

2024 16th International Conference on Wireless Communications and Signal Processing (WCSP 2024)

**Hefei, China
24-26 October 2024**

Pages 1-763



**IEEE Catalog Number: CFP2470H-POD
ISBN: 979-8-3503-9065-0**

**Copyright © 2024 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:	CFP2470H-POD
ISBN (Print-On-Demand):	979-8-3503-9065-0
ISBN (Online):	979-8-3503-9064-3

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

The Sixteenth International Conference on Wireless Communications and Signal Processing (WCSP 2024)

Table of Contents

Preface.....	xix
Organizing Committee	xx

➤ Information, Coding, and Learning Symposium

MRIB: Robust Task-Oriented Communication for Multi-Device Scenarios.....	1
<i>Yue Cao, Ruihao Guo, Shuai Ma, Yuanming Shi, Feng Tian, Youlong Wu</i>	
Fundamental Limits of Covert Communications Covered by Randomly Activated Overt Users	7
<i>Bichen Kang, Neng Ye, Jianping An</i>	
Low-Latency High-Throughput Decoder of QC-LDPC Codes by Matrix Splitting	13
<i>Xinyu Zhong, Shuaicong Gong, Ming Jiang, Chunming Zhao</i>	
FedSMW: Server-side Model Watermark Framework for Model Ownership Verification in Federated Learning	18
<i>Yang Cao, Hao Fang, Bin Chen, Xuan Wang, Shu-Tao Xia</i>	
Pruning Path Min-Sum Decoding Algorithm for High-Rate Non-Binary LDPC Codes	24
<i>Liyuan Song, Hanxiang Yu, Xiaosong Zhang, Ruoyang Qi, Yi Wu</i>	
Merged-r Luby Transform Coded Computation for Non-Linear Tasks in Wireless Networks.....	30
<i>Borui Fang, Li Chen, Weidong Wang</i>	
A Cyclic Placement Strategy for Multi-Access Coded Caching.....	36
<i>Zeru Chen, Nan Liu, Wei Kang</i>	
Distributed Deep Convolutional Network: A Generalized SVD Perspective	42
<i>Yi Ding, Junpeng Shi, Shuyun Shi, Jialong Qian, Qinxiang Chen</i>	
Reliability vs Stability: Polar Code Construction Based on Varentropy under the Successive Cancellation List Decoding.....	48
<i>Zhenwei Wang, Ling Liu, Baoming Bai</i>	
Client Selection for Federated Learning Against Poisoning Attacks on Non-IID Data.....	54
<i>Chen Wang, Hongguang Sun, Xuebo Wang, Yi He, Hongming Zhang</i>	
An Unequal Error Protection Scheme for Neural Network Parameters	60
<i>Jiahang Xu, Xiaohui Chen, Huarui Yin</i>	

Refined Parity-Check Polar Codes from PAC Codes with Lower Complexity	66
<i>Cheng Shi, Xiaofu Wu</i>	
Coded Caching with Area-based User Combinations.....	72
<i>Liwen Liu, Kai Huang, Jinbei Zhang, Kechao Cai, Jiangwei Sui</i>	
Fisher-Robust Information Bottleneck for Task-Oriented Communication with Noisy Data	78
<i>Jielin Zhu, Youlong Wu, Dingzhu Wen, Xuan Liu, Liqun Fu, Yuanming Shi</i>	
Design Methodologies of Physical Layer Artificial Intelligence Technologies.....	84
<i>Shuangfeng Han, Xiaoyun Wang, Xiang Chen, Gang Li, Xiaozhou Zhang, Zhiming Liu, Zirui Wen, Guangyi Liu</i>	
Design of Spatially Coupled LDPC Codes with Girth at Least 8.....	90
<i>Yuxiang Zhou, Jian Fang, Baoming Bai, Min Zhu</i>	
Fast Erasure Decoding of Reed-Solomon Codes Based on Decomposition of Vandermonde Matrix.....	96
<i>Zebing Lin, Jingjie Lv, Pingping Li, Linqi Song, Hui Liang, Hanxu Hou</i>	
Communication Efficiency of Summation over a Two-layer Quantum MAC	102
<i>Huaming Mai, Wenkang Cen, Jinbei Zhang, Kechao Cai</i>	
Secrecy Rate-Distortion Tradeoff for Integrated Sensing and Communication with an Untrusted Sensing Node.....	109
<i>Qi Gong, Yao Liu, Min Li, Lawrence Ong</i>	
On the Performance Bounds of Steganographic Polar Codes.....	115
<i>Haocheng Fu, Yun Cao, Xiaolei He</i>	
Auto-encoders in PHY: Principles and Challenges.....	121
<i>Yingzhe Mao, Yanqun Tang, Zhengpeng Wang, Jingliang He</i>	
Constructing Random QC-LDPC Codes Based on the Relationship Between 8-Cycles and Trapping Sets.....	127
<i>Shirong Lv, Guohua Zhang, Defeng Ren</i>	
Detecting Diverse Poisoning Attacks in Federated Learning Based on Joint Similarity	133
<i>Jieyi Deng, Siying Liu, Congduan Li</i>	
Training Quantum Self-Attention Model in Near-Term Quantum Computer	139
<i>Junyuan He, Yin Kan, Cheng Xue</i>	
Near-lossless Compression of Two Independent Binary Sources with One Encoder.....	145
<i>Tingting Zhu, Xiao Ma</i>	
Applications of Large-Scale Quantum Neural Networks Based on Distributed Quantum Computing	151
<i>Yin Kan, Junyuan He, Cheng Xue</i>	
➤ Wireless Channel, Transmission, and Access Symposium	
Interference Management for IRS-NOMA Networks via Constructive Interference	157
<i>Ke Cui, Wei Wang, Chao Dong, Nan Zhao, Qihui Wu, Dusit Niyato</i>	
A Deep Learning-Based Method for Open-set Wireless Signal Detection in HF Band	163
<i>Huang Lin, Xuchu Dai, Chongfa Wang</i>	

