downlink with Memoryful Hardware Non-Linearities	2511
<i>Nikolaos Kolomvakis, George Jöngren, Ulf Gustavsson, Bo Göransson</i>	
Regularized Ising Formulation for Near-Optimal MIMO Detection Using Quantum Inspired Solvers.....	2517
<i>Abhishek Kumar Singh, Kyle Jamieson, Peter L. McMahon, Davide Venturelli</i>	
Perturbation-Based Formulation of Maximum Likelihood MIMO Detection for Coherent Ising Machines	2523
<i>Abhishek Kumar Singh, Davide Venturelli, Kyle Jamieson</i>	
Sparse Vector Codes for MIMO ISI Channels with Low-Resolution ADCs	2529
<i>Yunseo Nam, Yo-Seb Jeon, Byonghyo Shim</i>	
Combining Blind Equalization and Automatic Modulation Classification in a Loop Structure.....	2536
<i>Senhao Gao, Mehul Motani</i>	
Collaborative Cloud and Edge Computing in 5G Based Train Control Systems	2542
<i>Yang Li, Li Zhu</i>	
Efficiency-Oriented Task Offloading with Quality Level Constraint in Green Edge Computing.....	2548
<i>Maosheng Zhu, Xi Li, Hong Ji, Heli Zhang</i>	
RIS-Assisted Task Offloading for Wireless Dead Zone to Minimize Delay in Edge Computing.....	2554
<i>Mithun Mukherjee, Vikas Kumar, Suman Kumar, C. X. Mavromoustakis, Qi Zhang, Mian Guo</i>	
Matching Based Joint Trading Contract of Energy and Computation in Virtual Power Plant	2560
<i>Yanhui Wang, Li Wang, Lianming Xu, Zemin Sun, Kuankuan Sima</i>	

AHP4HPA: An AHP-Based Autoscaling Framework for Kubernetes Clusters at the Network Edge	2566
<i>Ioannis Dimolitsas, Dimitrios Spatharakis, Dimitrios Dechouniotis, Symeon Papavassiliou</i>	
Addressing the Tangle Vulnerability: A Preventive Strategy for IOTA by Using Large Deviation Theory	2572
<i>Yinfeng Chen, Yu Guo, Jun Chen, Rongfang Bie</i>	
Propagable Backdoors Over Blockchain-Based Federated Learning Via Sample-Specific Eclipse	2579
<i>Zheng Yang, Gaolei Li, Jun Wu, Wu Yang</i>	
WeVoting: Blockchain-Based Weighted E-Voting with Voter Anonymity and Usability.....	2585
<i>Zikai Wang, Xinyi Luo, Meiqi Li, Wentuo Sun, Kaiping Xue</i>	
An Efficient Blockchain-Based Time-Stamping Scheme Using Commitment Signatures	2591
<i>Sichao Zhang, Yutong Zhou, Zirui Wang, Yan Huang, Chi Zhang, Lingbo Wei</i>	
Malicious Blockchain Domain Detection Based on Heterogeneous Information Network	2597
<i>Jian Han, Zhonghua Wang, Songhao Jiang, Tianning Zang</i>	
TDL-IDS: Towards a Transfer Deep Learning Based Intrusion Detection System	2603
<i>Xingguo Sun, Weizhi Meng, Wei-Yang Chiu, Brooke Lampe</i>	
Physics-Informed Cyber-Attack Detection in Wind Farms.....	2609
<i>Faris Alotibi, David Tipper</i>	
SDAID: Towards a Hybrid Signature and Deep Analysis-Based Intrusion Detection Method	2615
<i>Hoang V. Vo, Hoa N. Nguyen, Tu N. Nguyen, Hanh P. Du</i>	
Graph-Based Intrusion Detection System Using General Behavior Learning.....	2621
<i>Huidi Zhu, Jialiang Lu</i>	
Towards Artificial Neural Network Based Intrusion Detection with Enhanced Hyperparameter Tuning	2627
<i>Andrei Nicolae Calugar, Weizhi Meng, Haijun Zhang</i>	
Testbed SDR Implementation Approach for Millimetre Wave IoT Applications.....	2633
<i>Roman Glazkov, Berna Ozbek, Alexander Pyattaev, Leila Musavian, Yevgeni Koucheryavy</i>	
Delay Jitter Modeling for Low-Latency Wireless Communications in Mobility Scenarios.....	2638
<i>Anan Sawabe, Yusuke Shinohara, Takanori Iwai</i>	
VFCSIM: A Simulation Framework for Real-Time Multi-Service Virtual Function Chains Deployment	2644
<i>Vassilios Tsakanikas, Tasos Dagiuklas</i>	
Modeling Ledger Dynamics in IOTA Blockchain	2650
<i>Fengyang Guo, Xun Xiao, Artur Hecker, Schahram Dustdar</i>	
Outage Probability of V2V Multiple-Antenna Rice Fading Links with Explicit Ground Reflection.....	2656
<i>Miguel Gutiérrez Gaitán, Ramiro Sámano-Robles, Jonathan Rodriguez</i>	
Collaborative Feature Maps of Networks and Hosts for AI-Driven Intrusion Detection	2662
<i>Jinxin Liu, Murat Simsek, Burak Kantarci, Mehran Bagheri, Petar Djukic</i>	
Intrusion Detection Model Updates Through GAN Data Augmentation and Transfer Learning.....	2668
<i>Pedro Horchulhack, Eduardo K. Viegas, Altair O. Santin, Jhonatan Geremias</i>	

Macroscopic Analysis of IoT Botnets	2674
<i>Hatem A. Almazraqi, Mathew Woodyard, Troy Mursch, Dimitrios Pezaros, Angelos K. Marnnerides</i>	
Insider Threat Detection Using Generative Adversarial Graph Attention Networks	2680
<i>Chaoyang Li, Fenghua Li, Mingjie Yu, Yunchuan Guo, Yitong Wen, Zifu Li</i>	
Secure mmWave C-V2X Communications Using Cooperative Jamming	2686
<i>Mingjie Yang, Ying Ju, Lei Liu, Qingqi Pei, Keping Yu, Joel J. P. C. Rodrigues</i>	
Joint Schedule of Task- And Data-Oriented Communications.....	2692
<i>Ran Li, Chuan Huang, Xiaoqi Qin, Shengpei Jiang, Nan Ma, Shuguang Cui</i>	
Neuro-Symbolic Artificial Intelligence (AI) for Intent Based Semantic Communication	2698
<i>Christo Kurisummoottil Thomas, Walid Saad</i>	
A Robust Deep Learning Enabled Semantic Communication System for Text	2704
<i>Xiang Peng, Zhijin Qin, Danlan Huang, Xiaoming Tao, Jianhua Lu, Guangyi Liu, Chengkang Pan</i>	
A Temporal-Pattern Backdoor Attack to Deep Reinforcement Learning.....	2710
<i>Yinbo Yu, Jiajia Liu, Shouqing Li, Kepu Huang, Xudong Feng</i>	
Performance Analysis of Jammer-Aided Covert RIS-NOMA Systems	2716
<i>Yanyu Cheng, Jianyuan Lu, Dusit Niyato, Biao Lyu, Minrui Xu, Shunmin Zhu</i>	
Robust Anomaly Diagnosis in Heterogeneous Microservices Systems Under Variable Invocations	2722
<i>Jingjing Yang, Yuchun Guo, Yishuai Chen, Yongxiang Zhao, Zhongda Lu, Yuqiang Liang</i>	
TML-CDS: Trusted Multi-Layer Connected Dominating Set for Secure Routing in Distributed Networks	2728
<i>Weidong Fang, Li Yi, Chunsheng Zhu, Guoqing Jia, Wuxiong Zhang</i>	
A Multi-Objective Optimization Approach to Resource Allocation for Edge-Based Digital Twin	2733
<i>Shuwen Cai, Yuanyuan Xu</i>	
Evaluation of Sensors Impact on Information Redundancy in Cooperative Perception System	2739
<i>Bassel S. Chawky, Mohamed S. Hefeida, Aboelmagd Noureldin</i>	
Performance Analysis and Evaluation of RF Jamming in IoT Networks.....	2745
<i>Abubakar S. Ali, Michael Baddeley, Lina Bariah, Martin Andreoni Lopez, Willian T. Lunardi, Jean-Pierre Giacalone, Sami Muhaidat</i>	
A New Analytic Approach to Reduce PAPR in Short-Frame OFDM Sensors' Network.....	2752
<i>Patrick Thomas, Raouia Masmoudi Ghodhbane, Oscar D'Almeida</i>	
Delay Analysis of Reservation Based Random Access: A Tandem Queue Model	2758
<i>Haiming Hui, Wei Chen</i>	
Towards Bilateral Client Selection in Federated Learning Using Matching Game Theory	2764
<i>Osama Wehbi, Sarhad Arisdakessian, Omar Abdel Wahab, Hadi Otrok, Safa Otoum, Azzam Mourad</i>	
Distributed Detection with Multiple Sensors in the Presence of Sybil Attacks.....	2770
<i>Wael Hashlamoun, Swastik Brahma, Pramod K. Varshney</i>	

An Attack-Resilient and Energy-Adaptive Monitoring System for Smart Farms	2776
<i>Qisheng Zhang, Yash Mahajan, Ing-Ray Chen, Dong Sam Ha, Jin-Hee Cho</i>	
Optimized Moving Target Defense Against DDoS Attacks in IoT Networks: When to Adapt?	2782
<i>Arnold Brendan Osei, Swati Rudra Yeginati, Yaser Al Mtawa, Talal Halabi</i>	
Adversarial Attacks Against IoT Networks Using Conditional GAN Based Learning	2788
<i>Hafsa Benaddi, Mohammed Jouhari, Khalil Ibrahim, Abderrahim Benslimane, El Mehdi Amhoud</i>	
False Data Injection Attack Against Cyber-Physical Systems Protected by a Watermark	2794
<i>Khalil Guibene, Nadhir Messai, Marwane Ayaida, Lyes Khoukhi, Atika Rivenq, Yassin El Hillali</i>	
DRIVE-B5G: A Flexible and Scalable Platform Testbed for B5G-V2X Networks	2800
<i>Taki Eddine Toufik Djaidja, Bouziane Brik, Abdelwahab Boualouache, Sidi Mohammed Senouci, Yacine Ghamri-Doudane</i>	
Optimised CNN for Human Counting Using Spectrograms of Probabilistic WiFi CSI	2806
<i>Aryan Sharma, Wenqi Jiang, Deepak Mishra, Sanjay Jha, Aruna Seneviratne</i>	
Passive Human Tracking Using One Pair of Commodity WiFi Devices with Unknown Locations	2812
<i>Yue Jin, Zengshan Tian, Heng Wang, Mu Zhou</i>	
S-Pot: A Smart Honeypot Framework with Dynamic Rule Configuration for SDN	2818
<i>Javier Franco, Ahmet Aris, Leonardo Babun, A. Selcuk Uluagac</i>	
Time Sensitive Data Access for Massive Users: A Mean-Field Approximation Approach	2825
<i>Changkun Li, Wei Chen, Khaled B. Letaief</i>	
Double Layers Flexible Radio Access Network: User Cluster Centric Architecture Towards 6G	2831
<i>Xingzai Lv, Hua Rui, Jing Xu</i>	
Extended Coverage Without Roaming for Beyond 5G Non-Public Networks	2837
<i>Marius Corici, Fabian Eichhorn, Bjoern Riemer, Thomas Magedanz</i>	
RAN-CN Converged User-Plane for 6G Cellular Networks	2843
<i>Jiyoung Cha, Younggyoun Moon, Sunwoo Cho, Dongmyoung Kim, Jinho Choi, Jungsoo Jung, Juho Lee, Sunghyun Choi</i>	
Scheduler Design for Mobility-Aware Multipath QUIC	2849
<i>Wenjun Yang, Lin Cai, Shengjie Shut, Jianping Pan</i>	
Hierarchical Mean Field/Stackelberg Game Power Control for D2D Cooperative Relaying Networks	2855
<i>Zheng Wang, Brian L. Mark</i>	
Data Classification and Reinforcement Learning to Avoid Congestion on SDN-Based Data Centers	2861
<i>Gustavo Diel, Charles Christian Miers, Mauricio Aronne Pillon, Guilherme Piêgas Koslovski</i>	
On Block Delivery Time in Ethereum Network	2867
<i>Soosan Naderi Mighan, Jelena Mišic, Vojislav B. Mišic</i>	
Deep Reinforcement Learning for AoI Aware VNF Placement in Multiple Source Systems	2873
<i>Zhenke Chen, He Li, Kaoru Ota, Mianxiong Dong</i>	

Intent-Based Multi-Agent Reinforcement Learning for Service Assurance in Cellular Networks	2879
<i>Satheesh K. Perepu, Jean P. Martins, Ricardo Souza S, Kaushik Dey</i>	
Full Dynamic Orchestration in 5G Core Network Slicing Over a Cloud-Native Platform	2885
<i>Felipe Hauschild Grings, Lucas Baleeiro Dominato Silveira, Kleber Vieira Cardoso, Sand Correa, Lúcio Rene Prade, Cristiano Bonato Both</i>	
Self-Adaptive IDS in VANETs: A Game Theory and Deep Q-Learning Network Based Generic Scheme	2891
<i>Junwei Liang, Maode Ma, Geng Yang</i>	
Mobility-Aware Task Offloading in Fog-Assisted Networks	2897
<i>Sangeeta Kakati, Mehbub Alam, Rakesh Matam, Ferdous Ahmed Barbhuiya, Mithun Mukherjee</i>	
How Tezos Blockchain Can Meet IoT?.....	2903
<i>Quang Huy Do, Sami Souihi, Tong Van Van, Hai Anh Tran, Skander Mhadhbi</i>	
Network Slicing Via Transfer Learning Aided Distributed Deep Reinforcement Learning	2909
<i>Tianlun Hu, Qi Liao, Qiang Liu, Georg Carle</i>	
A Cloud-Based IoMT Data Sharing Scheme with Conditional Anonymous Source Authentication.....	2915
<i>Yan-Ping Wang, Xiao-Fen Wang, Hong-Ning Dai, Xiao-Song Zhang, Yu Su, Muhammad Imran, Nidal Nasser</i>	
Multi-Period Planning in Metro-Aggregation Networks Using Point-To-Multipoint Transceivers.....	2921
<i>Mohammad M. Hosseini, João Pedro, Nelson Costa, Antonio Napoli, Jaroslaw E. Prilepsky, Sergei K. Turitsyn</i>	
Prediction of Multiple Types of Traffic with a Novel Evaluation Metric Related to Bandwidth Blocking	2927
<i>Aleksandra Knapinska, Piotr Lechowicz, Krzysztof Walkowiak</i>	
Which Band Should Be Upgraded First After C+L Bands: A Comprehensive Case Study.....	2933
<i>Ningning Guo, Kai Zhang, Yongcheng Li, Ning Deng, Sanjay K. Bose, Gangxiang Shen</i>	
Optimal Placement of Hybrid Erbium-Doped Fiber/Raman Amplifiers in DWDM Networks.....	2939
<i>João Pedro, Nelson Costa</i>	
Network Performance of ROADM Architecture Enabled by Novel Wideband-Integrated WSS	2945
<i>Muhammad Umar Masood, Ihtesham Khan, Lorenzo Tunesi, Bruno Correia, Enrico Ghillino, Paolo Bardella, Andrea Carena, Vittorio Curri</i>	
Towards Real-World 6G Drone Communication: Position and Camera Aided Beam Prediction	2951
<i>Gouranga Charan, Andrew Hredzak, Christian Stoddard, Benjamin Berrey, Madhav Seth, Hector Nunez, Ahmed Alkhateeb</i>	
Uplink Coexistence for High Throughput UAVs in Cellular Networks.....	2957
<i>Ayat Zaki-Hindi, Rafhael Amorim, István Z. Kovács, Jeroen Wigard</i>	
Max-Min Rate Deployment Optimization for Backhaul-Limited Robotic Aerial 6G Small Cells.....	2963
<i>Yuan Liao, Vasilis Friderikos</i>	
On the Optimization of Cellular Networks for UAV Aerial Corridor Support	2969
<i>Matteo Bernabè, David Lopez-Perez, David Gesbert, Harvey Bao</i>	

