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| Nota di contenuto       | Part-vol-I: Wireless Communications and MIMO systems. -- Near-field Non-Stationary Channel Estimation for Wideband Extremely Large-Scale MIMO. -- Pilot Optimization for mURLLC in CF mMIMO Systems Under $\mu$ Shadowed Fading. -- Study on Frequency Compatibility Analysis Methods Between NGSO Constellations and GSO Systems. -- Joint Resource Optimization for a Dual System Assisted by UAVs and RIS. -- A Method of inter-Base Station Synchronization for Cooperative Integrated Sensing and Communications in Indoor 2.2 GHz Scenarios. -- Gibbs Sampling based Channel Estimation under Magnitude Measurements. -- Frame Synchronization Algorithm Based on Cyclic Prefix and Signal Sparsity in Delay-Doppler Domain for OTFS System. -- An Effective Signal Processing Method for OFDM-based ISAC System. -- Active RIS-Enhanced Wireless Powered Communication Network in Hybrid Near- and Far-Field. -- Deep Reinforcement Learning-Based Secure Transmission for UAV-Mounted RIS Aided ISAC Systems. -- Energy Efficiency Optimization Based on DRL for RIS-assisted Heterogeneous Networks with Human-Machine-Object Hybrid Access. -- Temporal Beam Prediction for mmWave MIMO Systems based on Deep Learning. Unmanned Aerial Vehicles and Augmented Reality. -- |

Enhancing UAV Relay System Security: A Joint Optimization Algorithm for Power Allocation and Trajectory Planning. -- A Bibliometric Analysis of Cloud-based Augmented Reality. -- A Joint Optimization Method for Urban Edge User Task Offloading and UAV Energy Consumption in the Space-Air-Ground Integrated Network. -- A Path Recommendation System Based on UAV Swarm Missions. -- An Advanced UAV Perspective Object Detection Algorithm Based on Multi Scale Feature Reconstruction. -- Simultaneously Tracking Skeleton Points of Body and Hands in Virtual Reality. -- HyMSCA: A Hybrid Multi-Scale Convolutional Attention Model for Hyperspectral Image Classification. Part-vol-II: Edge Computing and the Internet of Things. -- Communication Efficient Reinforcement Learning-Based Federated Pruning. -- Semi-Asynchronous Federated Dynamic Mutual Distillation in Vehicular Networks. -- Computation Offloading and Resource Allocation in Multi-Constraint Edge Environments Using DRL. -- Anomaly Traffic Detection in Edge with Multi-scale Aggregated Transformer. -- Communication Efficient Fuzzy Clustered Graph Federated Learning. -- A Distributed Container-based Internet of Things (IoT)-enabled Autonomous e-healthcare System for Development and Operations (DevOps). Signal Processing and Optimization Algorithms. -- Weakly Supervised Multimodal Video Anomaly Detection Based on Knowledge Distillation. -- A Combined Phase Optimisation and Clipping Reduction PAPR Technique for LCSS System. -- A Structure of MWC Based on Overlapping Window Method for Wideband LFM. -- STFT Spectrograms and Statistical Features Fusion for Emitter Identification Based on Deep Learning. -- A Fast Rivet Detection Algorithm Based on VanillaNet Network and Computer Vision. -- A Cepstral Domain Radio Frequency Fingerprint Extraction Method for LTE-V2X. -- SEQ-Track: Detecting Web Tracking with Sequences of Packet Lengths and Time Intervals. -- Enhanced Feature-Based Approach to Identify and Classify Android Encrypted Malware Traffic. -- An Energy Efficient and High Accuracy Detection Scheme for Dual Function Radar and Communication Systems Task Scheduling and Blockchain. -- A Network Intrusion Detection Method Based on Multi-Scale Spatiotemporal Feature Extraction. -- Investigating the Correlation Between Choice of Spreading Factor and Duty Cycle Calculations on Energy Consumption Profiles for LoRa: Insights from Optimized Image and Audio Data Transmission in Beehive Monitoring. -- GPT Promotes Intelligent Autonomy in Communication Networks. -- Multipath Transaction Scheduling for Payment Channel Networks. -- An Energy Payment Transaction Scheduling Solution for Electric Vehicles Based on Off-chain Computing. -- Local Descriptors Aided Few-Shot Learning for Wireless Spectrum Status Recognition. -- A Variational Bayesian Based Adaptive Kalman Filter Time-scale Algorithm for Atomic Clock Ensemble. -- Cost-Optimized Dynamic Offloading and Resource Scheduling Algorithm for Low Earth Orbit Satellite Networks.

## Sommario/riassunto

The two-volume set LNICST 645 + 646 constitutes the proceedings of the 19th International Conference on Communications and Networking in China, ChinaCom 2024, held in Chongqing, China, during November 2–3, 2024. The 40 full papers and 2 Short papers included in this book were carefully reviewed and selected from 98 submissions. They focus on Wireless Communications and MIMO systems, Unmanned Aerial Vehicles and Augmented Reality, Edge Computing and the Internet of Things, Signal Processing and Optimization Algorithms, Task Scheduling and blockchain. They were organized in topical sections as follows: Part I: Wireless Communications and MIMO systems; Unmanned Aerial Vehicles and Augmented Reality Part II: Edge Computing and the