CKM-Based Environment-Aware Pilot Reuse and Channel Estimation	169
<i>Yuelong Qiu, Di Wu, Yong Zeng</i>	
Joint Design of Trajectory and Near-Field Beamforming for STAR-RIS-Enabled ISAC	175
<i>Qiulei Huang, Zhaojun Song, Zehui Xiong, Guanjun Xu, Nan Zhao, Dusit Niyato</i>	
Joint Transmit and Reflective Beamforming for Multi-Active-IRS-Assisted Cooperative Sensing	181
<i>Yuan Fang, Xianghao Yu, Jie Xu</i>	
Self-Sustainable IRS Assisted Covert Communications: Analysis and Optimization	187
<i>Manlin Wang, Chunqi Chen, Xing Lv, Bin Xia</i>	
Uplink Transmission of Local RIS Data Using Orthogonal Polarizations	193
<i>Fumin Wang, Hao Huang, Guan Gui, Hikmet Sari</i>	
A New Extrapolation Solution for MU-MISO Symbol-Level Precoding.....	199
<i>Mu Liang, Ang Li, Xiaoyan Hu, Christos Masouros</i>	
SIMRP: Self-Interference Mitigation Using RIS and Phase Shifter Network.....	205
<i>Wei Zhang, Ding Chen, Bin Zhou, Yi Jiang, Zhiyong Bu</i>	
Detection of Visible Region in Ultra-Large-Scale RIS-Assisted mmWave Communication Systems	211
<i>Ying Hu, Yuxing Lin, Xiao Li, Shi Jin</i>	
Resource Allocation based on Clustered Interference Alignment with Redundant User Extraction in Ultra-Dense Networks.....	217
<i>Qirui Xu, Junhui Liu, Shihao Zhu, Ming Zhao, Wuyang Zhou</i>	
A Joint Design of Hybrid Beamforming and Multi-Tap Cancellation for Full-Duplex mmWave MIMO Systems	223
<i>Yunfei Wang, Jianing Zhao, Xinping Xia, Xuenan Ni</i>	
Robust Adaptive Beamforming with Projection-Based Covariance Matrix Reconstruction under Colored Noise.....	229
<i>Mingzhao Rao, Yuan Jiang, Lei Zhao, Xinghua Sun</i>	
UAV Access Control for Urban Emergency Communications in Space-Air-Ground Integrated Networks.....	235
<i>Guiyang Xia, Hao Xu, Xiaobo Zhou, Meng Hua, Jiangzhou Wang</i>	
Joint Beamforming and User Association Design in Active RIS-Aided Cell-Free URLLC System.....	242
<i>Yuanmeng Song, Yu Qian, Li Chen, Zhiyu Yan, Feng Shu, Pengcheng Zhu</i>	
Sensing-Assisted Orbital-Angular-Momentum Communications for Anti-Jamming.....	248
<i>Liping Liang, Wenchi Cheng, Kexin Zheng, Zhuohui Yao, Ruirui Chen, Wei Zhang</i>	
Measurement-Based Channel Characterization and Modeling for 5G-Railways at 2.16 GHz.....	254
<i>Xuejian Zhang, Ruisi He, Mi Yang, Shuaiqi Gao, Ziyi Qi, Zhengyu Zhang, Bo Ai, Zhangdui Zhong</i>	
Channel Characteristics-Based Domain Adaptation for Multiuser MISO Beamforming Design	260
<i>Xiaokai Ge, Xuchu Dai</i>	
An Efficient Cluster-Based Asynchronous Activity Detection Algorithm for Cell-Free Massive MIMO Systems	266
<i>Chenhao You, Ziheng Li, Tong Wang, Lin Gao, Yufei Jiang</i>	

Spatial-Temporal Beam Prediction: A Deep Learning-Based Approach with Compressed Multi-Beam Measurements...	272
<i>Shiyue Wang, Wei Chen, Wen Li, Yuanyuan Zhang, Xiaofang Sun, Bo Ai</i>	
A Consensus Averaging Synchronization Algorithm for Distributed Transmit Beamforming Based on Event-Triggered Updates	278
<i>Li Wentao, Pan Zhiwen, Liu Nan</i>	
Uplink Performance of Stacked Intelligent Metasurface-enhanced Cell-Free Massive MIMO Systems.....	283
<i>Enyu Shi, Jiayi Zhang, Yiyang Zhu, Bo Ai, Chau Yuen</i>	
Resource Allocation in A Dual-Sensor Update System for Age of Information Minimization	289
<i>Tianqing Yang, Zhengchuan Chen, Min Wang, Zhong Tian, Chaowei Tang</i>	
Trade-off for Terahertz Beam Squint Enabled ISAC System	294
<i>Yilong Liu, Jun Zhang, Yu Han, Jue Wang, Shi Jin, Xiao Li</i>	
Indoor Measurements and Analysis at 13 GHz with a Massive SIMO Channel Sounder	299
<i>Xuehan Jiang, Xianling Wang, Yingyujiao Huang, Yanbo Zhai, Zhiyuan Jiang</i>	
Low-Overhead Channel Estimation for Beyond Diagonal Reconfigurable Intelligent Surface Aided Single-User Communication	305
<i>Rui Wang, Shuowen Zhang, Liang Liu</i>	
Channel Scenario Identification under Varying SNR Conditions Using Transfer Learning.....	311
<i>Zhaowei Guan, Chen Wang, Peiran Wu, Xinang Li, Xingcheng Liu, Minghua Xia</i>	
An Online Approach to Balancing the Energy Consumption for IoT Sensors in UAV-based MEC Systems.....	318
<i>Yang Li, Xiaohui Lin, Suzhi Bi, Mingjun Dai, Gongchao Su</i>	
Plane Wave Generator Design for Base Station Testing at FR3	324
<i>Siqi Duan, Weimin Wang, Yongle Wu, Yuanan Liu, Wei Fan</i>	
Multi-Scenario U6G Channel Measurement and Angular Characterization.....	330
<i>Zhengtao Jin, Jiachen Tian, Yu Han, Xiao Li, Shi Jin</i>	
Task-oriented Feature Re-encoding and Forwarding for Relay-assisted Device-edge Co-inference	336
<i>Yuchen Zhang, Suzhi Bi, Xian Li, Xiaohui Lin</i>	
Sub-6 GHz to 5G-Advanced: Multifrequency Channel Measurements, Modeling, and Characteristics Analysis.....	341
<i>Yiwen Wang, Xiaolong Wang, Weimin Wang, Yongle Wu, Yuanan Liu, Wei Fan</i>	
Spatial Bandwidth of Bilateral Near-Field Channels for Linear Large-Scale Antenna Array System	348
<i>Zhen Wang, Yijin Pan, Jun-Bo Wang, Yijian Chen, Hongkang Yu</i>	
A User-driven Sleep and wake-up Technology for Energy-Efficient 5G-Advanced Base Stations	354
<i>Xiangzhi Guo, Xiaohui Chen, Weidong Wang, Sihai Zhang</i>	
Performance Analysis of Multi-RIS-Aided Fluid Antenna Systems under Nakagami-m Fading Channels.....	360
<i>Gaoyang Wang, Jun Zhang, Kaizhe Xu, Yiyang Ni, Yi Wu</i>	