Ahead-Me Coverage (AMC): On Maintaining Enhanced Mobile Network Coverage for UAVs.....	2975
<i>Hamed Hellaoui, Bin Yang, Tarik Taleb, Jukka Manner</i>	
Edge Intelligence-Based Obstacle Intrusion Detection in Railway Transportation.....	2981
<i>Taiyuan Gong, Li Zhu</i>	
ChannelFed: Enabling Personalized Federated Learning Via Localized Channel Attention	2987
<i>Kaiyu Zheng, Xuefeng Liu, Guogang Zhu, Xinghao Wu, Jianwei Niu</i>	
Federated Meta-Learning Framework for Few-Shot Fault Diagnosis in Industrial IoT	2993
<i>Jiao Chen, Jianhua Tang, Jie Chen</i>	
CryptoFE: Practical and Privacy-Preserving Federated Learning Via Functional Encryption.....	2999
<i>Xinyuan Qian, Hongwei Li, Meng Hao, Shuai Yuan, Xilin Zhang, Song Guo</i>	
FedAegis: Edge-Based Byzantine-Robust Federated Learning for Heterogeneous Data.....	3005
<i>Fangtong Zhou, Ruozhou Yu, Zhouyu Li, Huayue Gu, Xiaojian Wang</i>	
Data-Aware Hierarchical Federated Learning Via Task Offloading	3011
<i>Mulei Ma, Liantao Wu, Wenxiang Liu, Nanxi Chen, Ziyu Shao, Yang Yang</i>	
Fast Secure Aggregation for Privacy-Preserving Federated Learning.....	3017
<i>YanJun Liu, Xinyuan Qian, Hongwei Li, Meng Hao, Song Guo</i>	
FedRL: Improving the Performance of Federated Learning with Non-IID Data	3023
<i>Yufei Kang, Baochun Li, Timothy Zeyl</i>	
Wi-Uro: Real-Time Monitoring and Alarming for Urine Bags Using Commodity Wi-Fi.....	3029
<i>Haonan Chen, Zengyu Ye, Yutong Liu, Yongguang Li, Linghe Kong, Jiadi Yu, Guihai Chen</i>	
COVID-LPS: Location-Protected Services for COVID-19 Prevention	3035
<i>Yao-Tung Tsou, Jen-Yu Huang</i>	
Efficient Server-Aided Personalized Treatment Recommendation with Privacy Preservation	3041
<i>Dan Zhu, Hui Zhu, Cheng Huang, Rongxing Lu, Xuemin Shen, Dengguo Feng</i>	
Outage Performance Analysis of RIS-Aided D2D Networks for Healthcare Application	3047
<i>Yiyang Ni, Yaxuan Liu, Haitao Zhao, Haotong Cao, Neeraj Kumar, Pulkit Nehra</i>	
A GNN Approach for Cell-Free Massive MIMO.....	3053
<i>Lou Salaün, Hong Yang, Shashwat Mishra, Chung Shue Chen</i>	
Deep Reinforcement Learning for Radio Resource Allocation in NOMA-Based Remote State Estimation.....	3059
<i>Gaoyang Pang, Wanchun Liu, Yonghui Li, Branka Vucetic</i>	
Learning-Based Multi-Objective Resource Allocation for Over-The-Air Federated Learning.....	3065
<i>Xuezhen Tu, Kun Zhu</i>	
Sparsification and Optimization for Energy-Efficient Federated Learning in Wireless Edge Networks	3071
<i>Lei Lei, Yaxiong Yuan, Yang Yang, Yu Luo, Lina Pu, Symeon Chatzinotas</i>	
Optimization of Clustering Strategy and Resource Allocation for Clustered Federated Learning.....	3077
<i>Wenchao Xia, Bo Xu, Haitao Zhao, Yongxu Zhu, Xinghua Sun, Tony Q. S. Quek</i>	

Mining and Predicting Users Clickstream Patterns from Noisy Interleaving Clicks.....	3083
<i>A. Alamoudi, F. Fekri, M. Mohandes, B. Liu</i>	
MirageNet - Towards a GAN-Based Framework for Synthetic Network Traffic Generation.....	3089
<i>Santosh Kumar Nukavarapu, Mohammed Ayyat, Tamer Nadeem</i>	
A Generalized Load Balancing Policy with Multi-Teacher Reinforcement Learning.....	3096
<i>Jikun Kang, Ju Wang, Chengming Hu, Xue Liu, Gregory Dudek</i>	
Machine Learning-Based Approaches Comparison for Netflix/DAZN Streaming and Real Traffic Prediction	3102
<i>E. Reticcioni, G. D. Di Girolamo, C. Di Carlo, F. Smarra, A. D'Innocenzo</i>	
NeCSTGen: An Approach for Realistic Network Traffic Generation Using Deep Learning.....	3108
<i>Fabien Meslet-Millet, Sandrine Mouysset, Emmanuel Chaput</i>	
STAR-RIS Aided Full Duplex Communication System: Performance Analysis.....	3114
<i>Farjam Karim, Sandeep Kumar Singh, Keshav Singh, Mark F. Flanagan</i>	
Stability-Oriented STAR-RIS Aided MISO-NOMA Communication Systems.....	3120
<i>Nannan Zhang, Yuanwei Liu, Xidong Mu, Wei Wang</i>	
Hybrid Active-Passive Reconfigurable Intelligent Surface-Assisted UAV Communications	3126
<i>Nhan T. Nguyen, V.-Dinh Nguyen, Qingqing Wu, Antti Tölli, Symeon Chatzinotas, Markku Juntti</i>	
Power Saving Design of Active Reconfigurable Intelligent Surface—A Sub-Array Architecture	3132
<i>Yanze Zhu, Yang Liu, Ming Li, Qingqing Wu, Qingjiang Shi</i>	
Multi-Hop Beam Routing for Hybrid Active/Passive IRS Aided Wireless Communications.....	3138
<i>Yunpu Zhang, Changsheng You</i>	
Covert Communication Against a Full-Duplex Adversary in Cognitive Radio Networks.....	3144
<i>Jia Yang, Huan Zhou, Rui Chen, Jia Shi, Zan Li</i>	
Outage of Multi-Antenna NOMA-Based Cooperative Underlay Satellite-Terrestrial Networks.....	3150
<i>Lve Han, Wei-Ping Zhu, Min Lin, Chunguo Li</i>	
A High-Precision Frequency Estimation Method for CEI Signals of High-Orbit Satellites.....	3156
<i>Zefu Gao, Yiwen Jiao, Fei Teng, Feilong Mao, Chao Li, Yuxin Wang, Yitong Si, Ruiyi Liu</i>	
Global Navigation Satellite System (GNSS): A Reconfigurable Intelligent Surface (RIS)-Aided Approach	3162
<i>Qichao Zhao, Wenfei Gong, Tianwei Hou, Xin Sun, Eliane Bodanese</i>	
Secure NOMA Based RIS-UAV Networks: Passive Beamforming and Location Optimization.....	3168
<i>Dawei Wang, Yang Zhao, Yi Lou, Linna Pang, Yixin He, Di Zhang</i>	
Modulation Classification for MIMO Systems in the Presence of Non-Gaussian Noise	3174
<i>Mingqian Liu, Yi Wang, Yunfei Chen</i>	
Adaptive Interference Elimination and Regeneration Scheme for Cooperative MIMO System.....	3180
<i>Jingfu Li, Wenjiang Feng, Jiangtian Nie, Gaojie Chen, Zehui Xiong</i>	
TWLBR: Multi-Human Through-Wall Localization and Behavior Recognition Based on MIMO Radar	3186
<i>Dongsheng Zhu, Changlong Wang, Chong Han, Jian Guo, Lijuan Sun</i>	

MIMO Detection Under Hardware Impairments Via Learning from Noisy Labels.....	3192
<i>Jinman Kwon, Yo-Seb Jeon, H. Vincent Poor</i>	
Soft MIMO Detection Using Marginal Posterior Probability Statistics	3198
<i>Jiankun Zhang, Hao Wang, Jing Qian, Zhenxing Gao</i>	
Robust Design for the IRS-Assisted Multicast Communications with Statistical CSI Errors	3205
<i>Bolin Chen, Jiangtian Nie, Weiheng Jiang, Xiaonan Zhang, Zehui Xiong</i>	
Position-Aided On/Off States Judgment for 1-Bit RIS Assisted V2V MmWave Communication.....	3211
<i>Xiao Zheng, Wenchi Cheng, Jiangzhou Wang</i>	
Energy-Efficient Resource Allocation for IRS-Aided MISO System with SWIPT	3217
<i>Jie Tang, Ziyao Peng, Zihao Zhou, Daniel K. C. So, Xiuyin Zhang, Kai-Kit Wong</i>	
Band-ESS: Streaming Enumerative Coding with Applications to Probabilistic Shaping	3223
<i>Yunus Can Gültekin, Frans M. J. Willems, Alex Alvarado</i>	
Focused Sensing in a Wireless Communication System	3229
<i>Xin Tong, Zhaoyang Zhang, Zhaohui Yang</i>	
Upper-Bound Ergodic Capacity Analysis of RIS-Aided Energy-Harvesting Relay Systems	3235
<i>Yuanyun Huang, Yulong Zou</i>	
Multi-Task DRL for Rate Control in RIS-Assisted Multi-Cell Dual-Connectivity HetNets.....	3241
<i>Abdulmalik Alwarafy, Mohamed Abdallah, Naofal Al-Dhahir, Tamer Khattab, Mounir Hamdi</i>	
Uplink Secure Communication Via Intelligent Reflecting Surface and Energy-Harvesting Jammer	3247
<i>Tiantian Qiao, Yang Cao, Jie Tang, Nan Zhao, Kai-Kit Wong</i>	
Joint Localization and Information Transfer for RIS Aided Full-Duplex Systems	3253
<i>Zhichao Shao, Xiaojun Yuan, Wei Zhang, Marco Di Renzo</i>	
Uplink Performance of RIS-Aided Cell-Free Massive MIMO System Over Spatially Correlated Channels	3259
<i>Enyu Shi, Jiayi Zhang, Zhe Wang, Derrick Wing Kwan Ng, Bo Ai</i>	
Resource Allocation and Resolution Control in the Metaverse with Mobile Augmented Reality	3265
<i>Peiyuan Si, Jun Zhao, Huimei Han, Kwok-Yan Lam, Yang Liu</i>	
QoE-Aware Resource Allocation for Semantic Communication Networks.....	3272
<i>Lei Yan, Zhijin Qin, Rui Zhang, Yongzhao Li, Geoffrey Ye Li</i>	
Joint Radio Resource Allocation and Control for Resource-Constrained Vehicle Platooning.....	3278
<i>Dayue Zhang, Nan Cheng, Ruijin Sun, Feng Lyu, Yilong Hui, Changle Li</i>	
Power Allocation for Space-Terrestrial Cooperation Systems with Statistical CSI	3284
<i>Trinh Van Chien, Eva Lagunas, Tiep M. Hoang, Symeon Chatzinotas, Björn Ottersten, Lajos Hanzo</i>	
Iterative Power Control for Wireless Networks with Distributed Reconfigurable Intelligent Surfaces	3290
<i>Jiayu Mao, Aylin Yener</i>	
On Analysis of Asynchronous Grant-Free Access with Rateless Codes	3296
<i>Wei Zhang, Xiaofeng Zhong, Shidong Zhou</i>	

Low Complexity MPA Based on Dynamic Threshold and Stability Judgment for SCMA	3302
<i>Xiaoyan Zhao, Cheng Wang, Songsong Cai, Weidong Wang</i>	
LEO Satellite-Enabled Grant-Free Random Access with MIMO-OTFS	3308
<i>Boxiao Shen, Yongpeng Wu, Wenjun Zhang, Geoffrey Ye Li, Jianping An, Chengwen Xing</i>	
RSMA in Correlated Rician-Faded mMIMO Systems: Investigation with Channel Aging and Phase Shifts.....	3314
<i>Tanu Bharti, Sauradeep Dey, Rohit Budhiraja</i>	
Grant-Free Random Access for Multicell Massive MIMO: Spatiotemporal Modeling with Collision Area	3320
<i>Yanwen Xia, Qi Zhang, Howard H. Yang, Hongbo Zhu</i>	
Hierarchical Reinforcement Learning for RIS-Assisted Energy-Efficient RAN.....	3326
<i>Hao Zhou, Long Kong, Medhat Elsayed, Majid Bavand, Raimundas Gaigalas, Steve Furr, Melike Erol-Kantarci</i>	
Time Vs. Unit Cell Splitting for Autonomous Reconfigurable Intelligent Surfaces	3332
<i>Konstantinos Ntontin, Alexandros-Apostolos A. Boulogeorgos, Zaid Abdullah, Agapi Mesodiakaki, Sergi Abadal, Symeon Chatzinotas</i>	
Energy-Efficient Precoder Design in RIS-Assisted Multiuser MIMO Cognitive Radio Networks.....	3338
<i>Raviteja Allu, Sandeep Kumar Singh, Omid Taghizadeh, Keshav Singh, Chih-Peng Lit</i>	
Robust Energy-Efficient RIS-Aided Multi-Antenna DF Relay Cooperative MIMO	3344
<i>Lulu Song, Shunwai Zhang</i>	
Design of Power-Efficient SWIPT-Enabled RIS-Assisted MIMO Communications	3350
<i>Jetti Yaswanth, Sandeep Kumar Singh, Keshav Singh</i>	
LogTracer: Efficient Anomaly Tracing Combining System Log Detection and Provenance Graph.....	3356
<i>Weina Niu, Zhenqi Yu, Zimu Li, Beibei Li, Runzi Zhang, Xiaosong Zhang</i>	
Early Detection of Campus Network DDoS Attacks Using Predictive Models	3362
<i>Ryusei Araki, Ying-Feng Hsu, Morito Matsuoka</i>	
Scheduling Threats and Their Defenses in Time-Sensitive Networks	3368
<i>Abdullah Alnajim, Chien-Chung Shen</i>	
Feasible Time Delay Attacks Against the Precision Time Protocol.....	3375
<i>Andreas Finkenzeller, Thomas Wakim, Mohammad Hamad, Sebastian Steinhorst</i>	
DISMISS-BSM: An Architecture for Detecting Position Spoofing in Basic Safety Messages.....	3381
<i>Fernando Dutra, Kenniston Bonfim, Carlos Siqueira, Lourenço A Pereira, Aldri Santos, Rodolfo I. Meneguette</i>	
Balanced Twin Auto-Encoder for IoT Intrusion Detection	3387
<i>Phai Vu Dinh, Diep N. Nguyen, Dinh Thai Hoang, Nguyen Quang Uy, Son Pham Bao, Eryk Dutkiewicz</i>	
Honeypot-Based Cyber Deception Against Malicious Reconnaissance Via Hypergame Theory	3393
<i>Ahmed H. Anwar, Mu Zhu, Zeilin Wan, Jin-Hee Cho, Charles A. Kamhoua, Munindar P. Singh</i>	
AMON-SENS: Scalable and Accurate Detection of Volumetric DDoS Attacks at ISPs	3399
<i>Rajat Tandon, Pithayuth Charnsethikul, Michalis Kallitsis, Jelena Mirkovic</i>	

Detecting Slow Port Scans of Long Duration in High-Speed Networks	3405
<i>Hua Wu, Ziling Shao, Guang Cheng, Xiaoyan Hu, Jing Ren, Wei Wang</i>	
Learning-Based Detection of Malicious Hosts by Analyzing Non-Existent DNS Responses.....	3411
<i>Jawad Ahmed, Hassan Habibi Gharakheili, Vijay Sivaraman</i>	
Multi-Service Single Tenant 5G Fronthaul Resource Orchestration Framework Based on Network Slicing.....	3417
<i>Massimiliano Maule, John S. Vardakas, Georgios Kormentzas, Christos Verikoukis</i>	
Admission Control and End-To-End Slicing for Video Streaming in MEC-Empowered Cellular Networks	3423
<i>Dionysis Xenakis, Anastasia Tsiota, Nikos Passas</i>	
Scalable End-To-End Slice Embedding and Reconfiguration Based on Independent DQN Agents.....	3429
<i>Pavlos Doanis, Theodoros Giannakas, Thrasyvoulos Spyropoulos</i>	
SafeSCHEMA: Multi-Domain Orchestration of Slices Based on SafeRL for B5G Networks.....	3435
<i>Anestis Dalgkitsis, Ashima Chawla, Anne-Marie Bosneag, Christos Verikoukis</i>	
Availability and Latency Aware Deployment of Cloud Native Edge Slices	3441
<i>Sagar Arora, Adlen Ksentini, Christian Bonnet</i>	
An Unsupervised Learning Approach for Spectrum Allocation in Terahertz Communication Systems.....	3447
<i>Akram Shafie, Chunhui Li, Nan Yang, Xiangyun Zhou, Trung Q. Duong</i>	
Incentive Mechanism Design for Federated Learning in Multi-Access Edge Computing	3454
<i>Jingyuan Liu, Zheng Chang, Geyong Min, Zhu Han</i>	
Accurate Spectrum Map Construction Using an Intelligent Frequency-Spatial Reasoning Approach.....	3460
<i>Chenyue Wang, Yuhang Wu, Fuhui Zhou, Qihui Wu, Chao Dong, Kai-Kit Wong</i>	
Federated Dynamic Spectrum Access Through Multi-Agent Deep Reinforcement Learning	3466
<i>Yifei Song, Hao-Hsuan Chang, Lingjia Liu</i>	
Spectrum Prediction for Satellite Based Spectrum-Sensing Systems Using Deep Learning.....	3472
<i>Xiaojin Ding, Qiulin Lv, Yulong Zou, Gengxin Zhang</i>	
Analysis of Low-Density Parity-Check Codes Over Finite Integer Rings for the Lee Channel.....	3478
<i>Jessica Bariffi, Hannes Bartz, Gianluigi Liva, Joachim Rosenthal</i>	
A Variable Node Design with Check Node Aware Quantization Leveraging 2-Bit LDPC Decoding.....	3484
<i>Philipp Mohr, Gerhard Bauch</i>	
Mutual Information-Maximizing Quantized Layered Min-Sum Decoding of QC-LDPC Codes.....	3490
<i>Cheng Lv, Xuan He, Peng Kang, Kui Cai, Jiongyue Xing, Xiaohu Tang</i>	
Uniform Vs. Non-Uniform Coarse Quantization in Mutual Information Maximizing LDPC Decoding	3496
<i>Philipp Mohr, Gerhard Bauch</i>	
GRAND for Fading Channels Using Pseudo-Soft Information	3502
<i>Hadi Sameddeen, Muriel Médard, Ken. R. Duffy</i>	
Energy-Efficient Secure Data Collection and Transmission Via UAV	3508
<i>Xinying Chen, Zheng Chang, Nan Zhao, Timo Hämmäläinen, Xianbin Wang</i>	