A Novel Multiple-Input Multiple-Output OCDM Transmission System Based on Index Modulation	365
<i>Shutong Feng, Zhouhao Li, Tengxiao Wang, Wei Deng, Yili Xia, Wenjiang Pei</i>	
Machine Learning Enables Uplink Interference Suppression in RIS-Aided Proactive Mobile Network.....	371
<i>Qianyu Wang, Xiong Li, Qimei Cui, Bowen Zhao</i>	
The Analysis of Channel Capacity in Reconfigurable Intelligent Surface-Aided Wireless Communication Systems	378
<i>Qi Zhang, Zhengyu Wang, Rujing Xiong, Tiebin Mi, Robert Caiming Qiu</i>	
Channel-Estimation-Free Gradient Aggregation for OFDM Over-the-Air Federated Learning	383
<i>Zihang Zeng, Chenxi Zhong, Xiaojun Yuan</i>	
Transmission Design for STAR-RIS Assisted Dual-User Uplink MIMO Based on Statistical CSI.....	389
<i>Mingyang Niu, Jun Zhang, Kaizhe Xu, Yu Han, Shi Jin, Xiao Li</i>	
Mixed Attention Transformer Enhanced Channel Estimation for Extremely Large-Scale MIMO Systems	394
<i>Shuangshuang Li, Peihao Dong</i>	
Probe Selection Method Based on Context Channel Information for 5G MIMO OTA Testing in Dynamic Channel Environment	400
<i>Ruichen Li, Nan Ma, Kaiheng Zhang, Xiaoqi Qin, Huigang Chang, Fengmin Tang</i>	
Spatiotemporal Modeling of Cellular-Connected UAV Networks with NOMA Scheme.....	406
<i>Yueyu Ti, Hongguang Sun, Jingkai Hou, Hongming Zhang, Shuqin Li</i>	
Cooperative Multi-Agent Reinforcement Learning-Based Wi-Fi Multiple Access.....	413
<i>Yifan Fan, Jiaming Yu, Hao Ye, Le Liang, Shi Jin</i>	
Variable-Length XP-HARQ for URLLC	419
<i>Jiahui Feng, Zheng Shi, Yaru Fu, Hong Wang, Guanghua Yang, Shaodan Ma</i>	
Denoising Diffusion Model-Based Channel Estimation in IRS-Assisted ISAC Systems	425
<i>Lan Yi, Jiansong Miao, Tao Zhang, Zhenhui Yuan, Jiawen Kang, Dusit Niyato</i>	
Learning End-to-End Precoding for Time-Varying Channels with Graph Neural Networks	431
<i>Jiarui Liu, Tingting Liu, Chenyang Yang</i>	
Multiuser Interference Suppression: A Generalized Nearest Neighbor Decoding Approach	438
<i>Shuqin Pang, Wenyi Zhang</i>	
User Activity Detection, Channel Estimation and Sensing Parameter Estimation in Cell-Free Massive MIMO Systems	444
<i>Tianyu Zhao, Shuyi Chen, Ruoyu Zhang, Hsiao-Hwa Chen, Qing Guo, Weixiao Meng</i>	
VCOMP: An Efficient Probe Selection Method for 5G OTA Testing with MPAC Setup	450
<i>Zhaoting Li, Nan Ma, Xiaoqi Qin, Huigang Chang, Nan Li</i>	
Channel Estimation for XL-IRS Assisted Wireless Systems with Double-sided Visibility Regions.....	456
<i>Chao Zhou, Changsheng You, Shiqi Gong, Bin Lyu, Beixiong Zheng, Yi Gong</i>	

Rate Grouping based Non-Orthogonal Random Access Aided by Online Traffic Load Prediction	462
<i>Huan Su, Jie Huang, Ming Zhao, Jinkang Zhu</i>	
Performance Analysis of UAV-enabled Multi-pair Massive MIMO-NOMA Systems with Mixed-ADCs/DACs.....	468
<i>Hui Chen, Jinwen Li, Xingwang Li, Lehua Jiang</i>	
Two-Dimensional Information Preamble Multiplicity Detection in Cell-Free Massive MIMO Systems	474
<i>Jiamin Li, Ziyi Zhang, Jie Wang, Pengcheng Zhu, Dongming Wang</i>	
Joint Symbol-Level Precoding and Antenna Selection Optimization for Multiuser MIMO Systems	479
<i>Xiaojing Chen, Xinglong Xiao, Tao Yu, Shunqing Zhang</i>	
A Two-stage Scheme for Efficient RIS-Assisted Massive MIMO Sparse Channel Representation and Recovery	484
<i>Wenkai Liu, Nan Ma, Jianqiao Chen, Kaiheng Zhang, Ke Peng</i>	
Dynamic User Clustering for MIMO-NOMA Network: Deep Reinforcement Learning Approach	490
<i>Jiang Chang, Shihao Zhu, Qingzheng Tang, Ming Zhao, Jinkang Zhu</i>	
Achievable Rate Analysis of UAV-mounted RIS-Assisted Link with UAV 3D Location Variation	496
<i>Yuqing Liu, Zaichen Zhang, Baiping Xiong, Hao Jiang, Yuechao Li, Liang Wu</i>	
Hannan Limitation for 3D Antenna Array	501
<i>Ran Ji, Chongwen Huang, Xiaoming Chen, Wei E. I. Sha, Zhaoyang Zhang, Jun Yang, Kun Yang, Chau Yuen, Mérouane Debbah</i>	
Theoretical BER Analysis for FBMC/QAM Signals.....	507
<i>Defeng Ren, Ting Wang, Yufeng Zhang, Bo Ma, Rongchang Jing, Jing Li</i>	
Joint Activity Detection and Channel Estimation for Massive Connectivity: An Information Geometry Approach ...	512
<i>Mingrui Fan, An-An Lu, Xiqi Gao</i>	
Deep Unrolling-Based Joint Active User Detection and Channel Estimation in Distributed Antenna Systems	518
<i>Junhui Liu, Qirui Xu, Shihao Zhu, Ming Zhao, Wuyang Zhou</i>	
Beam Structured Channel Estimation for Massive MIMO with Beam Completion	524
<i>Haohao Li, Bingyan Liu, An-An Lu, Xiqi Gao</i>	
Stochastic Geometry-Based Modelling and Analysis of Vehicular Networks: Supporting V2V and Visual Collaborative Environment Sensing.....	530
<i>Chunyu Shi, Xiaoshi Song, Huimin Wei, Liying Tian, Pan Li</i>	
Non-Negative Least Squares Exploiting Multiple Measurements in Unsourced Random Access.....	536
<i>Qianqian Sun, Zhentian Zhang, Jian Dang, Zaichen Zhang</i>	
➤ Wireless Networking, Services, and Security Symposium	
Joint Beamforming Design for Semi-IRS-Aided Secure ISAC with Assistance of Sensing.....	543
<i>Wenjing Wei, Xiaowei Pang, Xiaoqi Qin, Chengwen Xing, Nan Zhao, Dusit Niyato</i>	
Adversarial Attack Based-on Transferability for Specific Emitter Identification.....	549
<i>Shaolong Liu, Tao Zhang, Jiang Zhang, Xiaoqiang Qiao, Hao Wu, Yihang Du</i>	

Lightweight RF Fingerprint Identification Using Cross Modal Knowledge Distillation: Learning from Wired to Wireless	554
<i>Yi Liu, Ning Gao, Yongyong Chen, Michail Matthaiou, Xiao Li, Shi Jin</i>	
Vision-Radar Fusion-Based Dynamic Sparse Intrusion UAV Detection for Low-Air Security	560
<i>Yiyao Wan, Jiahuan Ji, Fuhui Zhou, Qihui Wu, Tony Q. S. Quek</i>	
Channel-Aware Rotating Priority Queue Scheduling with Delay Deadline over Wireless Links	566
<i>Yankai Zhang, Wei Wang, Xinglin Yang, Yitu Wang, Wenkai Zhang, Zhaoyang Zhang</i>	
Physical Layer Authentication Based on CNN-GAN.....	572
<i>Wei Xie, Hongjun Wang, Zimo Feng, Chunlai Ma</i>	
Secure Transmission for Movable Antennas Empowered Cell-Free Symbiotic Radio Communications	578
<i>Jiayu Guan, Bin Lyu, Yan Liu, Feng Tian</i>	
Energy-Efficient Access Point Sleep Control in User-Centric Cell-Free Massive MIMO Systems.....	585
<i>Wen Li, Yanxiang Jiang, Yige Huang, Fu-Chun Zheng</i>	
Cross-Channels Identification for Specific Emitters Using Global and Local Semantic Consistency	591
<i>Fan Wang, Hong Wan, Xinyi Shi, Sen Wang, Zhiyi Lu, Guan Gui</i>	
Optimizing Handovers in Integrated 5G UAV Networks: A Core-RAN Co-location Approach.....	596
<i>Yue Jiang, Houze Liang, Xijun Wang, Xiang Chen, Xiao Huang</i>	
Enhanced Specific Emitter Identification Using Multi-Sampling Convolutional Attention Network.....	602
<i>Huanyu Cao, Xue Fu, Peng Yin, Yu Wang, Hao Huang, Shengnan Shi, Guan Gui</i>	
Lightweight Regularized Multi-Label Indoor Human Activity Recognition with CSI Fingerprints	608
<i>Fucheng Miao, Youxiang Huang, Wenjie Qian, Zhiyi Lu, Yun Lin, Guan Gui</i>	
Joint Task Offloading and Service Caching for Vehicular Edge Computing with Energy Constraints	613
<i>Yifan Gao, Haixia Zhang, Qianqian Liu, Yiqin Deng</i>	
Coverage Performance Analysis of Satellite-terrestrial Integrated Radio Access Networks.....	619
<i>Yaohua Sun, Shi Yan, Ruiwen Li, Mugen Peng</i>	
Information Importance-Aware Defense against Adversarial Attack for Automatic Modulation Classification: An XAI-Based Approach	626
<i>Jingchun Wang, Peihao Dong, Fuhui Zhou, Qihui Wu</i>	
Energy-efficient Spectrum Sharing for Cellular V2X Communications	632
<i>Yuxin Zhu, Lin Zhu, Wengi Yang, Yi Gong, Junhui Zhao</i>	
Wideband Beamforming in Near-Field Uniform Planar Array Systems Under TTD Constraints.....	637
<i>Chenxi Zhang, Xiaoming Wang, Rui Jiang, Ting Liu, Youyun Xu</i>	
Radio Frequency Fingerprint Extraction Scheme Based on Nonlinear Characteristics in Low SNR Environment....	643
<i>Yu Wu, Yijin Pan, Gengyi Liu, Jun-Bo Wang</i>	
Game-Theoretic Deep Reinforcement Learning for Task Offloading in Heterogeneous MEC Systems	649
<i>Han Yu, Haie Dou, Xinmian Xu, Jingwu Cui, Lei Wang, Chen Liu</i>	

Semi-passive Intelligent Reflecting Surfaces Aided Channel Estimation for Vehicular Networks	654
<i>Yifan Sun, Hang Zhou, Yingxuan Guo, Celimuge Wu, Junhui Zhao</i>	
Dual-Scale Cellular Traffic Prediction Based on FastDTW for Graph Neural Network.....	660
<i>Junrong Jia, Haixia Zhang, Xiaotian Zhou</i>	
Knowledge-Data Hybrid-Driven Low-Energy Resource Allocation in Cellular Networks.....	666
<i>Chunlong Niu, Chenxi Zhao, Min Sheng, Junyu Liu, Jiandong Li</i>	
PLMS: A Packet Loss Memory-based Transmission Enhancement Scheme for GEO Satellite Networks	672
<i>Qiuqing Long, Yuanxin Yan, Jian Li, Jiangping Han, Jin Tang, Kaiping Xue</i>	
Edge-Featured Graph Attention Network for Power Control in Cell-Free and D2D Heterogeneous Networks	678
<i>Dewen Yan, Yanpeng Dai, Ling Lyu, Nan Cheng</i>	
A Lightweight and Anonymous MAKE for LDACS.....	684
<i>Pengtao Liu, Tong Bai, Zhiqiang Dan, Shujing Wang, Zhipeng Wang, Yanbo Zhu</i>	
Performance Analysis of Machine Learning on Homomorphically Encrypted Data.....	691
<i>Morogo Freshina Mahatho, Yueshan Chen, Sihai Zhang</i>	
Digital Nonlinear Distortion Compensation for Rydberg Atomic Receiver with Quadrature Amplitude Modulation	697
<i>Yifan Xia, Ming-Min Zhao, Min Li, Ming Lei, Minjian Zhao</i>	
Joint Computation Offloading and Multi-User Scheduling for Max-Latency Minimization in MEC-Aided Cell-Free Networks.....	703
<i>Yanzan Sun, Xueyang Jiang, Guangjin Pan, Shunqing Zhang, Shugong Xu</i>	
Real-Time Malicious Traffic Detection based on Frequency Domain Features	709
<i>Jiachen Wu, Yang Liu</i>	
A Scheme for Authentication and Traceability of 5G Mobile Terminal Based on IPv6 and Blockchain	715
<i>Xinsheng Ji, Ying Zhao, Xingxing Liao, Jie Yang, Chunxiao Wang</i>	
➤ Convergence of Sensing, Communication, and Computing Symposium	
Secure Beamforming Design Based on Multistatic Cooperative Sensing via IRS.....	722
<i>Xianglin Yu, Jinlei Xu, Xiaoqi Qin, Jie Tang, Xu Jiang, Nan Zhao, Dusit Niyato</i>	
Target Parameter Estimation for PMCW Radar Equipped with One-Bit Mod-ADC-K	728
<i>Zhi Zhen, Yuanbo Cheng, Xinnan Zhang</i>	
Joint Waveform and Passive Beamforming Design for IRS-Aided ISAC via Deep Unfolding	734
<i>Jifa Zhang, Mingqian Liu, Jie Tang, Nan Zhao, Dusit Niyato, Xianbin Wang</i>	
UAV-Enabled Over-the-Air Asynchronous Federated Learning	740
<i>Zhiyuan Zhai, Xiaojun Yuan, Xin Wang</i>	
FSOS-AMC: Few-Shot Open-Set Learning for Automatic Modulation Classification.....	746
<i>Hao Zhang, Fuhui Zhou, Qihui Wu, Chau Yuen</i>	