UAV Trajectory Optimization for Time-Constrained Data Collection in UAV Monitoring Systems	3514
<i>Kai Liu, Jun Zheng</i>	
A Learning-Based Honeypot Game for Collaborative Defense in UAV Networks	3521
<i>Yuntao Wang, Zhou Su, Abderrahim Benslimane, Qichao Xu, Minghui Dai, Ruidong Li</i>	
MixRide: An Energy-Aware Location Privacy Protection Mechanism for the Internet of Drones.....	3527
<i>Alisson R. Svaigen, Azzedine Boukerche, Linnyer B. Ruiz, Antonio A. F. Loureiro</i>	
LidNet: Boosting Perception and Motion Prediction from a Sequence of LIDAR Point Clouds for Autonomous Driving	3533
<i>Yasser H. Khalil, Hussein T. Mouftah</i>	
TLS Early Data Resistance to Replay Attacks in Wireless Internet of Things.....	3539
<i>Sung Yong Kim, Danylo Goncharkyyi, Pengwenlong Gu, Ahmed Serhrouchni, Rida Khatoun, Farid Nait-Abdesselam, Jean-Jacques Grund</i>	
LCCDE: A Decision-Based Ensemble Framework for Intrusion Detection in the Internet of Vehicles.....	3545
<i>Li Yang, Abdallah Shami, Gary Stevens, Stephen De Rusett</i>	
Prior Knowledge Based Advanced Persistent Threats Detection for IoT in a Realistic Benchmark.....	3551
<i>Yu Shen, Murat Simsek, Burak Kantarci, Hussein T. Mouftah, Mehran Bagheri, Petar Djukic</i>	
Contrastive GNN-Based Traffic Anomaly Analysis Against Imbalanced Dataset in IoT-Based ITS.....	3557
<i>Yang Wang, Xi Lin, Jun Wu, Ali Kashif Bashir, Wu Yang, Jianhua Li, Muhammad Imran</i>	
LASUA: A Lightweight Authentication Scheme with User Anonymity for IoT-Enabled Mobile Cloud.....	3563
<i>Vincent Amande, Kuljeet Kaur, Sahil Garg, Mohsen Guizani</i>	
Environment-Driven Task Allocation in Heterogeneous Spatial Crowdsourcing	3569
<i>Xuan Zhang, Helei Cui, Zhiwen Yu, Bin Guo</i>	
Multi-Platform Cooperation Based Incentive Mechanism in Opportunistic Mobile Crowdsensing	3575
<i>Guoliang Ji, Baoxian Zhang, Zheng Yao, Cheng Li</i>	
Over-The-Air Collaborative Learning in Joint Decision Making.....	3581
<i>Carlos Feres, Bernard C. Levy, Zhi Ding</i>	
Stochastic Evaluation of Indoor Wireless Network Performance with Data-Driven Propagation Models.....	3587
<i>Stefanos Bakirtzis, Ian Wassell, Marco Fiore, Jie Zhang</i>	
Fairness-Aware Soft Frequency Reuse for Multi-Cell OFDMA Networks with Statistical CSI.....	3593
<i>Yang Ming, Ziyuan Sha, Shuang Jin, Yuhan Dong</i>	
On the Feasibility of URLLC for 5G-NR V2X Sidelink Communication at 5.9 GHz.....	3599
<i>Jin Yan, Jérôme Härri</i>	
The Moment Passing Method for Wireless Channel Capacity Estimation.....	3605
<i>Han Hao, Dandan Jiang, Lu Yang, Hao Wu, Bo Bai</i>	
Joint Beamforming and Scheduling for Integrated Sensing and Communication Systems in URLLC.....	3611
<i>Xiaoyu Zhao, Ying-Jun Angela Zhang</i>	

Requirements of Settlement-Free Peering Policies	3617
<i>Ali Nikkhah, Scott Jordan</i>	
Constructing a DRL Decision Making Scheme for Multi-Path Routing in All-IP Access Network.....	3623
<i>Jiaqi Tang, Andrej Mihailovic, Hamid Aghvami</i>	
A NTRU-Based Access Authentication Scheme for Satellite Terrestrial Integrated Network.....	3629
<i>Shanshan Wang, Guofeng Zhao, Chuan Xu, Zhenzhen Han, Shui Yu</i>	
Deep RL-Based Abnormal Behavior Detection and Prevention in Network Video Surveillance.....	3635
<i>Abhishek Djeachandrane, Said Hoceini, Serge Delmas, Jean-Michel Duquerois, Alain Dubois, Abdelhamid Mellouk</i>	
Seamless Replacement of UAV-BSs Providing Connectivity to the IoT	3641
<i>Hamed Hellaoui, Bin Yang, Tarik Taleb, Jukka Manner</i>	
Reinforcement Learning-Based Network Slice Resource Allocation for Federated Learning Applications.....	3647
<i>Zhouxiang Wu, Genya Ishigaki, Riti Gour, Congzhou Li, Jason P. Jue</i>	
Action Elimination-Assisted Deep Reinforcement Learning for 5G Cell Selection and Network Slicing.....	3653
<i>Sunwoo Kim, Seungnyun Kim, Kyungjoo Suh, Byonghyo Shim</i>	
Optimized Sparrow Search-Based Multiplexing of eMBB and URLLC in 5G/5G Networks.....	3658
<i>Mengqiu Tian, Changle Li, Yilong Hui, Nan Cheng, Maofeng Luo</i>	
Socially-Aware Concurrent Entanglement Routing with Path Decomposition in Quantum Networks.....	3664
<i>Shao-Min Huang, Ming-Huang Chien, Cheng-Yang Cheng, Jian-Jih Kuo, Li-Hsing Yang</i>	
Agile Design and Dimensioning of MEC-NFV Infrastructure to Support Heterogeneous Service Chains.....	3670
<i>Lina A. Haibeh, Mustapha C. E. Yagoub, Abdallah Jarray</i>	
Joint Routing, Channel, and Key-Rate Assignment for Resource-Efficient QKD Networking	3676
<i>Qiaolun Zhang, Omran Ayoub, Alberto Gatto, Jun Wu, Xi Lin, Francesco Musumeci, Giacomo Verticale, Massimo Tornatore</i>	
Experimental Evaluation of a Symmetry-Free Parallel Algorithm for Spectrum Allocation	3682
<i>George N. Rouskas, Shubham Gupta, Priya Sharma</i>	
Parameterized First Fit (PFF): Eliminating Symmetry in Spectrum Allocation.....	3688
<i>George N. Rouskas, Priya Sharma, Shubham Gupta</i>	
DeepDefrag: A Deep Reinforcement Learning Framework for Spectrum Defragmentation	3694
<i>Ehsan Etezadi, Carlos Natalino, Renzo Diaz, Anders Lindgren, Stefan Melin, Lena Wosinska, Paolo Monti, Marija Furdek</i>	
Minimizing Cost of Hierarchical OTN Traffic Grooming Boards in Mesh Networks.....	3700
<i>Aryanaz Attarpour, Memedhe Ibrahimi, Francesco Musumeci, Andrea Castoldi, Mario Ragni, Massimo Tornatore</i>	
UAV Communications in Integrated Terrestrial and Non-Terrestrial Networks.....	3706
<i>Mohamed Benzaghta, Giovanni Geraci, Rasoul Nikbakht, David López-Pérez</i>	
Unity Makes Strength: Coalition Formation-Based Group-Buying for Timely UAV Data Collection.....	3712
<i>Nan Qi, Yeting Huang, Wen Sun, Shi Jin, Theodoros A. Tsiftsis, Qihui Wu, Xiang Su</i>	

Coordinated UAVs for Effective Payload Delivery	3718
<i>Rodolfo Vera-Amaro, Madison Burke, Walid Saad</i>	
Handover Game for Data Transportation Over Dynamic UAV Networks with Predictable Channels	3724
<i>Bowen Li, Junting Chen</i>	
Throughput Maximization for Multi-Cluster NOMA-UAV Networks	3730
<i>Qiulei Huang, Wei Wang, Weidang Lu, Nan Zhao, Arumugam Nallanathan, Xianbin Wang</i>	
Design and Implementation of a Raft Based Wireless Consensus System for Autonomous Driving	3736
<i>Zongyao Li, Lei Zhang, Xiaoshuai Zhang, Muhammad Imran</i>	
Lifelong Autonomous Botnet Detection.....	3742
<i>Alex Medeiros De Araújo, Anderson Bergamini De Neira, Michele Nogueira</i>	
Integration of Blockchain and Mobile Crowdsensing by Trust-Preserving Mechanism.....	3748
<i>Long Zhang, Shuang Qin, Gang Feng, Xiaoqian Li, Yao Sun</i>	
Exploiting Intra- And Inter-Region Relations for Sales Prediction Via Graph Convolutional Network.....	3754
<i>Yaochang Liu, Baoshen Guo, Xining Song, Shuai Wang, Tian He</i>	
Predicting the Urban Water Demand Based on Transfer Learning Method with Multi-Head Attention.....	3760
<i>Zhuo Chen, Chuhan Deng, Fei Che, Yan Li</i>	
KVLB: An In-Network Key-Value Load Balancer Using Multi-Valued Hash.....	3766
<i>Xikun Zheng, Zhengyan Zhou, Jingwen Lv, Dong Zhang, Chunming Wu</i>	
ECC-Aided RAID for Reliability Improvement of SSD	3772
<i>Kangseok Lee, Geunyeong Yu, Youngjun Hwang, Bohwan Jun, Hongrak Son, Yong Ho Song</i>	
A Framework for Storage-Accuracy Optimization of IoT Forensic Analysis	3779
<i>Fabio Palmese, Alessandro E. C. Redondi</i>	
Divertible Searchable Symmetric Encryption for Secure Cloud Storage	3785
<i>Xi Zhang, Cheng Huang, Ye Su, Jing Qin, Xuemin Shen</i>	
Forward Private Multi-Client Searchable Encryption with Efficient Access Control in Cloud Storage.....	3791
<i>Jinjiang Yang, Feng Liu, Xinyi Luo, Jianan Hong, Jian Li, Kaiping Xue</i>	
60 GHz mmWave Full-Duplex Transceiver Study and Over-The-Air Link Verification	3797
<i>Min Soo Sim, Shubham Ahuja, Wooseok Nam, Alexander Dorosenco, Zhifei Fan, Tao Luo</i>	
Realizing High Power Millimeter Wave Full Duplex: Practical Design, Prototype and Results	3803
<i>Bin Yu, Chen Qian, Juho Lee, Shihai Shao, Ying Shen, Wensheng Pan, Peng Lin, Zhiya Zhang, Jungsoo Jung, Sunghyun Choi, Chengjun Sun, Su Hu</i>	
Dynamic RF Beam Codebook Reduction for Cost-Efficient mmWave Full-Duplex Systems	3809
<i>Gee Yong Suk, Jongwoo Kwak, Jaeyoung Choi, Chan-Byoung Chae</i>	
Energy Efficiency and Power Allocation Optimization in Hardware-Impaired Full-Duplex Access Point	3815
<i>Emad Saleh, Malek Alsmadi, Salama Ikki</i>	

Transceiver Co-Design for Full-Duplex Integrated Sensing and Communications	3821
<i>Jiawei Liu, Kumar Vijay Mishra, Mohammad Saquib</i>	
A Reinforcement Learning Approach for Energy Efficient Beamforming in NOMA Systems	3827
<i>Yuqin Liu, Ruikang Zhong, Mona Jaber</i>	
Flexible Unsupervised Learning for Massive MIMO Subarray Hybrid Beamforming	3833
<i>Hamed Hojatian, Jérémy Nadal, Jean-François Frigon, François Leduc-Primeau</i>	
Deep Reinforcement Learning Approach for UAV-Assisted Mobile Edge Computing Networks	3839
<i>Sangwon Hwang, Juseong Park, Hoon Lee, Mintae Kim, Inkyu Lee</i>	
DRL-Based Distributed Resource Allocation for Edge Computing in Cell-Free Massive MIMO Network	3845
<i>Fitsum Debebe Tilahun, Ameha Tsegaye Abebe, Chung G. Kang</i>	
Intelligent Admission Control in 6G Networks for Resource-Efficient Reliable Connectivity	3851
<i>Priyanka Pathak, Susanna Schwarzmann, Riccardo Trivisonno, Marius Pesavento</i>	
Analysis of Wi-Fi Probe Requests Towards Information Element Fingerprinting	3857
<i>Lucia Pintor, Luigi Atzori</i>	
Reinforcement Learning Assisted Routing for Time Sensitive Networks	3863
<i>Nurefsan Sertbas Bülbül, Mathias Fischer</i>	
A Novel Aggregation Method to Promote Safety Security for Poisoning Attacks in Federated Learning	3869
<i>Pedro H. Barros, Heitor S. Ramos</i>	
Communication-Efficient and Privacy-Preserving Feature-Based Federated Transfer Learning	3875
<i>Feng Wang, M. Cenk Gursoy, Senem Velipasalar</i>	
Communication-Efficient Secure Aggregation for Federated Learning	3881
<i>Irem Ergün, Hasin Us Sami, Basak Güler</i>	
Channel Estimation for RIS-Aided mmWave MIMO System from 1-Sparse Recovery Perspective	3887
<i>Zhendong Peng, Gui Zhou, Cunhua Pan, Hong Ren</i>	
Near-Field Channel Estimation for RIS-Assisted Wideband Terahertz Systems	3893
<i>Jiao Wu, Seungnyun Kim, Byonghyo Shim</i>	
Beampattern Design for RIS-Aided Dual-Functional Radar and Communication Systems	3899
<i>Guangyang Zhang, Chao Shen, Fan Liu, Yichuan Lin, Zhangdui Zhong</i>	
Localization in the Near Field of a RIS-Assisted mmWave/SubTHz System	3905
<i>Yijin Pan, Cunhua Pan, Shi Jin, Jiangzhou Wang</i>	
IRS Phase-Shift Feedback Overhead-Aware Model Based on Rank-One Tensor Approximation	3911
<i>Bruno Sokal, Paulo R. B. Gomes, André L. F. De Almeida, Behrooz Makki, Gabor Fodor</i>	
Satellite Relay Task Scheduling Based on Dynamic Antenna Setup Time and Splittable Task	3917
<i>Hongyang Liu, Ying Wang, Peng Yu, Yining Feng, Wenjing Li, Xuesong Qiu</i>	
Adaptive and Cooperative Resource Scheduling for Satellite-Terrestrial Networks	3923
<i>Yixin Wang, Di Zhou, Min Sheng, Jiandong Li</i>	

A New Batch Access Scheme with Global QoS Optimization for Satellite-Terrestrial Networks.....	3929
<i>Xiangjun Li, Qimei Cui, Qiulin Xue, Wei Ni, Jing Guo, Xiaofeng Tao</i>	
Efficient Seamless Coverage of High Throughput Satellites with Irregular Coverage Shapes	3935
<i>Jinlong Hu, Menghua Cao, Yiqing Zhou, Zifan Liu</i>	
Computation Offloading and Energy Harvesting Schemes for Sum Rate Maximization in Space-Air-Ground Networks.....	3941
<i>Yongkang Gong, Haipeng Yao, Zehui Xiong, Song Guo, F. Richard Yu, Dusit Niyato</i>	
Deep Learning for Hierarchical Beam Alignment in mmWave Communication Systems	3947
<i>Junyi Yang, Weifeng Zhu, Meixia Tao</i>	
Robust Semantic Transmission of Images with Generative Adversarial Networks	3953
<i>Qi He, Haohan Yuan, Daquan Feng, Bo Che, Zhi Chen, Xiang-Gen Xia</i>	
Perceptual Learned Source-Channel Coding for High-Fidelity Image Semantic Transmission.....	3959
<i>Jun Wang, Sixian Wang, Jincheng Dai, Zhongwei Si, Dekun Zhou, Kai Niu</i>	
SemAudio: Semantic-Aware Streaming Communications for Real-Time Audio Transmission.....	3965
<i>Hao Wei, Wenjun Xu, Fengyu Wang, Xin Du, Tiankui Zhang, Ping Zhang</i>	
A Unified Multi-Task Semantic Communication System with Domain Adaptation.....	3971
<i>Guangyi Zhang, Qiyu Hu, Zhijin Qin, Yunlong Cai, Guanding Yu</i>	
Power-Domain-Multiplexed Precoded Faster-Than-Nyquist Signaling for NOMA Downlink	3977
<i>Prakash Chaki, Shinya Sugiura</i>	
Flexcatter: Low-Power Signal Emulation for Software-Defined Backscatter Modulation	3983
<i>Yuxiang Peng, Yu Zhang, Shiyue He, Lixia Xiao, Tao Jiang</i>	
Dynamic Spectrum Access in Non-Stationary Environments: A Thompson Sampling Based Method	3989
<i>Shuai Ye, Tianyu Wang, Shaowei Wang</i>	
A Distributed Relative Localization Scheme Based on Geometry Merging Priority	3995
<i>Lingwei Xu, Xiao Shen, Li Wang, Yuan Shen</i>	
Personalized QoE Enhancement for Adaptive Video Streaming: A Digital Twin-Assisted Scheme.....	4001
<i>Xinyu Huang, Conghao Zhou, Wen Wu, Mushu Li, Huaqing Wu, Xuemin Shen</i>	
Statistical CSI Based Phase-Shift and Transmit Power Optimization for RIS-Aided Massive MIMO.....	4007
<i>Dulaj Gunasinghe, Gayan Amarasuriya</i>	
Signal Classification with Linear Phase Modulation for RIS-Assisted Near-Field Localization	4013
<i>Jeongwan Kang, Seung-Woo Ko, Sunwoo Kim</i>	
Optimal Friendly Jamming and Transmit Power Allocation in RIS-Assisted Secure Communication.....	4020
<i>Burhan Wafai, Chinmoy Kundu, Ankit Dubey, Mark F. Flanagan</i>	
Efficient Phase Control Determination by Codebook Without CSI for Standalone IRS Realization.....	4026
<i>Ryuhei Hibi, Yuichi Kawamoto, Nei Kato</i>	
Best IRS Selection Versus Distributed IRS with Phase-Shift Errors.....	4032
<i>Dulaj Gunasinghe, Gayan Amarasuriya</i>	