3D Handwriting Trajectory Recovery by Wireless Sensing with Commercial LTE Signals	752
<i>Yuxin Wang, Rui Peng, Yafei Tian</i>	
DRL based on Priority Evaluation for Collaborative Perception Task Offloading in Internet of Vehicles.....	758
<i>Xiaoge Huang, Caiwei Yu, Wenjing Li, ChengChao Liang, Qianbin Chen</i>	
Integrated Sensing and Communication with Nested Array: Beam Pattern and Performance Analysis	764
<i>Hongqi Min, Chao Feng, Ruoguang Li, Yong Zeng</i>	
Multi-UAV-Enabled Integrated Sensing and Communications: Joint Beamforming and UAV Placement Design	770
<i>Weihang Ding, Zixiang Ren, Yuan Fang, Ling Qiu, Jie Xu</i>	
Joint Scatterer and AoA Map Construction Based on Limited Channel Measurements.....	776
<i>Yezhan Sun, Yuhang Yang, Xiaoli Xu, Yong Zeng</i>	
A Multi-Feature Time-Series Data Generation Method for LEO Electromagnetic Monitoring Systems	782
<i>Yuxuan Yang, Boyu Deng, Jingchao Wang, Jizheng Sun, Tuo Yang, Xiaoyu Zhang</i>	
Integrated Optical Sensing, Communication, and Computation System for Quadruped Robots	789
<i>Chen Zhu, Zhouxiang Zhao, Jianrong Bao, Zhaojun Yang, Chongwen Huang, Zhaoyang Zhang</i>	
STAR-RIS-enabled anti-Jamming Design for Secure Integrated Sensing and Communication Systems	795
<i>Zhongyi Xie, Hongyi Bian, Yu Yao, Zhe Zhang, Feng Shu</i>	
MM-DCDR: A Benchmark of Device Configuration and Data Representation For mmWave-based Human Sensing	801
<i>Yating Gao, Ruixu Geng, Dongheng Zhang, Yang Hu, Hui Lin, Yan Chen</i>	
A Bayesian Optimization Approach for Online System Configuration of Edge Video Analytics	807
<i>Haowen Tang, Suzhi Bi, Shuoyao Wang, Xiaohui Lin, Yifan Gu, Zhi Quan</i>	
Near-Field Attitude and Location Estimation Based on Partitioned Large-Scale Antenna Array	813
<i>Mingchen Zhang, Boyu Teng, Yuqing Zheng, Xiaojun Yuan</i>	
Energy Efficient Image Transmission over Semantic Communication Enabled UAV Swarm Networks	819
<i>Yixiao Feng, Yining Wang, Bo Zhang, Huadong Dai</i>	
Impacts of Blockages on UAV-Enabled Integrated Sensing and Communications.....	825
<i>Chengguang Liu, Chenxi Liu, Wenyun Chen, Mugen Peng</i>	
Performance Analysis of Service Caching in Large-Scale UAV-Enabled Wireless Networks with Coupled Uplink and Downlink	832
<i>Rui Ma, Chenxi Liu, Howard H. Yang, Mugen Peng</i>	
Joint Target Estimation, Channel Estimation, and Symbol Detection for ISAC Systems	839
<i>Beiyan Liu, Hong Shen, Zhou Yang, Wei Xu, Chunming Zhao</i>	
Hybrid CRB Analysis for Location Sensing in UAV mmWave Systems under Jittering Effects	845
<i>Wenyun Chen, Chenxi Liu, Mugen Peng</i>	
Intelligent Reflecting Surface Can Be A Passive Anchor to Localize Near-Field and Far-Field Targets	851
<i>Qipeng Wang, Weifeng Zhu, Shuowen Zhang, Boya Di, Liang Liu</i>	

STAR-RIS and UAV Combination for Simultaneous Task Offloading and Communications in MEC Networks	857
<i>Han Xiao, Xiaoyan Hu, Wenjie Wang, Zhou Su, Kai-Kit Wong, Kun Yang</i>	
Adaptive Modulation and Coding Techniques Based on Reinforcement Learning	863
<i>Haozhe Gu, Ningyan Guo, Tianyu Xue, Qixun Zhang</i>	
CI-Based Block-Level Precoding for ISAC System.....	869
<i>Yiran Wang, Xiaoyan Hu, Ang Li, Kai-Kit Wong, Kun Yang</i>	
A Novel Modulation Classification Scheme Based on Meta-Transfer Learning with Limited Samples.....	875
<i>Shuzhen Shi, Mingyue Si, Wensheng Zhang, Jian Sun, Cheng-Xiang Wang</i>	
Hybrid Beamforming Design for Wideband Near-Field ISAC with Delay Alignment Modulation.....	881
<i>Xuanrui Zhang, Wan Xiang, Yawen Chen, Wei Zheng, Zhaoming Lu, Xiangming Wen</i>	
Distribution on the Pareto Boundary for Integrated Sensing and Communication System.....	887
<i>Shuaijun Wang, Li Chen, Huarui Yin, Weidong Wang</i>	
Fast Fractional Programming for Multi-Cell Integrated Sensing and Communications	894
<i>Yannan Chen, Yi Feng, Xiaoyang Li, Licheng Zhao, Kaiming Shen</i>	
Fluid Antenna-enabled Integrated Sensing, Communication, and Computing Systems.....	900
<i>Yiping Zuo, Jiajia Guo, Weicong Chen, Weibei Fan, Biyun Sheng, Fu Xiao, Shi Jin</i>	
Joint Trajectory and Transmit Beamforming Design for UAV-enable Integrated Sensing, Communication and Computing	906
<i>Jinyu Wang, Xianchao Zhang, Fengsong Sun, Zhiqing Wei</i>	
A Non-Cooperative Transmitter Localization Algorithm Based on Deep Learning with Time-Frequency and Spatial Angular Information	912
<i>Zhao Zhang, Jian Sun, Wensheng Zhang, Cheng-Xiang Wang</i>	
➤ Optical, Satellite, Aerial, and Underwater Communication Symposium	
Optimizing Age of Information for Multi-Antenna Aided Covert Communications	918
<i>Yue Ma, Ruiqian Ma, Zhi Lin, Ruoyu Zhang, Chen Miao, Wen Wu</i>	
AoI-aware UAV Data Collection Based on the IRS's Phase Estimation in Wireless Sensor Networks	924
<i>Jiaqi Tang, Juan Liu, Xiaofan He, Lingfu Xie, Long Qu</i>	
Dynamic Resource Allocation in Integrated Terrestrial-Satellite Networks: An Elastic Decision Transformer Approach	931
<i>Jun Li, Lieran Ying, Changxu Ni, Jie Zhang, Ting Ma, Guangji Chen</i>	
Multi-Functional RIS-Aided Anti-Jamming Communication in Semantic Integrated Satellite-Ground Networks	937
<i>Yifu Sun, Kang An, Yuanzhi He, Haotong Cao, Xudong Zhong, Kefeng Guo, Hongbo Zhu</i>	
Sensing-Communication-Security Enhanced Integrated Satellite and Terrestrial Network with Active Reconfigurable Intelligent Surface.....	943
<i>Chao Ren, Junjie Xu, Haijun Zhang, Chunlei Sun</i>	
Design and Analysis of Raptor Codes based Inter-Satellite Transmission Schemes for LEO Satellite Networks	949
<i>Yuhan Zhang, Cunqing Hua, Lingya Liu</i>	