A Cryptographic Perspective to Achieve Practical Physical Layer Security.....	4038
<i>Marcus De Ree, Georgios Mantas, Jonathan Rodriguez</i>	
Implementation of Physical Layer Security into 5G NR Systems and E2E Latency Assessment.....	4044
<i>Luis Torres-Figueroa, Markus Hörmann, Moritz Wiese, Ullrich J. Mönich, Holger Boche, Oliver Holschke, Marc Geitz</i>	
Acoustic Eavesdropping from Passive Vibrations Via mmWave Signals.....	4051
<i>Wei-Han Chen, Kannan Srinivasan</i>	
Filterbank Secret Key Generation Rates in Multipath Channels.....	4057
<i>Miroslav Mitev, André N. Barreto, Thuy M. Pham, Maximilian Matthé, Gerhard Fettweis</i>	
Joint Low-Rank Factor and Sparsity for Detecting Access Jamming in Massive MTC Networks	4063
<i>Shao-Di Wang, Hui-Ming Wang, Chen Feng, Victor C. M. Leung</i>	
MAC Scheduling in Joint Communications and Sensing Networks Based on Virtual Queues.....	4069
<i>Husheng Li</i>	
MIMO Integrated Sensing and Communication with Extended Target: CRB-Rate Tradeoff.....	4075
<i>Haocheng Hua, Xianxin Song, Yuan Fang, Tony Xiao Han, Jie Xu</i>	
Power Allocation for Joint Communication and Sensing in Cell-Free Massive MIMO	4081
<i>Zinat Behdad, Özlem Tugife Demir, Ki Won Sung, Emil Björnson, Cicek Cavdar</i>	
A Joint Sensing and Communication Framework in Resource Constrained Mobile Edge Networks	4087
<i>Xiaoqian Li, Gang Feng, Tingting Liu, Yao Sun, Shuang Qin, Yijing Liu</i>	
Guard Beam: Protecting mmWave Communication Through In-Band Early Blockage Prediction.....	4093
<i>Rizqi Hersyandika, Yang Miao, Sofie Pollin</i>	
DPM-NFV: Dynamic Power Management Framework for 5G User Plane Function Using Bayesian Optimization.....	4099
<i>Jaroslav Sydir, Bin Li, Pietro Mercati, Charlie Tai, Ravi Iyer, Michael Kishinevsky, Boris Serafimov</i>	
Energy Focusing for Wireless Power Transfer in the Near-Field Region	4106
<i>Eleni Demarchou, Constantinos Psomas, Ioannis Krikidis</i>	
Modulation Design and Optimization for Multiplicative Multiple Access Channel in Symbiotic Radios.....	4111
<i>Hu Zhou, Qianqian Zhang, Ruizhe Long, Ying-Chang Liang</i>	
Throughput-Constrained Energy Efficiency Optimization for CSMA Networks	4117
<i>Yanbo Pang, Wen Zhan, Xinghua Sun, Zhiyong Luo, Yue Zhang</i>	
Heterogeneity-Aware P2P Wireless Energy Transfer for Balanced Energy Distribution	4123
<i>Tamoghna Ojha, Theofanis P. Raptis, Marco Conti, Andrea Passarella</i>	
Assessing the Presence of Intentional Waveform Structure in Preamble-Based SEI.....	4129
<i>Joshua H. Tyler, Mohamed K. M. Fadul, Donald R. Reising, Yu Liang</i>	
Implicit Channel Coordination to Tackle Starvation Attacks in 5G and Wi-Fi Coexistence Systems	4136
<i>Siddharth Dongre, Hanif Rahbari</i>	
Impacts of Clock Jitter on Cooperative Jamming Cancellation.....	4142
<i>Wenbo Guo, Haotian Hu, Yimin He, Mu Yan, Hongzhi Zhao, Shihai Shao</i>	

Artificial Noise Assisted Interference Alignment for Physical Layer Security Enhancement	4148
<i>Lin Hu, Junxiang Peng, Yan Zhang, Hong Wen, Shuai Tan, Jiabing Fan</i>	
SDN Traffic Anomaly Detection Method Based on Convolutional Autoencoder and Federated Learning	4154
<i>Zixuan Wang, Pan Wang, Zhixin Sun</i>	
Attack Detection and Mitigation Using Intelligent Data Planes in SDNs	4161
<i>Aparna Ganesan, Kamil Sarac</i>	
TableGuard: A Novel Security Mechanism Against Flow Table Overflow Attacks in SDN.....	4167
<i>Dezhang Kong, Chunming Wu, Yi Shen, Xiang Chen, Hongyan Liu, Dong Zhang</i>	
A Cost-Effective MTD Approach for DDoS Attacks in Software-Defined Networks.....	4173
<i>Amir Javadpour, Forough Ja'Fari, Tarik Taleb, Mohammad Shojaifar</i>	
Autoscaling Cracker: An Efficient Asymmetric DDoS Attack on Serverless Functions	4179
<i>Dengzhe Wang, Xingshu Chen, Qixu Wang, Shengkai Wang, Feiyu Xu, Tao Zheng</i>	
Can Recommenders Compensate for Low QoS?	4185
<i>Mateus Nogueira, Carlos Bravo, Daniel Menasché, Thrasyvoulos Spyropoulos, Pavlos Sermpezis</i>	
Effective Velocity Calculation Method in Passive Synthetic Aperture for Emitter Localization.....	4191
<i>Liting Zhang, Hao Huan, Ran Tao, Yue Wang, Xiaogang Tang, Hai Lin</i>	
Impact of Users' Mobility on the Quality of Edge Sensing Systems.....	4196
<i>Omar Naserallah, Sherif B. Azmy, Nizar Zorba, Hossam S. Hassanein</i>	
Robust Spatial-Temporal Graph-Tensor Recovery for Network Latency Estimation.....	4202
<i>Huiyu Lin, Lei Deng, Lingzhen Wang, Haifeng Zheng, Xinxin Feng</i>	
Interplay Between Distributed AI Workflow and URLLC.....	4208
<i>Milad Ganjalizadeh, Hossein S. Ghadikolaei, Johan Haraldson, Marina Petrova</i>	
Computation Rate Optimization for STAR-RIS-Enhanced Wireless-Powered MEC	4214
<i>Xintong Qin, Yuanyuan Hao, Zhengyu Song, Tianwei Hou, Xin Sun</i>	
Deep-Learning-Based Channel Estimation for IRS-Assisted ISAC System	4220
<i>Yu Liu, Ibrahim Al-Nahhal, Octavia A. Dobre, Fanggang Wang</i>	
Deep Learning Enabled Channel Estimation for RIS-Aided Wireless Systems.....	4226
<i>Wenhan Shen, Zhijin Qin, Arumugam Nallanathan</i>	
DRL-Based Energy Efficient Resource Allocation for STAR-RIS Assisted Coordinated Multi-Cell Networks	4232
<i>Jian Chen, Ziye Ma, Yixuan Zou, Jie Jia, Xingwei Wang</i>	
SCISRS: Signal Cancellation Using Intelligent Surfaces for Radio Astronomy Services	4238
<i>Zhibin Zou, Xue Wei, Dola Saha, Aweek Dutta, Gregory Hellbourg</i>	
A Genetic Algorithm-Based Construction of Fractional Repetition Codes.....	4244
<i>Zhihang Deng, Bing Zhu, Xianzhi Du, Kenneth W. Shum</i>	
Delayed Coding Scheme for Channels with Insertion, Deletion, and Substitution Errors	4250
<i>Ryo Shibata, Hiroyuki Yashima</i>	

CRC-Aided Short Convolutional Codes and RCU Bounds for Orthogonal Signaling	4256
<i>Jacob King, William Ryan, Richard D. Wesel</i>	
Shaped TCM with List Decoding that Exceeds the RCU Bound by Optimizing a Union Bound on FER.....	4262
<i>Dan Song, Felipe Areces, Linfang Wang, Richard Wesel</i>	
A Finite Blocklength Coding Scheme for the Dirty-Tape Channel with Noisy Feedback	4268
<i>Dengfeng Xia, Chuanchuan Yang, Bin Dai</i>	
Signal Recovery for Incomplete Ocean Data Via Graph Signal Processing	4274
<i>Zefeng Qi, Xuewen Liao, Ang Li, Chunlei Zheng</i>	
BlueTiSCH: A Multi-PHY Simulation of Low-Power 6TiSCH IoT Networks	4280
<i>Chloe Bae, Shiwen Yang, Michael Baddeley, Atis Elsts, Israat Haque</i>	
Room-By-Room Device Grouping for Put-And-Play IoT System.....	4286
<i>Shigemi Ishida, Tomoki Murakami, Shinya Otsuki</i>	
Demonstration of Real-Time Jitter Buffered Architecture for Motion Control in All-Photonics Network.....	4292
<i>Yushi Koyasako, Tomoya Hatano, Takashi Yamada, Tatsuya Shimada, Tomoaki Yoshida</i>	
Energy Saving on Constrained 12-Leads Real-Time ECG Monitoring	4298
<i>Hebatalla Ouda, Abeer Badawi, Hossam S. Hassanein, Khalid Elgazzar</i>	
Reducing Security Overhead in the Context of Connected Vehicles	4304
<i>Ramzi Boutahala, Marwane Ayaida, Hacène Fouchal</i>	
GVIDS: A Reliable Vehicle Intrusion Detection System Based on Generative Adversarial Network	4310
<i>Yilin Zhao, Yijie Xun, Jiajia Liu, Siyu Ma</i>	
Toward Secure and Private Federated Learning for IoT Using Blockchain.....	4316
<i>Hajar Moudoud, Soumaya Cherkaoui</i>	
Energy Level Spoofing Attacks and Countermeasures in Blockchain-Enabled IoT	4322
<i>Ali Hussain Khan, Humza Ikram, Chuadhry Mujeeb Ahmed, Naveed Ul Hassan, Zartash Afzal Uzmi</i>	
Collusion-Resistant PUF-Based Distributed Device Authentication Protocol for Internet of Things.....	4328
<i>Wassila Lalouani, Mohamed Younis, Mohammad Ebrahimabadi, Naghmeh Karimi</i>	
Using the (Crystal) Ball: Forecasting Network Traffic Peaks with Football Events.....	4334
<i>Andrea Pimpinella, Alessandro E. C. Redondi, Andrea Pavon, Luisa Venturini</i>	
Contextual Budget-Limited Online Incentives for Lipschitz Sensing Tasks.....	4340
<i>Jiajun Sun</i>	
Optimal Targeted Advertising Strategy for Secure Wireless Edge Metaverse.....	4346
<i>Hongyang Du, Dusit Niyato, Chunyan Miao, Jiawen Kang, Dong In Kim</i>	
Privacy-Preserving Truth Discovery with Outlier Detection in Mobile Crowdsensing Systems	4352
<i>Jingchen Zhao, Bin Zhu, Jian Li, Shaoxian Yuan, Kaiping Xue, Xianchao Zhang</i>	
Cooperative Data Sensing, Communication and Computation in Resource Constrained Mobile Crowdsensing	4358
<i>Xiaoqian Li, Gang Feng, Yijing Liu, Long Zhang, Shuang Qin</i>	

IRS-Aided Secure MISO-NOMA Networks Towards Internal and External Eavesdropping.....	4364
<i>Hui Han, Yang Cao, Min Sheng, Junyu Liu, Nan Zhao, Dusit Niyato</i>	
Pairwise Gaussian Graph Convolutional Networks: Defense Against Graph Adversarial Attack	4371
<i>Guangxi Lu, Zuobin Xiong, Jing Meng, Wei Li</i>	
Stochastic Resource Allocation in Quantum Key Distribution for Secure Federated Learning	4377
<i>Minrui Xu, Wei Chong Ng, Dusit Niyato, Han Yu, Chunyan Miao, Dong In Kim, Xuemin Sherman Shen</i>	
Blockchain-Enabled Secure Distributed Data Aggregation and Verification Mechanism for IIoT	4383
<i>Rong Ma, Tao Feng, Qi Li, Jinbo Xiong</i>	
Secure Computation Offloading Via Cooperative Jamming in Marine IoT Networks.....	4389
<i>Li Ping Qian, Mingqing Li, Xinyu Dong, Yuan Wu, Xiaoni Yang</i>	
A Multi-Objective Model for Misbehavior Detection in IoV.....	4395
<i>Jiaqi Huang, Jiahuan Lv, Zhiguo Zhou, Sohan Gyawali, Yi Qian</i>	
Accelerate State Sharing of Network Function with RDMA	4401
<i>Chenming Chang, Wei Yang, Chao Zheng, Ping Jiang, Liang Zhan, Qingyun Liu</i>	
Power-Efficient and Distance-Adaptive Disaster Protection for Service Function Chain Provisioning.....	4407
<i>Yuanhao Liu, Fen Zhou, Tao Shang, Juan-Manuel Torres-Moreno</i>	
Proactive and Reactive Decision Based Agent Placement: Reliability and Latency Perspective.....	4413
<i>Sisay Tadesse Arzo, Mona Esmaeili, Yonatan Melese Worku, Zeinab Akhavan, Michael Devetsikiotis, Payman Zarkesh-Ha</i>	
High-Performance and Low-Cost VPP Gateway for Virtual Cloud Networks	4419
<i>Siyu Han, Shuo Wang, Yudong Huang, Tao Huang, Yunjie Liu</i>	
Task Offloading with 5G Network Slicing for V2X Communications	4425
<i>George Alkhoury, Sara Berri, Arsenia Chorti</i>	
Cost-Effective and Deployment-Friendly L4 Load Balancers Based on Programmable Switches	4431
<i>Dong Zhou, Shuo Wang, Tao Huang</i>	
Efficient Edge Server Placement Under Latency and Load Balancing Constraints for Vehicular Networks	4437
<i>Sabri Khamari, Toufik Ahmed, Mohamed Mosbah</i>	
Using Programmable P4 Switches to Reduce Communication Costs of Parallel and Distributed Simulations.....	4443
<i>Shie-Yuan Wang, Nai-En Kuo</i>	
A Flexible Numerology Configuration for Efficient Resource Allocation in 3GPP V2X 5G New Radio	4449
<i>Thanh-Son-Lam Nguyen, Sondes Kallel, Nadjib Aitsaadi, Cedric Adjih, Ilhem Fajjari</i>	
Revisiting Loss Detection in NDN: Detecting Spurious Timeout Using Probe Interest	4455
<i>Kazuaki Ueda, Takahiko Kato, Chikara Sasaki, Atsushi Tagami</i>	
A2G Channel Measurement and Characterization Via TNN for UAV Multi-Scenario Communications.....	4461
<i>Kai Mao, Qiuming Zhu, Fuqiao Duan, Yanheng Qiu, Maozhong Song, Wei Fan, Yang Miao</i>	

Beyond Conic Section Mainlobe Coverage for Unmanned Aerial Vehicle	4467
<i>Yi Geng, Sebastian Euler</i>	
Impact of UAV 3D Wobbles on the Non-Stationary Air-To-Ground Channels at Sub-6 GHz Bands.....	4473
<i>Xiaobo Yang, Daosen Zhai, Ruonan Zhang, Haotong Cao, Sahil Garg, Georges Kaddoum</i>	
Performance Analysis of Double-Scattered Double-Shadowed Channel Model for UAV-To-Ground Systems	4479
<i>Caslav Stefanovic, Ana Garcia Armada</i>	
Throughput Analysis of RIS-Assisted UAV Wireless Systems Under Disorientation and Misalignment.....	4485
<i>Alexandros-Apostolos A. Boulogeorgos, Angeliki Alexiou, Marco Di Renzo</i>	
Task Offloading and Resource Allocation in CPU-GPU Heterogeneous Networks	4492
<i>Chenyu Gong, Mulei Ma, Liantao Wu, Wenxiang Liu, Yong Zhou, Yang Yang</i>	
Near-Optimal Cloud-Network Integrated Resource Allocation for Latency-Sensitive B5G.....	4498
<i>Masoud Shokrnezhad, Tarik Taleb</i>	
Reducing Average Job Completion Time for DAG-Style Jobs by Adding Idle Slots	4504
<i>Yubin Duan, Jie Wu</i>	
Selective Forwarding Unit Placement in Edge Computing Based on DQN for Real-Time Communications.....	4510
<i>Jingze Dai</i>	
Toward Performance Efficient UAV Task Scheduling in Cloud Native Edge.....	4517
<i>Siqi Huang, Deze Zeng, Zhihao Qu</i>	
Characterization of Airborne Pathogen Transmission in Turbulent Molecular Communication Channels	4523
<i>Fatih Gulec, Falko Dressler, Andrew W. Eckford</i>	
Signal Reception with Generic Three-State Receptors in Synaptic MC	4529
<i>Sebastian Lotter, Michael T. Barros, Robert Schober, Maximilian Schäfer</i>	
Modeling Ultrasonic Channels with Mobility for Gateway to In-Body Nanocommunication.....	4535
<i>Jorge Torres Gómez., Anke Kuestner, Lukas Stratmann, Falko Dressler</i>	
Wet-Laboratory Experiments and Computer Simulation of Growing Cell Clusters	4541
<i>Karin Matsushita, Tadashi Nakano</i>	
Collective Rotational Motion of Bio-Nanomachines Via Chemical and Physical Interactions.....	4547
<i>Jiewen Wang, Tadashi Nakano</i>	
Experimental Performance of Blind Position Estimation Using Deep Learning.....	4553
<i>Ivo Bizon, Zhongju Li, Ahmad Nimr, Marwa Chafii, Gerhard P. Fettweis</i>	
Achieving uRLLC with Machine Learning Based Vehicular OCC	4558
<i>Amirul Islam, Nikolaos Thomos, Leila Musavian</i>	
Radio Frequency Identification for Drones Using Spectrogram and CNN	4564
<i>Chaozheng Xue, Tao Li, Yongzhao Li, Yuhan Ruan, Rui Zhang</i>	
Finding Waldo in the CBRS Band: Signal Detection and Localization in the 3.5 GHz Spectrum.....	4570
<i>Nasim Soltani, Vini Chaudhary, Debashri Roy, Kaushik Chowdhury</i>	

Intelligent Blockage Recognition Using Cellular mmWave Beamforming Data: Feasibility Study.....	4576
<i>Bram Van Berlo, Yang Miao, Rizqi Hersyandika, Nirvana Meratnia, Tanir Ozcelebi, Andre Kokkeler, Sofie Pollin</i>	
Learning-Based Load-Aware Heterogeneous Vehicular Edge Computing	4583
<i>Lei Zhu, Zhizhong Zhang, Peng Lin, Omair Shafiq, Yu Zhang, F. Richard Yu</i>	
FLAC: Federated Learning with Autoencoder Compression and Convergence Guarantee	4589
<i>Mahdi Beitollahi, Ning Lu</i>	
GLEE: GPR-Based Latent Effect Elimination for Performance Prediction of Big Data Transfer	4595
<i>Wuji Liu, Daqing Yun, Chase Wu</i>	
Coexistence of eMBB and URLLC in Open Radio Access Networks: A Distributed Learning Framework.....	4601
<i>Madyan Alsenwi, Eva Lagunas, Symeon Chatzinotas</i>	
RF Fingerprinting Needs Attention: Multi-Task Approach for Real-World WiFi and Bluetooth.....	4607
<i>Anu Jagannath, Zackary Kane, Jithin Jagannath</i>	
Energy Efficiency of Holographic Transceivers Based on RIS.....	4613
<i>Alessio Zappone, Bho Matthiesen, Armin Dekorsy</i>	
Energy-Efficient Beamforming Design for Cooperative Double-IRS Aided Multi-User MIMO	4619
<i>Chang Lu, Yuan Fang, Ling Qiu</i>	
Multi-Functional RIS: An Integration of Reflection, Amplification, and Energy Harvesting.....	4625
<i>Wen Wang, Wanli Ni, Hui Tian, Naofal Al-Dhahir</i>	
Delay Minimization for RIS-NOMA Assisted MEC Networks with SWIPT	4631
<i>Lu Xia, Zheng Yang, Jingjing Cui, Fuhui Zhou, Yi Wu, Zhicheng Dong, Zhiguo Ding</i>	
RIS-Aided Secure Energy-Efficiency Maximization Under Uncertain CSI.....	4637
<i>Zongze Li, Shuai Wang, Miaowen Wen, Yik-Chung Wu</i>	
Volunteer Selection in Collaborative Crowdsourcing with Adaptive Common Working Time Slots	4643
<i>Riya Samanta, Vaibhav Saxena, Soumya K. Ghosh, Sajal K. Das</i>	
BERT-Based Ensemble Approaches for Hate Speech Detection	4649
<i>Khouloud Mnassri, Praboda Rajapaksha, Reza Farahbakhsh, Noel Crespi</i>	
Network Economics-Based Crowdsourcing in Online Social Networks.....	4655
<i>Aisha B Rahman, Md Sadman Siraj, Natasha Kubiak, Eirini Eleni Tsiropoulou, Symeon Papavassiliou</i>	
Efficient Information Sharing in ICT Supply Chain Social Network Via Table Structure Recognition	4661
<i>Bin Xiao, Yakup Akkaya, Murat Simsek, Burak Kantarci, Ala Abu Alkheir</i>	
Research on ICN Caching and Pricing Strategies Under the Package Billing Model	4667
<i>Quan Zheng, Jintao Lin, Wenliang Yan, Zhenghuan Xu, Qianbao Shi, Xiaobin Tan</i>	
CMOR Can See More: Centralized Optical Routing in Multi-Layer Space Networks	4673
<i>Rui Li, Baojun Lin, Yingchun Liu, Shuangjie Tan, Shuai Zhao, Mingji Dong, Jiale Lei, Linghe Kong</i>	

Stackelberg Game Based Secure Transmission Strategy for Cognitive Satellite Terrestrial Networks	4679
<i>Xiting Wen, Yuhan Ruan, Yongzhao Li, Rui Zhang</i>	
Research on Active Detection Method of Network Congestion.....	4685
<i>Ran Zhang, Jian Zhang, Lei Liu, Zhongmin Yan, Mianxiong Dong</i>	
The Converged Scheduling for Time Sensitive Mission in Satellite Formation Flying	4691
<i>Yuan Xing, Guofeng Zhao, Chuan Xu, Kefei Cheng, Shui Yut</i>	
Mega Satellite Constellations Analysis Regarding Handover: Can Constellation Scale Continue Growing?	4697
<i>Sijing Ji, Di Zhou, Min Sheng, Dong Chen, Liang Liu, Zhu Han</i>	
MTF2N: Multi-Channel Temporal-Frequency Fusion Network for Spectrum Prediction	4703
<i>Shuang Li, Yaxiu Sun, Han Zhang, Meiyu Wang, Zherui Zhang</i>	
Optimized Device Selection and Power Control for Wireless Federated Learning.....	4710
<i>Wei Guo, Ran Li, Chuan Huang, Xiaoqi Qin, Kaiming Shen, Wei Zhang</i>	
Storage-Aware Joint User Scheduling and Spectrum Allocation for Federated Learning	4716
<i>Yineng Shen, Jiantao Yuan, Xianfu Chen, Celimuge Wu, Rui Yin</i>	
Transfer Learning-Based Radio Frequency Fingerprint Identification Using ConvMixer Network.....	4722
<i>Tao Tian, Yu Wang, Heng Dong, Yang Peng, Yun Lin, Guan Gui, Haris Gacanin</i>	
Cost-Aware Hierarchical Federated Learning Via Over-The-Air Computing	4728
<i>Donglin Xue, Jingjing Luo, Changkun Jiang, Lin Gao</i>	
A Buffer-Aware Finite Blocklength Coding Scheme for Low-Latency Energy-Efficient Communications.....	4734
<i>Yuanrui Liu, Xiaoyu Zhao, Wei Chen, Ying-Jun Angela Zhang</i>	
Joint Coding of URLLC and eMBB in Wyner's Soft-Handoff Network in the Finite Blocklength Regime	4740
<i>Homa Nikbakht, Michèle Wigger, Shlomo Shamai Shitz, Jean-Marie Gorce, H. Vincent Poor</i>	
Short Packet Communication Over a Two-User Z-Interference Channel with Rayleigh Fading.....	4746
<i>J Deeraj Kumar, Parthajit Mohapatra, Nikolaos Pappas</i>	
Error Rate Analysis for Grant-Free Massive Random Access with Short-Packet Transmission	4752
<i>Xinyu Bian, Yuyi Mao, Jun Zhang</i>	
URLLC-Enabled Full-Duplex Hybrid mMIMO DF Relaying with Correlated Rician Channels	4758
<i>Rakesh Munagala, Dheeraj Naidu Amudala, Rohit Budhiraja</i>	
Channel Measurement and Characterization at 140 GHz in a Wireless Data Center.....	4764
<i>Guochao Song, Yuanbo Li, Jiamo Jiang, Chong Han, Ziming Yu, Ying Du, Zhiqin Wang</i>	
WiLi - Vehicular Wireless Channel Dataset Enriched with LiDAR and Radar Data.....	4770
<i>Benjamin Rainer, Stefan Zelenbaba, Anja Dakic, Markus Hofer, David Löschenbrand, Thomas Zemen, Xiaochun Ye, Guo Nan, Stefan Teschl, Peter Priller</i>	
Rayleigh-Jeans-Clarke Model for Wireless Noise in a Resonant Cavity: Scalar Case.....	4776
<i>Thomas L. Marzetta, Thorkild B. Hansen</i>	
Cell-By-Cell Line-Of-Sight Probability Models Based on Real-World Base Station Deployment	4782
<i>Bassel Abou Ali Modad, Xin Yu, Hae Jin Song, Yao-Yi Chiang, Andreas F. Molisch</i>	

Wi-Fi Standard Technology Identification Employing Dynamic Mode Decomposition Modeling.....	4788
<i>Ahmed Elsebaay, Hazem H. Refai</i>	
AoI-Oriented Content Caching and Updating in Maritime Internet of Things.....	4794
<i>Ruijin Sun, Yujie Zhang, Nan Cheng, Rong Chai, Tingting Yang, Meng Qin</i>	
Joint Anti-Interference and Anti-Collision for ABS-Assisted Medical-Care Sensor Networks.....	4800
<i>Yixin He, Dawei Wang, Fanghui Huang, Ruonan Zhang, Xin Gu, Jianping Pan</i>	
Lightweight XOR Based FEC Algorithm for Fragment Forwarding in 6LoWPAN Networks.....	4806
<i>Chenyang Ji, Amaury Bruniaux, Vasileios Kotsiou, Georgios Z. Papadopoulos, Periklis Chatzimisios</i>	
Multiple Access for Symbiotic Radios: Facilitating Massive IoT Connections with Cellular Networks	4812
<i>Jun Wang, Xiangyu Ding, Qianqian Zhang, Ying-Chang Liang</i>	
A Unified Polar Decoder Platform for Low-Power and Low-Cost Devices	4818
<i>Jiajie Tong, Qifan Zhang, Huazi Zhang, Jun Wang, Wen Tong</i>	
Carbon-Neutralized Task Scheduling for Green Computing Networks	4824
<i>Chien-Sheng Yang, Chien-Chun Huang-Fu, I-Kang Fu</i>	
Robust Virtual Network Allocation Under Uncertainty of Traffic Demands and Renewable Energy Power.....	4830
<i>Kengo Urata, Ryota Nakamura, Shigeaki Harada</i>	
Prospect Theory-Inspired Automated P2P Energy Trading with Q-Learning-Based Dynamic Pricing	4836
<i>Ashutosh Timilsina, Simone Silvestri</i>	
A Multi-Strategy Multi-Objective Hierarchical Approach for Energy Management in 5G Networks.....	4842
<i>S. Krishna Gowtam Peesapati, Magnus Olsson, Sören Andersson</i>	
An Incentive-Based Differential Privacy-Preserving Truth Discovery Over Streaming Data	4848
<i>Yaxuan Huang, Feng Liu, Jingcheng Zhao, Shaoxian Yuan, Kaiping Xue, Xianchao Zhang</i>	
Privacy-Preserving Outsourced Task Scheduling in Mobile Crowdsourcing.....	4854
<i>Yunguo Guan, Pulei Xiong, Songnian Zhang, Rongxing Lu</i>	
Efficient and Privacy-Preserving Fusion Based Multi-Biometric Recognition.....	4860
<i>Linlin Li, Hui Zhu, Yandong Zheng, Fengwei Wang, Rongxing Lu, Hui Li</i>	
Efficiency-Improved Privacy-Preserving Weighted Similarity Query Over Outsourced eHealthcare Data	4866
<i>Yandong Zheng, Rongxing Lu, Songnian Zhang, Hui Zhu, Fengwei Wang</i>	
Personalized Privacy-Preserving Federated Learning: Optimized Trade-Off Between Utility and Privacy.....	4872
<i>Jinhao Zhou, Zhou Su, Jianbing Ni, Yuntao Wang, Yanghe Pan, Rui Xing</i>	
Deep Learning-Based Multi-PLC Anomaly Detection in Industrial Control Systems.....	4878
<i>Philip Gawehn, Doganalp Ergenc, Mathias Fischer</i>	
A New Implementation of Federated Learning for Privacy and Security Enhancement.....	4885
<i>Xiang Ma, Haijian Sun, Rose Qingyang Hu, Yi Qian</i>	

A Reinforcement Learning-Based Sequence Generation Algorithm for Password Guessing	4891
<i>Zheng Chen, Xuliang Zhang</i>	
DFSNet: Deep Fractional Scattering Network for LoRa Fingerprinting	4897
<i>Tiantian Zhang, Pinyi Ren, Dongyang Xu, Zhanyi Ren</i>	
Leveraging Byte-Level Features for LSTM-Based Anomaly Detection in Controller Area Networks.....	4903
<i>Lixue Liang, Xiaojie Lin, Baihe Ma, Xu Wang, Ying He, Ren Ping Liu, Wei Ni</i>	
Heuristic Optimization of Bandwidth Reservation Cost for Vehicular Applications.....	4909
<i>Abdullah A. Al-Khatib, Muneeb Ul Hassan, Klaus Moessner</i>	
SvTI: SFC-Driven Queue Injection in Virtual Time-Sensitive Network Via Augmented Topology.....	4916
<i>Yajing Zhang, Qimin Xu, Cailian Chen, Mingyan Li, Xinping Guan</i>	
Machine Learning Network Tomography with Partial Topology Knowledge and Dynamic Routing	4922
<i>Ippokratis Sartzetakis, Emmanouel Varvarigos</i>	
Optimization of Assisted Search Over Server-Mediated Peer-To-Peer Networks	4928
<i>Zifan He, Leonard Kleinrock</i>	
Towards Network Dynamics: Adaptive Buffer Management with Deep Reinforcement Learning	4935
<i>Jing Zhu, Dan Wang, Shuxin Qin, Gaofeng Tao, Hongxin Gui, Fang Li, Liang Ou</i>	
Federated Learning Based Demand Reshaping for Electric Vehicle Charging.....	4941
<i>Mehmet Dedeoglu, Sen Lin, Zhaofeng Zhang, Junshan Zhang</i>	
UAV-Assisted Networks with Underlaid Ambient Backscattering: Modeling and Outage Analysis	4947
<i>Xu Jiang, Min Sheng, Nan Zhao, Junyu Liu, Dusit Niyato, F. Richard Yu</i>	
Learning-Based Cooperative Aerial and Ground Vehicle Routing for Emergency Communications	4953
<i>Yuchao Zhu, Shaowei Wang</i>	
Sparse Big Data for Vehicular Network Traffic Flow Estimation: A Machine Learning Approach.....	4959
<i>Jianzhe Xue, Tianqi Zhang, Wen Wu, Haibo Zhou, Xuemin Shen</i>	
On the Value of Retransmissions for Age of Information in Random Access Networks Without Feedback.....	4964
<i>Andrea Munari</i>	
Latency and Peak Age of Information in Multipath Coded Communications.....	4971
<i>Federico Chiariotti, Beatriz Soret, Petar Popovski</i>	
Information Freshness in a Dual Monitoring System.....	4977
<i>Dapeng Deng, Zhengchuan Chen, Howard H. Yang, Nikolaos Pappas, Limei Hu, Min Wang, Yunjian Jia, Tony Q. S. Quek</i>	
Semantic Source Coding for Two Users with Heterogeneous Goals	4983
<i>Pouya Agheli, Nikolaos Pappas, Marios Kountouris</i>	
Predictive Rate Selection for Ultra-Reliable Communication Using Statistical Radio Maps	4989
<i>Tobias Kallehauge, Pablo Ramirez-Espinosa, Anders E. Kalør, Christophe Biscio, Petar Popovski</i>	
Electromagnetic Radiation Safety on Far-Field Wireless Power Transfer in IoT	4995
<i>Fuyong Ma, Xilong Liu, Nirwan Ansari</i>	

Multi-Gigabit Millimeter-Wave Industrial Communication: A Solution for Industry 4.0 and Beyond	5001
<i>Abdul Jabbar, Muhammad Ali Jamshed, Mahmoud A. Shawky, Qammer H. Abbasi, Muhammad Ali Imran, Masood Ur Rehman</i>	
DI-Gesture: Domain-Independent and Real-Time Gesture Recognition with Millimeter-Wave Signals	5007
<i>Yadong Li, Dongheng Zhang, Jinbo Chen, Jinwei Wan, Dong Zhang, Yang Hu, Qibin Sun, Yan Chen</i>	
AI-Enabled Jammer Deception Using Decoy Packets	5013
<i>Stephan Frisbie, Mohamed Younis</i>	
Joint Sensing and Communications for Deep Reinforcement Learning-Based Beam Management in 6G	5019
<i>Yujie Yao, Hao Zhou, Melike Erol-Kantarci</i>	
A Novel SDN-Enabled Edge Computing Load Balancing Scheme for IoT Video Analytics	5025
<i>Pouria Pourrashidi Shahrabaki, Rodolfo W. L. Coutinho, Yousef R. Shayan</i>	
Multi-Criteria Modeled Live Service Migration for Heterogeneous Edge Computing	5031
<i>Ayman Radwan, Hao Ran Chi, Daniel Corujo, José Quevedo, Rui Silva, David Santos, Rui L. Aguiar, Osama Abboud, Artur Hecker</i>	
Deadline-Constrained Multi-Resource Task Mapping and Allocation for Edge-Cloud Systems.....	5037
<i>Chuanhao Gao, Aryaman Shaan, Arvind Easwaran</i>	
A Deep Reinforcement Learning Scheme for SCMA-Based Edge Computing in IoT Networks	5044
<i>Pengtao Liu, Jing Lei, Wei Liu</i>	
On-Line Interpolation-Based Data Management for Time-Series Data Toward Edge Computing	5050
<i>Hiroki Oikawa, Hangli Ge, Noboru Koshizuka</i>	
Field of View Aware Proactive Caching for Mobile Augmented Reality Applications.....	5057
<i>Zhaohui Huang, Vasilis Friderikos</i>	
Model-Based Reinforcement Learning for Quantized Federated Learning Performance Optimization.....	5063
<i>Nuocheng Yang, Sihua Wang, Mingzhe Chen, Christopher G. Brinton, Changchuan Yin, Walid Saad, Shuguang Cui</i>	
Energy Harvesting Aware Client Selection for Over-The-Air Federated Learning	5069
<i>Caijuan Chen, Yi-Han Chiang, Hai Lin, John C. S. Lui, Yusheng Ji</i>	
Client Selection and Bandwidth Allocation for Federated Learning: An Online Optimization Perspective.....	5075
<i>Yun Ji, Zhoubin Kou, Xiaoxiong Zhong, Hangfan Li, Fan Yang, Sheng Zhang</i>	
Object-Based Resolution Selection for Efficient Edge-Assisted Multi-Task Video Analytics	5081
<i>Chengzhi Wang, Peng Yang, Jie Lin, Wen Wu, Ning Zhang</i>	
Analysis and Optimization of Hybrid Caching in mmWave Networks with BS Cooperation	5087
<i>Le Yang, Fu-Chun Zheng, Shi Jin</i>	
Triple-Hop Mixed RF-FSO-FSO Analysis Over Double Shadowed κ - μ and Málaga- \mathcal{M} Turbulence.....	5093
<i>Neji Mensi, Danda B. Rawat</i>	