Analysis of Sliding-Correlation Frame Synchronization for Visible Light Communication with Signal-Dependent Noise.....	955
Jiajia Tang, Nuo Huang, Tao Lv, Chen Gong	
Linear Precoding for Faster-Than-Nyquist Signaling with Imperfect Channel State Information.....	962
Yan Wang, Qiang Li, Yingsong Li, Liping Li, Xingwang Li	
Spatiotemporal Traffic Prediction Based on Graph Convolutional Network for LEO Satellite Networks.....	968
Yuhan Zhang, Cunqing Hua, Lingya Liu	
LEO Satellite Constellation Design for Regional Coverage Based on Beam Hopping.....	974
Tianle Liao, Shaohua Wu, Yifei Qiu, Qinyu Zhang	
Opponent Modeling Based Dynamic Auction for UAV-Assisted Task Offloading.....	980
Shuyu Wang, Zhe Wang, Long Shi, Bin Li, Jun Li	
Amplitude Determined Pulse Counting Based Wide Dynamic Range Signal Detection for UOWC with PMT Detector	987
Tong Wang, Weijie Liu, Nuo Huang, Zhengyuan Xu, Yuwei Chen	
Joint Doppler and Angle Tracking for LEO Satellite Communications Exploiting Orbit Characteristics.....	993
Chenlan Lin, Xiaoming Chen, Zhaoyang Zhang	
Attention-Enhanced Rainbow DQN for Cell Reselection in Satellite Communication Networks	999
Zijian Yang, Ming Zeng, Zesong Fei	
Dynamic Deployment for User-Centric Multi-UAVs Communications with Fairness Consideration	1006
Simeng Feng, Kai Liu, Yidi Zhao, Nian Li, Chao Dong, Lei Zhang, Qihui Wu	
LDA-Based Signal Detection Method for Underwater Optical Wireless Communication System with PMT Receiver	1013
Jiangxin Lu, Nuo Huang, Weijie Liu, Zhengyuan Xu	
Exploring the Throughput Capacity Limits of LEO Satellite Constellation Networks: Mathematical Models and Analysis	1019
Lei Guo, Min Sheng, Junyu Liu, Jiandong Li	
Joint Power and Trajectory Control for Integrated Satellite-USV-Terrestrial Maritime Rescue System	1025
Cheng Zeng, Jun-Bo Wang, Yijin Pan, Penghui Zhang, Yijian Chen, Hongkang Yu, Chuanwen Chang, Anzheng Tang	
Satellite Transmission with Joint Source-Channel Coding under Stochastic Processes.....	1031
Yilan Guo, Chiya Zhang, Yuanxiang Gong, Chunlong He	
Task-Oriented Service Provision and Scheduling for Non-Terrestrial Networks: A Deep Reinforcement Learning Based Approach.....	1037
Yilu Cao, Ziye Jia, Yu Zhang, Chao Dong, Fuhui Zhou, Qihui Wu	
Joint Design for Energy Replenishment and Data Collection in AUV-Based Underwater Wireless Sensor Networks	1043
Menghan Zhao, Fei Ji, Zhangrui Ren, Yingying Zhong, Mingyue Cheng	

Joint Resource Allocation and Data Offloading for Closed-Loop Controls in Satellite-UAV Networks	1049
<i>Chengleyang Lei, Wei Feng, Peng Wei, Yunfei Chen, Ning Ge, Shiwen Mao</i>	
Imperceptible Screen-Camera Communication Based on Inter-Frame Difference and Noise Modeling.....	1056
<i>Junfei Cai, Zaichen Zhang, Bingcheng Zhu, Shengjian Chen</i>	
Universal Modem Generation with Inherent Adaptability to Variant Underwater Acoustic Channels: a Data-Driven Perspective.....	1062
<i>Xiaoquan You, Hengyu Zhang, Xuehan Wang, Jintao Wang</i>	
Joint Trajectory and Resource Allocation Optimization for UAV-assisted Edge Computing	1068
<i>Xinyi Zhang, Xiangbin Yu, Hongfei Cai</i>	
FoV Improvement Through Dual-Lens Fiber Coupling for Optical Mobile Communication Systems	1074
<i>Haotian Ling, Kehan Zhang, Zaichen Zhang</i>	
System Information Feedback Assisted Reconfigurable Intelligent Surface Configuration: Leveraging Deep Reinforcement Learning	1079
<i>Xiaozhen Zhu, Haotong Cao, Zhaojun Li, Longxiang Yang</i>	
An Interference Mitigation Method via Variable Separation Angle between LEO Constellations.....	1084
<i>Yuxin Peng, Jiansong Miao, Fuhao Liu</i>	
A Q-Learning and Fuzzy Logic based Routing Protocol for UAV Networks.....	1090
<i>Sijin Huang, Jie Tang, Zihao Zhou, Guangguang Yang, Maksim V. Davydov, Kai Kit Wong</i>	
Unmanned Aerial Vehicle Assisted Timely Data Collection in IoT Networks with Faulty Sensors.....	1096
<i>Dongliang Zhang, Jie Gong</i>	
An Efficient Graph-Based Approach for Periodic Earth Observation over the Satellite Networks.....	1102
<i>Yaoxu He, Hongyan Li, Peng Wang, Xiaogang Li, Yasheng Zhang, Guangxiang Yang</i>	
Delay-Aware Probabilistic Cache Placement for Scalable Videos in Satellite-Terrestrial Networks	1109
<i>Jiayi Wu, Tianheng Xu, Yuling Ouyang, Jinfeng Tian, Ting Zhou</i>	
Routing Strategy in LEO Satellite Networks: A Multi-Agent Reinforcement Learning Approach.....	1115
<i>Xinru Lian, Qiuyang Zhang, Ying Wang, Ce Guo, Xi Chen</i>	
ECN-Based Packet Loss Differentiation for Adaptive TCP in LEO Satellite Networks.....	1121
<i>Chen Liao, Xingjian Zhang, Qinyu Zhang</i>	
➤ Internet of Things Symposium	
Associative Task Computation Offloading for Industrial Internet of Things	1127
<i>Fan Jiang, Hang Zhang, Lei Liu, Chaowei Wang</i>	
LASA: A Line Anchor Self-Assigned Network for Rail Detection	1133
<i>Zhiming Fang, Ning Sun, Jixin Liu, Lei Chai, Cong Wu</i>	
Return-to-Go Predicting Decision Transformer for Energy-Saving in 5G Base Stations with Photovoltaic Integration	1139
<i>Jun Li, Xiao Yu, Pengcheng Xia, Ting Ma, Jie Zhang</i>	