Joint Computation Offloading, UAV Trajectory, User Scheduling, and Resource Allocation in SAGIN.....	5099
<i>Minh Dat Nguyen, Long Bao Le, André Girard</i>	
Performance Evaluation of BATMAN-Adv Protocol on Convergecast Communication in UAV Networks	5105
<i>Shijie Liu, Chao Dong, Xiaojun Zhu, Ji'ao Tang, Lei Zhang</i>	
Uplink Payload Power Control in Cell-Free Communication and Radar Networks.....	5111
<i>Adham Sakhnini, André Bourdoux, Mamoun Guenach, Hichem Sahli, Sofie Pollin</i>	
Age-Aware Task Scheduling Scheme in Hybrid GEO-LEO Satellite Networks	5117
<i>Dongqing Li, Shaohua Wu, Jian Jiao, Ning Zhang, Qinyu Zhang</i>	
Dynamic Control of Data-Intensive Services Over Edge Computing Networks.....	5123
<i>Yang Cai, Jaime Llorca, Antonia M. Tulino, Andreas F. Molisch</i>	
Probabilistic Edge Multicast Routing for the XRP Network.....	5129
<i>Vytautas Tumas, Sean Rivera, Damien Magoni, Radu State</i>	
A DQN-Based Joint Spectrum and Computing Resource Allocation Algorithm for MEC Networks	5135
<i>Li Yu, Jun Zheng, Yuying Wu, Feifan Zhou, Feng Yan</i>	
Deep Reinforcement Learning for Dependency-Aware Microservice Deployment in Edge Computing.....	5141
<i>Chenyang Wang, Bosen Jia, Hao Yu, Xiuhua Li, Xiaofei Wang, Tarik Taleb</i>	
QoS-Based Task Replication for Alleviating Uncertainty in Edge Computing	5147
<i>Ibrahim M. Amer, Sharief M. A. Oteafy, Sara A. Elsayed, Hossam S. Hassanein</i>	
TDD Frame Design for Interference Handling in Mobile IAB Networks.....	5153
<i>Victor F. Monteiro, Fco. Rafael M. Lima, Darlan C. Moreira, Diego A. Sousa, Tarcisio F. Maciel, Behrooz Makki, Ritesh Shreevastav, Hans Hannu</i>	
A New Approach for an End-To-End Communication System Using Variational Auto-Encoder (VAE).....	5159
<i>Mohamad A. Alawad, Mutasem Q. Hamdan, Khairi A. Hamdi, Chuan Heng Foh, Atta Ul Quddus</i>	
Rate Splitting Multiple Access for Cognitive Radio GEO-LEO Co-Existing Satellite Networks	5165
<i>Wali Ullah Khan, Zain Ali, Eva Lagunas, Symeon Chatzinotas, Björn Ottersten</i>	
Adaptive Learning-Based Secure and Energy-Aware Resource Management for Multi-Mode Low-Carbon PloT	5171
<i>Haijun Liao, Zehan Jia, Zhao Wang, Zhenyu Zhou, Xiaoyan Wang, Shahid Mumtaz, Mohsen Guizani</i>	
Resource Management for Heterogeneous Aerial Networks with Backhaul Constraints	5177
<i>Daosen Zhai, Qiqi Shi, Haotong Cao, Sahil Garg, Xi Chen, Rongxing Lu</i>	
An Energy-Efficient Computing Offloading Framework for Blockchain-Enabled Video Streaming Systems.....	5183
<i>Shijing Yuan, Jie Li, Yuxuan Zhu, Chentao Wu, Yue Ding</i>	
Attention Cooperative Task Offloading and Service Caching in Edge Computing	5189
<i>Zhixiu Yao, Yun Li, Shichao Xia, Guangfu Wu</i>	

Fused-Layer-Based DNN Model Parallelism and Partial Computation Offloading.....	5195
<i>Mingze Li, Ning Wang, Huan Zhou, Yubin Duan, Jie Wu</i>	
Efficient and Trusted Task Offloading in Vehicular Edge Computing Networks.....	5201
<i>Xiangshen Chen, Hongzhi Guo, Jiajia Liu</i>	
UCL: Unit Competition of Layers for Streaming Tasks in Heterogeneous Networks	5207
<i>Jing Yu, Liantao Wu, Guoliang Gao, Chenyu Gong</i>	
Learning Perturbations for Soft-Output Linear MIMO Demappers.....	5213
<i>Daniel E. Worrall, Markus Peschl, Arash Behboodi, Roberto Bondesan</i>	
Environment-Robust Signal Detection for OTFS Systems Using Deep Learning	5219
<i>Qingqing Cheng, Zhenguo Shi, Jinhong Yuan, Mingyu Zhou</i>	
Knowledge Graph Based Waveform Recommendation: A New Communication Waveform Design Paradigm.....	5225
<i>Wei Huang, Jun Wang, Qihang Peng, Wei Li</i>	
A Three-Mode Erasure Code for Continuous Variable Quantum Communications	5231
<i>Eduardo Villaseñor, Robert Malaney</i>	
Frame Synchronization for Quantum Key Distribution Systems	5237
<i>Sara T. Mantey, Mariana F. Ramos, Nuno A. Silva, Armando N. Pinto, Nelson J. Muga</i>	
New Quantum Burst-Error Correcting Codes from Interleaving Technique.....	5243
<i>Cibele Cristina Trinca, Clarice Dias De Albuquerque, Reginaldo Palazzo Junior, J. Carmelo Interlando, Antonio Aparecido De Andrade, Ricardo Augusto Watanabe</i>	
Outage Analysis of Holographic Surface Assisted Downlink Terahertz NOMA.....	5249
<i>Athanasios P. Chrysologou, Alexandros-Apostolos A. Boulogeorgos, Nestor D. Chatzidiamantis, Angeliki Alexiou</i>	
Study on the Interference of a Communication System Based on a Meta-Surface in mmWave.....	5255
<i>Carola Rizza, Valeria Loscri</i>	
Optimizing the Deployment of Reconfigurable Intelligent Surfaces in MmWave Vehicular Systems.....	5261
<i>Xiaowen Tian, Nuria Gonzalez-Prelcic, Robert W. Heath</i>	
RIS-Aided Angular-Based Hybrid Beamforming Design in mmWave Massive MIMO Systems.....	5267
<i>Ibrahim Yildirim, Asil Koc, Ertugrul Basar, Tho Le-Ngoc</i>	
Liquid State Machine-Empowered Reflection Tracking in RIS-Aided THz Communications.....	5273
<i>Hosein Zarini, Narges Gholipoor, Mohammad Robat Mili, Mehdi Rasti, Hina Tabassum, Ekram Hossain</i>	
DearFSAC: A DRL-Based Robust Design for Power Demand Forecasting in Federated Smart Grid.....	5279
<i>Chenghao Huang, Weilong Chen, Xiaoyi Wang, Feng Hong, Shunji Yang, Yuxi Chen, Shengrong Bu, Changkun Jiang, Yingjie Zhou, Yanru Zhang</i>	
Attentive Knowledge Transfer for Short-Term Load Forecasting.....	5285
<i>Di Wu, Michael Jenkin, Yi Tian Xu, Xue Liu, Gregory Dudek</i>	
EleGNN: Electrical-Model-Guided Graph Neural Networks for Power Distribution System State Estimation.....	5292
<i>Hui Lin, Yan Sun</i>	

Peak Demand Optimization of Commercial Buildings Based on Energy Storage Systems	5299
<i>Ze Zhang Yang, Jake Rabinowitz, Jian Li</i>	
Unsupervised Deep Learning for AC Optimal Power Flow Via Lagrangian Duality	5305
<i>Kejun Chen, Shourya Bose, Yu Zhang</i>	
Toward Failure-Aware Energy-Efficient Service Provisioning in Vehicular Fog Computing	5311
<i>Chaogang Tang, Chunsheng Zhu, Huaming Wu, Lei Ning, Joel J. P. C. Rodrigues</i>	
Fast-Pipe: Efficient Multi-Channel Data Mapping on Edge FPGAs for Satellite Remote Sensing	5317
<i>Chaoran Shu, Boyu Qi, Yanfei Sun, Kun Wang</i>	
Maximum Focal Inter-Class Angular Loss with Norm Constraint for Automatic Modulation Classification	5323
<i>Sicheng Zhang, Jiangzhi Fu, Zherui Zhang, Shui Yu, Shiwen Mao, Yun Lin</i>	
Deep Reinforcement Learning-Based Secure Standalone Intelligent Reflecting Surface Operation	5329
<i>Yasaman Omid, Yansha Deng, Arumugam Nallanathan</i>	
LPCSE: Neural Speech Enhancement Through Linear Predictive Coding	5335
<i>Yang Liu, Na Tang, Xiaoli Chu, Yang Yang, Jun Wang</i>	
TSI-Aided Real-Time Monitoring of Brownian Motions: A Rate-Latency-Distortion Perspective.....	5342
<i>Siyuan Yu, Wei Chen, H. Vincent Poor</i>	
An Incremental Decoding Scheme for Optimal Real-Time Control of Markovian Systems	5348
<i>Junjie Wu, Wei Chen</i>	
Environment-Aware Wireless Localization Enabled by Channel Knowledge Map.....	5354
<i>Yang Long, Yong Zeng, Xiaoli Xu, Yongming Huang</i>	
Integrated Segmentation and Subspace Clustering for RSS-Based Localization Under Blind Calibration	5360
<i>Zheng Xing, Junting Chen, Yadan Tang</i>	
Wand: Remote Control System Based on Ultra-Wideband Localization Using Smartphone	5366
<i>Junyoung Choi, Mingyu Lee, Taewoo Kim, Haeyoung Jun</i>	
Quantifying the Impact of Localization Error on Indoor Channel Prediction Using REMs.....	5372
<i>Friedrich Burmeister, Zhongju Li, Nick Schwarzenberg, Andreas Traßl, Richard Jacob, Gerhard Fettweis</i>	
Localization Coverage Analysis of THz Communication Systems with a 3D Array	5378
<i>Pinjun Zheng, Tarig Ballal, Hui Chen, Henk Wymeersch, Tareq Y. Al-Naffouri</i>	
Hybrid Far- And Near-Field Channel Estimation for THz Ultra-Massive MIMO Via Fixed Point Networks	5384
<i>Wentao Yu, Yifei Shen, Hengtao He, Xianghao Yu, Jun Zhang, Khaled B. Letaief</i>	
Intelligent Near-Field Channel Estimation for Terahertz Ultra-Massive MIMO Systems	5390
<i>Anho Lee, Hyungyu Ju, Seungnyun Kim, Byonghyo Shim</i>	
Channel Estimation for Reconfigurable Intelligent Surface-Aided mmWave Communications	5396
<i>Seungnyun Kim, Byonghyo Shim</i>	

Channel Estimation for HF Skywave Massive MIMO-OFDM with Triple-Beam Based Channel Model	5402
<i>Ding Shi, Linfeng Song, Wenqi Zhou, Xiqi Gao, Cheng-Xiang Wang, Geoffrey Ye Li</i>	
Two-Timescale Joint UL/DL Dictionary Learning and Channel Estimation in Massive MIMO Systems.....	5408
<i>Yangliu Zhao, Yinglei Teng, An Liu, Vincent Lau</i>	
Effects of Beam Misalignment on Heterogeneous Cellular Networks with Mm-Wave Small Cells	5414
<i>Muhammad Saad Zia, Douglas M. Blough, Mary Ann Weitnauer</i>	
Designing a Broadband MIMO Antenna for Next Generation Wireless Communication Systems	5420
<i>Sarosh Ahmad, Wael Jaafar, Halim Yanikomeroglu</i>	
Slanting mmWave Subarrays in the Hybrid Architecture to Compensate for Directional Antenna Elements	5426
<i>Edith Ghunney, Mary Ann Weitnauer</i>	
Angular Distance-Based Performance Analysis of mmWave Cellular Networks.....	5432
<i>Charalampos K. Armeniakos, Athanasios G. Kanatas</i>	
Performance Analysis for mm-Wave ISAC Systems with Mutual Benefit.....	5438
<i>Yinghong Guo, Chengliang Yin, Ouxin Lu, Manlin Wang, Bin Xia</i>	
Framed Projective Cone Scheduling: Latency Vs. Context-Switching Tradeoff in Data Centers.....	5444
<i>Emi Zeger, Ariana J. Mann, Nicholas Bambos</i>	
Double Perturbation-Based Privacy-Preserving Federated Learning Against Inference Attack	5451
<i>Yongqi Jiang, Yanhang Shi, Siguang Chen</i>	
Power Minimizing MEC Offloading with QoS Constraints Over RIS-Empowered Communications	5457
<i>Mattia Merluzzi, Francesca Costanzo, Konstantinos D. Katsanos, George C. Alexandropoulos, Paolo Di Lorenzo</i>	
Dynamic Fog Intelligence with Flow Control for Green Internet of Things	5463
<i>Ruelia Saha, Nurzaman Ahmed, Sudip Misra</i>	
PPsky: Privacy-Preserving Skyline Queries with Secret Sharing in eHealthcare.....	5469
<i>Songnian Zhang, Suprio Ray, Rongxing Lu, Yunguo Guan</i>	
ZkMLaaS: A Verifiable Scheme for Machine Learning as a Service	5475
<i>Chenyu Huang, Jianzong Wang, Huangxun Chen, Shijing Si, Zhangcheng Huang, Jing Xiao</i>	
Fast Chaotic Image Encryption with Simultaneous Permutation and Diffusion for IoT Applications.....	5481
<i>João Inácio Moreira Bezerra, Gustavo Machado, Rafael Soares, Alexandre Molter, Vinicius V. Camargo</i>	
Secure and Distributed Access Control for Dynamic Pervasive Edge Computing Services	5487
<i>Lingshuang Liu, Cheng Huang, Dan Zhu, Dongxiao Liu, Jianbing Ni, Xuemin Sherman Shen</i>	
Service Migration Authentication Protocol for MEC.....	5493
<i>Pasika Ranaweera, Awaneesh Kumar Yadav, Madhusanka Liyanage, Anca Delia Jurcut</i>	
Relaxation-Phase-Based Robust Directional Modulation with Angle Estimation Error	5499
<i>Jin-Zhe Xu, Qian Xu, Xin Yang, Ling Wang, Wen-Bin Sun</i>	