Layer-Wise Personalized Federated Learning for DAG Blockchain-Enabled Internet of Vehicles	1145
<i>Xiaoge Huang, Wenjing Li, Caiwei Yu, Chengchao Liang, Qianbin Chen</i>	
DFRL-DS: A Diffusion-based Reinforcement Learning Algorithm in Discrete Actions for Base Station Energy-saving Control.....	1151
<i>Jun Li, Jiaheng Li, Pengcheng Xia</i>	
Channel Characteristic Analysis and Modeling of WBAN at 11GHz in Medical Scenario	1157
<i>Lihua Yang, Han Xue, Jiawen Ma, An Ye, Jun Sun</i>	
Active and Passive Beamforming for STAR-RIS Aided ISAC in IoT Networks.....	1163
<i>Sili Wu, Shuyan Hu, Zaichuan Zhang, Xin Wang</i>	
Deep Mean-Kernel Learning for Bayesian Optimization in IoT-Enabled Data Center.....	1169
<i>Jinhui Dou, Bo Cheng, Jinan Li, Yu Sun, Gaoxiang Jiang, Haibo Zhou</i>	
Decformer: A Multi-model Fusion Method Based on Decomposition and Transformer for Industrial Energy Consumption Prediction	1175
<i>Jun Li, Dagang Li, Pengcheng Xia, Yiyang Ni, Yuwen Qian</i>	
RFF Recognition Based on Adaptive Signal Transform and Weighted Feature Fusion	1181
<i>Yiqian Wang, Nan Liu, Zhiwen Pan, Xiaohu You</i>	
STGNNM: Spatial-Temporal Graph Neural Network with Mamba for Cellular Traffic Prediction	1187
<i>Jun Li, Xiangyu Pu, Pengcheng Xia</i>	
Convolutional Deep Unfolding Network for Asynchronous Active User Detection and Channel Estimation.....	1193
<i>Shiyu Liang, Wei Chen, Xiaofang Sun, Tianwei Hou, Jun Fang, Zhangdui Zhong, Bo Ai</i>	
Signal Quality Aware Deep RF Sensing	1199
<i>Changwei Wu, Jinbo Chen, Zhi Lu, Haoyu Wang, Dongheng Zhang, Yang Hu, Qibin Sun, Yan Chen</i>	
Prompt Decision Transformer Based Policy Generalization for Base Station Energy Saving	1204
<i>Jun Li, Yintao Zhu, Pengcheng Xia, Ting Ma, Jie Zhang, Long Shi, Zhenping Zeng, Shi Jin</i>	
Design of Task Distribution and Scheduling Strategies for Data Processingin the Internet of Things.....	1210
<i>Qiang Li, Keqiang He, Xing Guo</i>	
Short-Term Temperature Forecasting Using LSTM-CatBoost Combination Method.....	1217
<i>Shuai Jin, Qiang Li, Sanqiu Liu, Olebogeng Kevin Joel, Xiaohu Ge</i>	
Algorithm for Identifying Critical Nodes in Networks Based on Spectral Clustering to Construct Hypergraphs	1223
<i>Xujie Li, Fei Shao, Haotian Li</i>	
Cut to the Chase: A Fast-Decoding Scheme for Symbiotic Backscatter Multi-user NOMA Systems.....	1229
<i>Zhen Wen, Haiyang Ding, Maged Elkashlan, Dong Li, Chau Yuen, Jules M. Moualeu, Mingkai Chen, Zhongwei Liu</i>	
Measurement and Modeling of Industrial Complex Electromagnetic Interference for IIoT	1235
<i>Zhi Cao, Tao Peng, Yichen Guo, Yujie Zhao, Wenbo Wang</i>	

Robust Joint Optimization for Multi-Cell Backscatter Communication System: A Deep Reinforcement Learning Approach	1241
<i>Yuanyuan Lei, Chenyang Du, Meiyi Yang, Jing Guo, Ming Zeng</i>	
Fresnel Zones Modeling and Analysis of Motion Detection for Multi-Antenna ISAC Systems.....	1247
<i>Wei Huang, Yunfei Li, Caihong Kai, Shiwen He, Meng Li</i>	
An Air Quality Oriented Convolutional and Interaction Network for Traffic Flow Prediction in VANET.....	1253
<i>Hanlin Cheng, Xuan Li, Tianqing Zhou, Yu Yao, Kan Wang, Momiao Zhou</i>	
Near Field and Far Field Mixed Communication Via Rate Splitting Multiple Access.....	1259
<i>Xue Zhang, Haiyang Zhang, Qianyu Yang and Baoyun Wang</i>	
Modeling and Performance Optimization of Slotted Aloha with Successive Transmission.....	1265
<i>Weilong Zhu, Wen Zhan, Minjie Liu, Jiyun Qiu</i>	
QRFPose: Query-Based 3D Pose Estimation Using Radio Signals	1271
<i>Hong Wan, Ruiyuan Song, Chunyang Xie, Zhi Lu, Qi Chen, Zhi Wu, Dongheng Zhang, Yang Hu, Yan Chen</i>	
Trajectory Planning of Rechargeable UAVs for AoS Minimization in IoT Networks.....	1278
<i>Yunchao Liu, Suling Lin, Jie Gong</i>	
McEliece Public-Key Cryptosystem Based on Cyclic Codes.....	1284
<i>Junlong Ye, Deyuan Chen, Shaoshuai Gao, Can Zhang, Zhihuan Chen</i>	
UAV Complex Interference Signal Recognition Based on Lightweight Neural Network.....	1289
<i>Qiyue Li, Feng Yan, Fei Shen, Weiwei Xia, Lianfeng Shen</i>	
A fully-automated paper ECG digitisation algorithm for e-Health Applications	1295
<i>Tao Wang, Yiquan Wang, Zhisen Chang, Xiao Lyu, Zhipei Huang, Fei Qin</i>	
IIoT Network Planning and Coverage Analysis Considering Blockage Effects.....	1301
<i>Jingyu Lyu, Songjiang Yang, Yinghua Wang, Cheng-Xiang Wang, Jie Huang, Fuchun Zheng</i>	
A Novel Method to Guarantee Reliable Transmission in Wireless Fading Channel for Industrial IoT systems	1307
<i>Zhimin Zhang, Yuheng Li, Zhipei Huang, Xuewu Dai, Yunsheng Wang, Fei Qin</i>	
Dual-frequency Laser Range Finder with Coherent Detection.....	1313
<i>Xu Kang, Feng Bo, Wang Zhaowei</i>	
➤ Multimedia Processing and Communication Symposium	
Deep Viewpoint Prediction in 360° Video with Data Distribution Adaptation.....	1318
<i>Jingtao Lv, Yiyuan Chen, Xiaodong Xu, Xiaowei Qin</i>	
STDF-DSCS: A Lightweight Scheme for Compressed Video Quality Enhancement	1324
<i>Shufan Pei, Guangming Ren, Tiesong Zhao, Liqun Lin</i>	
HRC-Net : A High Robust ConvNeXt for Noisy Image.....	1330
<i>Chengfeng Hu, Jun Zhu, Yang Yang</i>	