Impact of Frequency Offset on Artificial Noise Suppression in SIMO Physical Layer Security Systems.....	5505
<i>Yu Mao, Hongzhi Zhao, Changqing Song, Shihai Shao</i>	
Key Generation with Ambient Audio.....	5510
<i>Bo-Rong Chen, Hsin-Tien Chiang, Heng-Cheng Kuo, Yu Tsao, Yih-Chun Hu</i>	
Covert Communication in Uplink NOMA Systems Against a Two-Phase Detector	5516
<i>Zhengxiang Duan, Xin Yang, Qian Xu, Ling Wang</i>	
TPT: A Scalable Traffic Path Tracking Scheme Using Improved Viterbi Algorithm in Satellite Internet	5522
<i>Wei Guo, Jin Xu, Yukui Pei, Liuguo Yin</i>	
In-Vehicle Network Delay Tomography	5528
<i>Amani Ibraheem, Zhengguo Sheng, George Parisis, Daxin Tian</i>	
Shapley Explainer - An Interpretation Method for GNNs Used in SDN.....	5534
<i>Chuanhuang Li, Jiali Lou, Shiyuan Liu, Zebin Chen, Xiaoyong Yuan</i>	
Interference Correlation Caused by Spatio-Temporal Correlation of Traffic.....	5541
<i>Lisha Zou, Yi Zhong, Fei Gong, Tao Han</i>	
Exact and Scalable Network Reliability Evaluation for Probabilistic Correlated Failures.....	5547
<i>Ryoma Onaka, Kengo Nakamura, Takeru Inoue, Masaaki Nishino, Norihito Yasuda, Shinsaku Sakaue</i>	
Throughput Analytics of Cloud Networks	5553
<i>Derek Phanekham, Suku Nair, Nageswara S. V. Rao, Mike Truty</i>	
QoE Maximization for Multi-Antenna UAV-Enabled Video Streaming	5559
<i>Jingrui Liao, Cheng Zhan, Yang Yang, Bin Zeng</i>	
Trajectory and Power Design to Balance UAV Communication Capacity and Unintentional Interference.....	5565
<i>Kehao Wang, Yongguang Lu, Pei Liu, Xiaobai Li, Guangyu Li, Hyundong Shin</i>	
On Efficient UAV Charging Trajectory for Large-Scale Wireless Sensor Networks	5571
<i>Rongrong Zhang, Yingying Qiao, Hui Li, Mengyu Li</i>	
Intelligent Reflecting Surface Aided Vehicular Edge Computing.....	5577
<i>Mohammed Laroui, Hassine Moun gla, Hossam Afifi, Mohamed Y. Selim, Ahmed E. Kamal</i>	
Community-Oriented Resource Allocation at the Extreme Edge.....	5583
<i>Abdalla A. Moustafa, Sara A. Elsayed, Hossam S. Hassanein</i>	
On Delay-Doppler Plane Orthogonal Pulse.....	5589
<i>Hai Lin, Jinhong Yuan</i>	
Joint Sensing and Communications in Finite Block-Length Regime	5595
<i>Flavio Zabini, Enrico Paolini, Wen Xu, Andrea Giorgetti</i>	
Flowing the Information from Shannon to Fisher: Towards the Fundamental Tradeoff in ISAC.....	5601
<i>Yifeng Xiong, Fan Liu, Yuanhao Cui, Weijie Yuan, Tony Xiao Han</i>	
Cognitive Waveform Design for Dual-Functional MIMO Radar-Communication Systems	5607
<i>Zongyao Zhao, Xinke Tang, Yuhan Dong</i>	

Trilateration-Based Device-Free Sensing: Two Base Stations and One Passive IRS Are Sufficient.....	5613
<i>Qipeng Wang, Liang Liu, Shuowen Zhang, Francis C. M. Lau</i>	
Real-Time Optimal Multibeam and Power Allocation in 5G Satellite–Terrestrial IoT Networks	5619
<i>Trung Q. Duong, Long D. Nguyen, Tinh T. Bui, Khanh D. Pham</i>	
Collaborative Computation Offloading and Resource Allocation in Satellite Edge Computing.....	5625
<i>Ruisong Wang, Weichen Zhu, Gongliang Liu, Ruofei Ma, Di Zhang, Shahid Mumtaz, Soumaya Cherkaoui</i>	
Sensor Deployment and Link Analysis in Satellite IoT Systems for Wildfire Detection.....	5631
<i>How-Hang Liu, Ronald Y. Chang, Yi-Ying Chen, I-Kang Fu, H. Vincent Poor</i>	
Geo-Spatio-Temporal Information Based 3D Cooperative Positioning in LOS/NLOS Mixed Environments.....	5637
<i>Yue Cao, Shaoshi Yang, Zhiyong Feng</i>	
NLoS Detection for Enhanced 5G mmWave-Based Positioning for Vehicular IoT Applications	5643
<i>Qamar Bader, Sharief Saleh, Mohamed Elhabiby, Aboelmagd Noureldin</i>	
Towards Resource-Aware DNN Partitioning for Edge Devices with Heterogeneous Resources	5649
<i>Muhammad Zawish, Lizy Abraham, Kapal Dev, Steven Davy</i>	
An IoT Traffic Modeling Framework and Its Application to Autonomous Edge Scaling	5656
<i>Dana Haj Hussein, Mohamed Ibnkahla</i>	
Container Scheduling in Hybrid Cloud-Edge Collaborative System.....	5662
<i>Jincheng Luo, Bing Tang, Jiaming Zhang</i>	
Heuristic-Based Proactive Service Migration Induced by Dynamic Computation Load in Edge Computing	5668
<i>Amr M. Zaki, Sara A. Elsayed, Khalid Elgazzar, Hossam S. Hassanein</i>	
Multitiered Worker-Oriented Resource Allocation at the Extreme Edge.....	5674
<i>Marah De'Bas, Sara A. Elsayed, Hossam S. Hassanein</i>	
Real-Time Data Acquisition and Processing Under Mobile Edge Computing-Assisted UAV System.....	5680
<i>Yao Zeng, Jianhua Tang</i>	
Optimal Job Scheduling and Bandwidth Augmentation in Hybrid Data Center Networks.....	5686
<i>Binquan Guo, Zhou Zhang, Ye Yan, Hongyan Li</i>	
Parallel Computing at the Extreme Edge: Spatiotemporal Analysis	5692
<i>Mahmoud Abdelhadi, Sameh Sorour, Hesham Elsayy, Sara A. Elsayed, Hossam Hassanein</i>	
Joint Grouping and Offloading in NOMA-Assisted Multi-MEC IoVT Systems	5699
<i>Xinyu Yang, Hancheng Lu, Fengqian Guo, Yazheng Wang, Chani Kong, Qiaoqia Lu</i>	
Age-Of-Information-Aware Digital Twin Assisted Resource Management for Distributed Energy Scheduling	5705
<i>Yiling Shu, Zhao Wang, Haijun Liao, Zhenyu Zhou, Nidal Nasser, Muhammad Imran</i>	
Modeling of Correlated Blockage in Highway Vehicular Networks.....	5711
<i>Chang-Sik Choi, François Baccelli</i>	

Environment-Aware Reinforcement Learning Based VANET Communications Against Jamming and Interference	5717
<i>Zhiping Lin, Xiaohao Yan, Liang Xiao, Shi Yan, Yuliang Tang, Jun Liu</i>	
On Distributed Repetition Allocation for IEEE 802.11bd Under Time-Varying Channel Load Conditions	5723
<i>Richard Jacob, Lingjie Ji, Nick Schwarzenberg, Friedrich Burmeister, Gerhard Fettweis</i>	
A V2V Empowered Consensus Framework for Cooperative Autonomous Driving	5729
<i>Jiayu Cao, Supeng Leng, Lei Zhang, Muhammad Imran, Haoye Chai</i>	
Digital Twin-Driven Computing Resource Management for Vehicular Networks	5735
<i>Mushu Li, Jie Gao, Conghao Zhou, Xuemin Shen, Weihua Zhuang</i>	
VNetRadar: Lightweight and Network-Wide Traffic Measurement in Virtual Networks	5741
<i>Tie Ma, Jin Zhang, Long Luo, Hongfang Yu, Gang Sun, Jian Sun</i>	
Scale-Friendly In-Network Coordination	5747
<i>Stefanos Sagkriotis, Dimitrios Pazaros</i>	
Revenue-Oriented Service Offloading Through Fog-Cloud Collaboration in SD-WAN	5753
<i>Yi Zhang, Changqiao Xu, Gabriel-Miro Muntean</i>	
A Blockchain-Based SDN East/West Interface	5759
<i>Hai Nam Nguyen, Sami Souihi, Hai-Anh Tran, Scott Fowler</i>	
High-Speed Packet Classification: A Case for Approximate Sorting	5765
<i>Aditya Narasimhan, Sridhar Radhakrishnan, Mohammad Atiquzzaman, C. R. Subramanian</i>	
Exploiting NOMA for Radio Resource Efficient Traffic Steering Use-Case in O-RAN	5771
<i>Muhammad Waseem Akhtar, Aamir Mahmood, Sarder Fakhru Abedin, Syed Ali Hassan, Mikael Gidlund</i>	
Metric Learning-Based Few-Shot Malicious Node Detection for IoT Backhaul/Fronthaul Networks	5777
<i>Ke Zhou, Xi Lin, Jun Wu, Ali Kashif Bashir, Jianhua Li, Muhammad Imran</i>	
Satisfaction Optimization in Failure-Aware Vehicular Edge Computing	5783
<i>Chaogang Tang, Huaming Wu, Chunsheng Zhu</i>	
Design of Fog Computing Infrastructures with Rotary-Wing UAVs	5789
<i>Rodrigo A. C. Da Silva, Nelson L. S. Da Fonseca</i>	
Data Synchronization for Vehicular Digital Twin Network	5795
<i>Xiaoqing Yang, Jinkai Zheng, Tom H. Luan, Rui Li, Zhou Su, Mianxiong Dong</i>	
A Shapley Value-Based Strategy for Resource Allocation in Vehicular Clouds	5801
<i>Aguimar Ribeiro, Geraldo P. Rocha Filho, Daniel L. Guidoni, Robson E. De Grande, Sandra Sampaio, Rodolfo I. Meneguette</i>	
Computation Offloading for Latency Reduction in Regionalized Hierarchical Vehicular Fog Network	5807
<i>Yanbing Yang, Wenchi Cheng, Jiangzhou Wang</i>	
Radio Propagation Analysis Using Quantum Annealing	5813
<i>Tetsuro Imai, Wataru Yamada, Minoru Inomata, Nobuaki Kuno</i>	

The Design and Implementation of a Hybrid Classical-Quantum Annealing Polar Decoder.....	5819
<i>Srikar Kasi, John Kaewell, Kyle Jamieson</i>	
Quantum Discrimination of Noisy Photon-Subtracted Squeezed States	5826
<i>Andrea Giani, Moe Z. Win, Andrea Conti</i>	
Quantum Social Computing Approaches for Influence Maximization	5832
<i>Thang Dinh, An Nguyen, Uyen Nguyen, Giang Nguyen</i>	
Performance Optimization for Intelligent Reflecting Surface Assisted Multicast MIMO Networks.....	5838
<i>Songling Zhang, Zhaohui Yang, Mingzhe Chen, Danpu Liu, Kai-Kit Wong, H. Vincent Poor</i>	
On the Achievable Rate of IRS-Assisted Multigroup Multicast Systems	5844
<i>Muhammad Farooq, Vaibhav Kumar, Markku Juntti, Le-Nam Tran</i>	
Modeling Reconfigurable Intelligent Surfaces-Aided Directional Communications for Multicast Services	5850
<i>Olga Chukhno, Nadezhda Chukhno, Sara Pizzi, Antonella Molinaro, Antonio Iera, Giuseppe Araniti</i>	
Deep Reinforcement Learning Empowered Smart Control of Intelligent Reflecting Surface.....	5856
<i>Wei Wang, Wei Zhang</i>	
Distributed RIS-Assisted FD Systems with Discrete Phase Shifts: A Reinforcement Learning Approach	5862
<i>Alice Faisal, Ibrahim Al-Nahhal, Octavia A. Dobre, Telex M. N. Ngatched</i>	
A Contract-Based Computing-Charging Protocol for Electric Vehicles with Vehicular Fog Computing.....	5868
<i>Zhiwei Wei, Bing Li, Rongqing Zhang, Xiang Cheng</i>	
SD-RAN Based Approach for Smart Grid Critical Traffic Routing and Scheduling in 5G Mobile Networks	5874
<i>Mohand Ouamer Nait Belaid, Vincent Audebert, Boris Deneuville, Rami Langar</i>	
Orthogonal Chirp-Division Multiplexing-Based Hybrid Power Line/Wireless System.....	5880
<i>Mateus De L. Filomeno, Túlio F. Moreira, Yan F. Coutinho, Andrei Camponogara, Marcello L. R. De Campos, Moisés V. Ribeiro</i>	
Accuracy-Versus-Energy Evaluation in Drone-Based Video Processing for Object Detection.....	5886
<i>Igor Bisio, Halar Haleem, Chiara Garibotto, Fabio Lavagetto, Andrea Sciarrone</i>	
Innovative Flying Strategy Based on Drone Energy Profile: An Application for Traffic Monitoring	5892
<i>Igor Bisio, Halar Haleem, Chiara Garibotto, Fabio Lavagetto, Andrea Sciarrone</i>	
Impact of Multipath Signals on Terrestrial Fixed Service Interference in Aeronautical SATCOM	5899
<i>Stephan P. Winter, Andreas Knopp</i>	
Deep Q Networks with Centralized Learning Over LEO Satellite Networks in a 6G Cloud Environment	5905
<i>Tiago Koketsu Rodrigues, Nei Kato</i>	
Coherent Communications for Free Space Optical Low-Earth Orbit Downlinks	5911
<i>Balázs Matuz, Ayman Zahr, Alexander Sauter</i>	
Maximum a-Posteriori Equalizer for Sparse Walsh Hadamard Modulation	5917
<i>Roberto Bomfin, Marwa Chafii, Ahmad Nimr, Gerhard Fettweis</i>	

Interference in Orthogonal Stockwell Division Multiplexing: CP Length Violation and STO	5923
<i>Túlio F. Moreira, Andrei Camponogara, Yan F. Coutinho, Mateus De L. Filomeno, Moisés V. Ribeiro</i>	
An Efficient Channel Estimation Scheme for Short Frame OTFS Using Impulse-Train Pilots	5929
<i>Haojian Zhang, Jianing Li, Tingting Zhang, Xu Zhu</i>	
A Wideband Capacity Maximization Approach for CSI Feedback in Frequency Selective Channels.....	5935
<i>Federico Penna, Hyukjoon Kwon, Dongwoon Bai, Jung Hyun Bae, Jaemin Kim, Junho Lee, Hui Won Je</i>	
Delay-Doppler Domain Estimation of Doubly-Selective Channels in Single-Carrier Systems	5941
<i>Cheng Shen, Jinhong Yuan, Yixuan Xie, Hai Lin</i>	
C-V2X Based Offloading Strategy in Multi-Tier Vehicular Edge Computing System.....	5947
<i>Weiyang Feng, Siyu Lin, Ning Zhang, Gongpu Wang, Bo Ai, Lin Cai</i>	
Two-Timescale Mobility Management for Multi-Cell Mobile Edge Computing	5953
<i>Zeju Liang, Yuan Liu, Tat-Ming Lok, Kaibin Huang</i>	
A Knowledge Graph-Based Cooperative Caching Scheme in MEC-Enabled Heterogeneous Networks	5959
<i>Yalu Bai, Dan Wang, Bin Song</i>	
Optimization of Image Transmission in Semantic Communication Networks	5965
<i>Wenjing Zhang, Yining Wang, Mingzhe Chen, Tao Luo, Dusit Niyato</i>	
Redundant Clustered Scheme Based on Weighted Cluster Head Selection for Damaged S-UAV	5971
<i>Grace Khayat, Constandinos X Mavromoustakis, George Mastorakis, Jordi Mongay Batalla, Evangelos Pallis</i>	
Trajectory Optimization of Cellular-Connected UAV for Information Collection and Transmission	5977
<i>Xianzhen Guo, Shuowen Zhang, Liang Liu</i>	
Wobbling and Impairments-Aware Channel Model and Its Implications on High-Frequency UAV Links.....	5983
<i>Morteza Banagar, Harpreet S. Dhillon</i>	
GRU-Aided Intra-Cluster Topology Mapping for Aeronautical Ad-Hoc Networks	5989
<i>Tugçe Bilen, Berk Canberk</i>	
Resource Allocation and UAVs Placement in Cell-Free Wireless Networks.....	5995
<i>Aya Ahmed, Cirine Chaieb, Wessam Ajib, Halima Elbiaze, Roch Glitho</i>	
An NWDAF Approach to 5G Core Network Signaling Traffic: Analysis and Characterization	6001
<i>Dimitrios Michael Manias, Ali Chouman, Abdallah Shami</i>	
Equilibrium-Driven Dynamic Pricing for Shared Access C-RAN	6007
<i>Jingbo Liu, Jiacheng Chen, Chaofan He, Haibo Zhou</i>	
Robust Capacity of Wireless Networks Under Cascading Failures.....	6013
<i>Wei Li, Junyu Liu, Min Sheng, Jiandong Li</i>	
A DRQN-Based Initial Contention Window Optimization Algorithm for NR-U and WiFi Coexistence Networks	6019
<i>Shurui Jiang, Jun Zheng</i>	

Conformal Metasurfaces for Recovering Dynamic Blockage in Vehicular Systems	6025
<i>Marouan Mizmizi, Dario Tagliaferri, Misagh Khosronejad, Laura Resteghini, Gian Guido Gentili, Lorenza Draghi, Umberto Spagnolini</i>	
Low-Complexity Energy Detection for Spatial Modulation	6031
<i>Elio Faddoul, Ghassan M. Kraidy, Ioannis Krikidis</i>	
Pre-Scaling and Codebook Design for Joint Radar and Communication Based on Index Modulation.....	6037
<i>Shengyang Chen, Aryan Kaushik, Christos Masouros</i>	
Interference-Cancellation Transceiver Design for Long-Range Multistatic Backscatter Communications.....	6042
<i>Jun Liu, Zhiyi Luo, Gang Yang, Ying-Chang Liang</i>	
Energy-Aware Scheduling of Virtualized Base Stations in O-RAN with Online Learning	6048
<i>Michail Kalntis, George Iosifidis</i>	
Power-Aware Traffic Engineering for Data Center Networks Via Deep Reinforcement Learning	6055
<i>Minglan Gao, Tian Pan, Enge Song, Mengqi Yang, Tao Huang, Yunjie Liu</i>	
Impersonation Attack Detection in IoT Networks.....	6061
<i>Dinh Duc Nha Nguyen, Keshav Sood, Yong Xiang, Longxiang Gao, Lianhua Chi</i>	
IoT Device Identification Based on Network Traffic Characteristics	6067
<i>Md Mainuddin, Zhenhai Duan, Yingfei Dong, Shaeke Salman, Tania Taami</i>	
Secure and Efficient Traffic Obfuscation for Smart Home	6073
<i>Gaofeng He, Xiancai Xiao, Renhong Chen, Haiting Zhu, Zhaowei Zhang, Bingfeng Xu</i>	
IoTminer: Semantic Information Extraction in the Packet Payloads.....	6079
<i>Yaxin Zhang, Min Huang, Qiang Li, Limin Sun</i>	
Exploiting Playback Device's Effect on Multi-Channel Audio to Secure Voice Assistants.....	6085
<i>Munmun Talukder, Jiang Xie</i>	
Side-Channel VoIP Profiling Attack Against Customer Service Automated Phone System	6091
<i>Roy Laurens, Edo Christianto, Bruce Caulkins, Cliff C. Zou</i>	
Optimal Cybersecurity Investments Using SIS Model: Weakly Connected Networks	6097
<i>Van Sy Mai, Richard J. La, Abdella Battou</i>	
MMOS: Multi-Staged Mutation Operator Scheduling for Deep Learning Library Testing	6103
<i>Junqiang Li, Senyi Li, Jiawei Wu, Long Luo, Yang Bai, Hongfang Yu</i>	
A Simplified Machine Learning Approach to Classifying Individual Websites	6109
<i>Tina Burns, Chuxu Song, Ivan Seskar, Jorge Ortiz, Richard P. Martin</i>	
Segmented Learning for Class-Of-Service Network Traffic Classification	6115
<i>Yoga Suhas Kuruba Manjunath, Sihao Zhao, Hatem Abou-Zeid, Akram Bin Sediq, Ramy Atawia, Xiao-Ping Zhang</i>	
Leveraging Web Browsing Performance Data for Network Monitoring: A Data-Driven Approach.....	6121
<i>Imane Taibi, Yassine Hadjadj-Aoul, Chadi Barakat</i>	