Neural Video Compression with Dynamic Temporal Context Mining.....	1337
<i>Shuhong Liao, Kexiang Feng, Chuanmin Jia, Zhimeng Huang, Siwei Ma</i>	
A Lightweight Deraining Network Based on Hash Attention	1343
<i>Yifeng Lin, Kejian Hu, Guangpeng Wei, Liqun Lin, Ying Xue</i>	
ProbSparse Attention with Stacked Group Convolution for Wireless Signal-based Human Activity Recognition....	1349
<i>Dao Yi, Haiwei Zhang, Shaohan Feng, Jinxiang Fang, Wenbo Wang</i>	
Saliency Prediction of Traffic Surveillance Videos: A Benchmark and A Multi-task Approach	1355
<i>Weichen Duan, Minglang Qiao, Lai Jiang, Mai Xu, Xin Deng, Shijie Wen, Fei Li</i>	
A Novel Patch Selection Approach for Quality Assessment on Short-form Videos.....	1361
<i>Shijie Wen, Lai Jiang, Minglang Qiao, Mai Xu, Xin Deng, Shengxi Li, Yiping Duan</i>	
MicroFrame: A Multi-Complementary Color-Based Spatial Diversity System for Imperceptible and Robust Screen-Camera Communication.....	1368
<i>Bo Ben, Zaichen Zhang</i>	
A Time Series Model for Communication Scenario Recognition with Weighted Correction	1374
<i>Renxiao Zeng, Sheng Zhou</i>	
Robust Image Watermarking Based on Texture Guidance and Dynamic Multi-Spectrum Attention	1380
<i>Fengting Yang, Weikang Xue, Honglong Cao, Jianling Hu</i>	
Cross-modality Deformed Footprint Image Retrieval by Shape and Multi-layer Information.....	1387
<i>Hongying Wu, Yan Zhang, Yi Yan, Xingyu Wang, Nian Wang</i>	
BULLET: A Fast and Lightweight End-To-End Neural Network for Joint Acoustic Echo Cancellation and Noise Suppression.....	1393
<i>Song Chen, Yinlong Xu</i>	
Dual Propagation Video Super-Resolution with Spatial-Temporal Attention	1400
<i>Weikang Xue, Fengting Yang, Honglong Cao, Jianling Hu</i>	
DisenCB: Learning Diverse Disentangled Representation for Cross-domain Consecutive Footprint Retrieval.....	1406
<i>Sitong Wang, Yan Zhang, Yuqi Xia, Yufeng Wang, Nian Wang</i>	
Semantic Segmentation-Based Low-Rate Image Communication with Diffusion Models.....	1412
<i>Jun Huang, Chang Liu, Dong Liu</i>	
Joint Optimization of Buffer Delay and HARQ for Video Communications	1418
<i>Baoping Cheng, Peng Lei, Xiaoyan Xie, Tao Fu, Yukun Zhang, Xiaoming Tao</i>	
Camouflaged Object Detection with State-Space Model	1424
<i>Zhouyong Liu, Taotao Ji, Chunguo Li, Luxi Yang</i>	
➤ Semantic Communication and Networked Intelligence Symposium	
Lightweight Deep Joint Source-Channel Coding for Semantic Communications over Fading Channels.....	1430
<i>Weihan Zhang, Shaohua Wu, Siqi Meng, Muzhi Liu, Qinyu Zhang</i>	

Digital Image Semantic Communications with Joint Source-Channel Coding and Constellation Optimization	1436
<i>Linzi Shen, Nan Ma, Jianqiao Chen, Mengshu Song, Chen Dong</i>	
On the Performance of NOMA Enabled Caching in User-Centric Networks with Unreliable Backhauls	1442
<i>Zihang Zhang, Xianling Wang, Yousi Lin, Yue Tian, Haijun Zhang</i>	
Extreme Video Compression with Prediction Using Pre-trained Diffusion Models.....	1449
<i>Bohan Li, Yiming Liu, Xueyan Niu, Bo Bai, Wei Han, Lei Deng, Deniz Gündüz</i>	
Language-oriented Semantic Communication for Image Transmission with Fine-Tuned Diffusion Model.....	1456
<i>Xinfeng Wei, Haonan Tong, Nuocheng Yang, Changchuan Yin</i>	
Explainable Machine Learning-based Layered CSI Feedback in Massive MIMO System.....	1462
<i>Gang Li, Shuangfeng Han, Zhuo Chen, Yupeng Li, Zirui Wen, Qixing Wang</i>	
Multi-Task Semantic Communication for Image Transmission over MIMO Channel.....	1468
<i>Keyi Peng, Yue Meng, Di Wu, Zhi Zhang</i>	
Robust Semantic Communication System for Image Transmission.....	1474
<i>Likai Zhao, Ruofan Wang, Qi Cao, Guanchong Niu, Baoming Bai</i>	
Benchmarking Semantic Communications for Image Transmission over MIMO Interference Channels.....	1480
<i>Yanhu Wang, Shuaishuai Guo, Anming Dong, Hui Zhao</i>	
Towards Task-Scalable Semantic Communications: A Preprocessing Enhanced Image Transmission Framework ..	1485
<i>Yanpeng Lu, Kai Niu, Jincheng Dai</i>	
Reinforcement Learning from Human-like Feedback Enhances Semantic Communication with Multimodal LLMs	1491
<i>Xinyu Zhang, Xitao He, Mingkai Chen, Lei Wang</i>	
Joint Channel Estimation and Classification for Task-Oriented Communications.....	1497
<i>Ziyuan Liu, Hong Shen, Wei Xu, Feng Jiang, Shen Wang, Mengyu Li, Chunming Zhao</i>	
WAFI-VSC: Wireless Adaptive Frame Interpolation Video Semantic Communication.....	1503
<i>Xiaoxuan Qi, Nan Ma, Zhicheng Bao, Yiming Liu, Chen Dong, Xiaodong Xu</i>	
Semantics Guided Diffusion for Deep Joint Source and Channel Coding Design	1509
<i>Maojun Zhang, Guangxu Zhu, Kaifeng Han, Richeng Jin, Xiaoming Chen</i>	
Semantic Communication Based on Content Style Adaptation for Image Transmission.....	1515
<i>Mengshu Song, Nan Ma, Yiming Liu, Linzi Shen, Chen Dong</i>	
CQI Generation for AI-enabled CSI Feedback.....	1521
<i>Yuqing Hua, Jiajia Guo, Chao-Kai Wen, Chengyong Jiang, Shi Jin</i>	

➤ **Author Index**