What Causes Delay Asymmetry: A Large-Scale One-Way Delay Measurement and Empirical Study.....	6127
<i>Yaozhong Liu, Jiahai Yang, Zhiliang Wang, Long Pan, Lin He, Jinlei Lin, Guanglei Song, Chenglong Li</i>	
Service Chaining Graph: Latency- And Energy-Aware Mobile VR Deployment Over MEC Infrastructures.....	6133
<i>Alisson Medeiros, Antonio Di Maio, Torsten Braun, Augusto Neto</i>	
Short-Term Trajectory Prediction for Full-Immersive Multiuser Virtual Reality with Redirected Walking	6139
<i>Filip Lemic, Jakob Struye, Jeroen Famaey</i>	
Relay-Based Network Architectures for Collaborative Virtual Reality Applications	6146
<i>Fadia Hasnaoui, Lamia Zohra Mihoubi, Maria Pateraki, Miloud Bagaa</i>	
Multi-Verse Optimizer for Multiple Reconfigurable Intelligent Surfaces Aided Indoor Wireless Network.....	6152
<i>Yuyin Ma, Kaoru Ota, Mianxiong Dong</i>	
QoE-Oriented Adaptive Video Streaming with Edge-Client Collaborative Super-Resolution	6158
<i>Xilai Liu, Zhihui Ke, Xiaobo Zhou, Tie Qiu, Keqiu Li</i>	
A Multi-Sample Discrete-Phase BCJR Algorithm for Phase Noise Channels	6164
<i>Barbara Ripani, Andrea Modenini, Guido Montorsi</i>	
On the Bayesian Cramér-Rao Bound for Phase Noise Estimation Based on 1-Bit Quantized Samples	6170
<i>Stephan Zeitz, Florian Gast, Meik Dörpinghaus, Gerhard Fettweis</i>	
MMSE Signal Detection for MIMO Systems Based on Ordinary Differential Equation.....	6176
<i>Ayano Nakai-Kasai, Tadashi Wadayama</i>	
Soft-Input, Soft-Output Joint Detection and GRAND.....	6182
<i>Hadi Sarieddeen, Muriel Médard, Ken. R. Duffy</i>	
Virtual Wiretap Channel Based on Wireless Two-Way Interferometry.....	6188
<i>Nobuyasu Shiga, Satoshi Yasuda, Kouki Yonaga, Kenichi Takizawa, Maki Yoshida</i>	
JUNO: Jump-Start Reinforcement Learning-Based Node Selection for UWB Indoor Localization.....	6194
<i>Zohreh Hajiakhondi-Meybodi, Ming Hou, Arash Mohammadi</i>	
Single-Antenna Sensor Localization with Reconfigurable Intelligent Surfaces.....	6200
<i>Zi Ye, Faryal Junaid, Rickard Nilsson, Jaap Van De Beek</i>	
3DLoc: A Non-Line-Of-Sight 3D Indoor Localization System in Wireless Sensor Networks	6206
<i>Kaikai Liu, Zengshan Tian, Ze Li, Xiaoyu Wan</i>	
Energy-Harvesting Based Jammer Localization: A Battery-Free Approach in Wireless Sensor Networks	6212
<i>Ahmed Hussain, Pietro Tedeschi, Gabriele Oliveri, Amr Mohamed, Mohsen Guizani</i>	
Low-Complexity Source Localization Based on Quaternion Analysis in Smart Ocean.....	6218
<i>Yi Lou, Xinghao Qu, Ruoyu Zhang, Yunjiang Zhao, Gang Qiao</i>	
AI-Enabled Health 4.0: An IoT-Based COVID-19 Diagnosis Use-Case	6224
<i>Xiaoyu Song, Wei Pan, Ismael Al Ridhawi, Ali Abbas, Safa Otoum</i>	

ConSerN: QoS-Aware Programmable Multitier Architecture for Dynamic IoT Networks	6230
<i>Aurélien Chambon, Abderrezak Rachedi, Abderrahim Sahli, Ahmed Mebarki</i>	
Novel Task Allocation Method for Emergency Events Under Delay-Cost Tradeoff.....	6236
<i>Mohamed Aboualola, Khalid Abualsaud, Tamer Khattab, Nizar Zorba</i>	
Automatic Network Slicing for Multi-Mode Internet of Underwater Things (MM-IoUT).....	6241
<i>Osama M. Bushnaq, Igor V. Zhilin, Giulia De Masi, Enrico Natalizio, Ian F. Akyildiz</i>	
Resource Allocation in Vehicle-Aided MIoT: How to Enhance Energy Efficiency in Packet Uploading?	6247
<i>Guanqiao Qu, Chenguang He, Qian Chen, Weixiao Meng</i>	
Delegated Proof of Stake Consensus with Mobile Voters and Multiple Entry PBFT Voting	6253
<i>Jelena Mišić, Vojislav B. Mišić, Xiaolin Chang</i>	
Defending Against DDOS Attacks on IoT Network Throughput: A Trust-Stackelberg Game Model	6259
<i>Chunyang Qi, Jie Huang, Cheng Huang, Huaqing Wu, Xuemin Sherman Shen</i>	
Light-Weight Congestion Control in Constrained IoT Networks.....	6265
<i>Hussam Abdul Khalek, Lotfi Mhamdi</i>	
Deep Reinforcement Learning for Data Freshness-Oriented Scheduling in Industrial IoT.....	6271
<i>Jiaping Li, Jianhua Tang, Zilong Liu</i>	
Multi-Protocol Aware Federated Matching for Architecture Design in Heterogeneous IoT.....	6277
<i>H. H. Esmat, X. Xia, B. Lorenzo, L. Guo</i>	
Hierarchical DRL for Self-Supplied Monitoring and Communication Integrated System in HSR.....	6283
<i>Zhuang Ling, Fengye Hu, Tanda Liu, Zhi Mao, Zhu Han</i>	
Cost-Effective Vehicular Data Offloading in ISTNs: A Reinforcement Learning Approach	6289
<i>Shen Wu, Nan Cheng, Zhisheng Yin, Jingchao He, Haibo Zhou</i>	
Vehicle-Assisted Data Delivery Based on Trajectory Prediction.....	6295
<i>Roniel S. De Sousa, Azzedine Boukerche, Antonio A. F. Loureiro</i>	
Dynamic Many-To-Many Task Offloading in Vehicular Fog Computing: A Multi-Agent DRL Approach	6301
<i>Zhiwei Wei, Bing Li, Rongqing Zhang, Xiang Cheng, Liuqing Yang</i>	
Multi-Agent Reinforcement Learning for Energy-Efficiency Edge Association in Internet of Vehicles.....	6307
<i>Yiyu Tao, Yan Lin, Yijin Zhang, Feng Shu, Jun Li</i>	
Age Outage Analysis in Remote Real-Time Tracking Control Systems.....	6313
<i>Ying Wang, Shaohua Wu, Jian Jiao, Ning Zhang, Qinyu Zhang</i>	
How Accurate is Selective INT for Traffic Trace Reconstruction and How to Adjust it Adaptively?.....	6319
<i>Zichen Xu, Zuqing Zhu</i>	
Traffic Workload Envelope for Network Performance Guarantees with Multiplexing Gain.....	6325
<i>Massieh Kordi Boroujeny, Brian L. Mark, Yariv Ephraim</i>	
An Accurate & Efficient Approach for Traffic Classification Inside Programmable Data Plane	6331
<i>Muhammad Saqib, Zakaria Ait Hmitti, Halima Elbiaze, Roch H. Glitho</i>	

HashCuckoo: Predicting Elephant Flows Using Meta-Heuristics in Programmable Data Planes.....	6337
<i>Marcus Vinicius Brito Da Silva, Alberto Egon Schaeffer-Filho, Lisandro Zambenedetti Granville</i>	
DWT in P4: Periodicity Detection in the Data Plane	6343
<i>Briggette R. Huaytalla, Arthur S. Jacobs, Marcus V. B. Silva, Fabrício B. Carvalho, Ronaldo A. Ferreira, Walter Willinger, Lisandro Z. Granville</i>	
Edge Intelligence for Synchronized Human-Robotic Arm Interactions Over Unreliable Wireless Channels.....	6349
<i>Xiaolong Wang, Yuchen Feng, Xinjie Gu, Yuzhu Long, Mithun Mukherjee, Kaneez Fizza, Qi Zhang, Mian Guo</i>	
Detection of Service Provider Hardware Over-Commitment in Container Orchestration Environments.....	6354
<i>Pedro Horchulhack, Eduardo K. Viegas, Altair O. Santin</i>	
Multi-Criteria Service Function Chaining Orchestration for Multi-User Virtual Reality Services	6360
<i>Hugo Santos, Denis Rosario, Eduardo Cerqueira, Torsten Braun</i>	
Modeling and Optimizing Resource-Constrained Instance-Based Transfer Learning	6366
<i>Mohammad Askarizadeh, Mostafa Hussien, Alireza Morsali, Kim Khoa Nguyen</i>	
Social-Aware Edge Intelligence: A Constrained Graphical Bandit Approach	6372
<i>Simeng Bian, Shangshang Wang, Yinxu Tang, Ziyu Shao</i>	
Wireless Network Simulation to Create Machine Learning Benchmark Data	6378
<i>Marc Katzef, Andrew C. Cullen, Tansu Alpcan, Christopher Leckie, Justin Kopacz</i>	
An Explainer for Temporal Graph Neural Networks	6384
<i>Wenchong He, Minh N. Vu, Zhe Jiang, My T. Thai</i>	
A Self-Attention Network for Deep JSCCM: The Design and FPGA Implementation	6390
<i>Shohei Fujimaki, Yoshiaki Inoue, Daisuke Hisano, Kazuki Maruta, Yu Nakayama, Yuko Hara-Azumi</i>	
Blue Communications for Edge Computing: The Reconfigurable Intelligent Surfaces Opportunity.....	6396
<i>Fatima Ezzahra Airod, Mattia Merluzzi, Antonio Clemente, Emilio Calvanese Strinati</i>	
Circularly Optimizing Secrecy Rate in RIS-Aided Multiuser Secure Communications	6402
<i>Chia-Chuan Hsu, Kuang-Hao Liu</i>	
A Joint Space-Frequency Anti-Jamming Scheme Based on Reconfigurable Intelligent Surface.....	6408
<i>Wenyu Jiang, Zhangbo Ren, Kaizhi Huang, Jie Yang, Yajun Chen, Xiaoli Sun</i>	
CrossCas: A Novel Cross-Platform Approach for Predicting Cascades in Online Social Networks with Hidden Markov Model	6415
<i>Jinwei Liu, Xiaonan Zhang, Richard A. Alo, Xiuzhen Huang, Long Cheng, Feng Deng</i>	
A Theoretical Framework for Information Search Using Online Social Networks.....	6421
<i>Rohit Negi, Mustafa Yilmaz</i>	
I Can Still Observe You: Flow-Level Behavior Fingerprinting for Online Social Network	6427
<i>Yebo Feng, Jianzhen Luo, Chengyan Ma, Teng Li, Liang Hui</i>	

Social Robot Detection Using RoBERTa Classifier and Random Forest Regressor with Similarity Analysis.....	6433
<i>Yeyang Chen, Mondher Bouazizi, Tomoaki Ohtsuki</i>	
A Novel LFM Waveform for Terahertz-Band Joint Radar and Communications Over Inter-Satellite Links.....	6439
<i>Gizem Sümen, Günes Karabulut Kurt, Ali Görçin</i>	
GEO Payload Power Minimization: Joint Precoding and Beam Hopping Design	6445
<i>Vu Nguyen Ha, Ti Ti Nguyen, Eva Lagunas, Juan Carlos Merlano Duncan, Symeon Chatzinotas</i>	
Tri-AoA: Robust AoA Estimation of Mobile RFID Tags with COTS Devices	6451
<i>Zihao Wang, Runhao Li, Rongzihan Song, Benaya Christo, Lei Sun, Zhiping Lin</i>	
Bi-Static Sensing for Near-Field RIS Localization	6457
<i>Reza Ghazalian, Kamran Keykhosravi, Hui Chen, Henk Wymeersch, Riku Jäntti</i>	
Doppler Exploitation in Bistatic mmWave Radio SLAM	6463
<i>Yu Ge, Ossi Kaltiokallio, Hui Chen, Fan Jiang, Jukka Talvitie, Mikko Valkama, Lennart Svensson, Henk Wymeersch</i>	
Doppler-Enabled Single-Antenna Localization and Mapping Without Synchronization.....	6469
<i>Hui Chen, Fan Jiang, Yu Ge, Hyowon Kim, Henk Wymeersch</i>	
Recurrent LSTM-Based UAV Trajectory Prediction with ADS-B Information	6475
<i>Yifan Zhang, Ziye Jia, Chao Dong, Yuntian Liu, Lei Zhang, Qihui Wu</i>	
Graph Convolutional Network Empowered Indoor Localization Method Via Aggregating MIMO CSI.....	6481
<i>Hao Gu, Jun Yang, Zhengran He, Guan Gui, Haris Gacanin</i>	
Online Learning Based NLOS Ranging Error Mitigation in 5G Positioning	6487
<i>Jiankun Zhang, Hao Wang</i>	
Importance-Aware Message Exchange and Prediction for Multi-Agent Reinforcement Learning	6493
<i>Xiufeng Huang, Sheng Zhou</i>	
Uplink-Downlink Joint Antenna Optimization in Cellular Systems with Sample-Efficient Learning	6499
<i>Ezgi Tekgul, Thomas Novlan, Salam Akoum, Jeffrey G. Andrews</i>	
HIENet: A Hardware Impairment Estimation Network for OFDM Systems	6505
<i>Siqi Liu, Tianyu Wang, Shaowei Wang</i>	
A Miniaturized 8x8 Dual-Layer EBG Slotted Circularly Polarized Patch Antenna Array for mMIMO	6511
<i>Yuanzhe Gong, Robert Morawski, Hak Hyun Lee, Tho Le-Ngoc</i>	
Superdirective Arrays with Finite-Length Dipoles: Modeling and New Perspectives	6517
<i>Konstantinos Dovelos, Stylianos D. Assimonis, Hien Quoc Ngo, Michail Matthaiou</i>	
Experimental Demonstration of Nanoscale Digital Receiver with Carbon Nanotube.....	6523
<i>Keita Funayama, Hiroya Tanaka, Jun Hirotsu, Keiichi Shimaoka, Yutaka Ohno, Yukihiro Tadokoro</i>	
Multitask Antenna Array for 5G NR Handsets	6529
<i>T. H. Brandão, H. R. D. Filgueiras, S. Arismar Cerqueira</i>	

Frequency Diverse Array Spatial Data Focusing for High Precision Range-Angle-Based Geocasting.....	6535
<i>Gylian Molineaux, François Horlin, Philippe De Doncker, Julien Sarrazin</i>	
Content-Aware Routing Based on Cached Content Prediction in Satellite Networks.....	6541
<i>Jin Tang, Jian Li, Lan Zhang, Kaiping Xue, Qibin Sun, Jun Lu</i>	
Analyzing Age Performance of Hybrid-ARQ: A Unified Explicit Result	6547
<i>Aimin Li, Shaohua Wu, Yajing Deng, Jian Jiao, Ning Zhang, Qinyu Zhang</i>	
Hierarchical Deep Q-Learning Based Handover in Wireless Networks with Dual Connectivity	6553
<i>Pedro Enrique Iturria-Rivera, Medhat Elsayed, Majid Bavand, Raimundas Gaigalas, Steve Furr, Melike Erol-Kantarci</i>	
Adaptive Finite Blocklength for Low Access Delay in 6G Wireless Networks.....	6559
<i>Yixin Zhang, Wenchi Cheng, Wei Zhang</i>	
Sum Capacity Maximization in Multi-Hop Mobile Networks with Flying Base Stations	6565
<i>Mohamadsaleh Nikooroo, Omid Esrafilian, Zdenek Becvar, David Gesbert</i>	

Author Index