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| Autore | Cai Zhipeng |
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| Altri autori (Persone) | TakabiDaniel GuoShaoyong ZouYifei |
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| Soggetti | Wireless communication systems Mobile communication systems Artificial intelligence Application software Computers Computer networks Wireless and Mobile Communication Artificial Intelligence Computer and Information Systems Applications Computing Milieux Computer Communication Networks |
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| Nota di contenuto | -- FedMQ: Multi-grained Quantization for Heterogeneous Federated Learning. -- A Secure and Efficient Privacy Data Aggregation Mechanism. -- A Lightweight Method to Survey with Protecting Privacy yet Maintaining Accuracy. -- A Method for Abnormal Detection and Poisoned Data Recovery in Clustered Federated Learning. -- FedDAGC: Dynamic Adaptive Graph Coarsening for Federated Learning on Non-IID Graphs. -- Defending Against Poisoning Attacks in Federated |

Prototype Learning on Non-IID Data. -- Federated Learning for Edge Heterogeneous Object Detection Algorithm. -- CoR-FHD: Communication-Efficient and Robust Federated Hyperdimensional Computing for Activity Recognition. -- Dynamic Staleness Control for Asynchronous Federated Learning in Decentralized Topology. -- Fair and Communication-Efficient Personalized Federated Learning. -- Distributed & Personalized Federated Learning in Wireless Ad Hoc Networks. -- DS-TFP: A Distributed and Secure Traffic Flow Prediction Framework Based on Federated Graph Learning. -- Federated Dynamic Graph Fusion Framework for Remaining Useful Life Prediction. -- FEAttack: A Fast and Efficient Hard-Label Textual Attack Framework. -- Pleno-Sense: An Adaptive Switching Algorithm towards Robust Respiration Monitoring Across Diverse Motion Scenarios. -- Inter-Technology Backscatter Communication: A Bidirectional Zigbee-BLE System. -- Distributed Dynamic Virtual Network Embedding in Container Networks. -- Automatic Modulation Recognition Using Parallel Feature Extraction Architecture. -- A Message Routing Algorithm Based on the Importance of Node Social Relationships in Opportunistic Mobile Networks. -- Real-time Atmospheric Duct Height Prediction Framework Based on Spatio-temporal to Ensure Maritime Communication Security. -- An Extra Diagnosis Algorithm for Conditional Recursive Match Networks under the PMC Model. -- Personalized mmWave Signal Synthesis for Human Sensing. -- Remorabook: Privacy-Preserving Mobile Social Networking Based on Remora Computing. -- DSBA: Dynamic Sharded Blockchain Architecture for Industrial Emergency Data Sharing. -- A Novel Merging Framework for Homogeneous and Heterogeneous Blockchain Systems. -- Active Defense Simulation Evaluation of Industrial Control Systems Based on Attack-Defense Graph. -- Hybrid Heterogeneous Wireless Chargers Placement. -- An Efficient Fault-tolerant Communication Scheme in 3-ary n-cube Networks. -- 3D Physical Layer Secure Transmission for UAV-assisted Mobile Communications without Locations of Eavesdroppers. -- Adaptive Self-healing Routing for Heterogeneous Ambient Backscatter Wireless Sensor Networks. -- Joint Optimization of Maximum Achievable Rate in SWIPT Systems Assisted by Active STAR-RIS. -- Anonymity on Byzantine-Resilient Decentralized Computing. -- A DRL-Based Edge Intelligent Servo Control with Semi-Closed-Loop Feedbacks in Industrial IoT. -- Anomaly Detection under Normality-Shifted IoT Scenario: Filter, Detection, and Adaptation. -- DevDet: Detecting IoT Device Impersonation Attacks via Traffic Based Identification. -- Multiscale Adversarial Domain Adaptation Approach for Cloud-Edge Collaborative Fault Diagnosis of Industrial Equipment. -- Detection and Localization of Malicious Nodes in Internet of Things Based on SDN. -- Enhancing Scalability: A Complete Tree Sharding Architecture towards IoT. -- A Cloud-Edge Integrated Water Body Extraction Using Superpixel Segmentation. -- Layer-Aware Microservice Deployment for Edge Computing with Service Reliability Provisioning. -- FusionFlow: Neural Fusion and Compression for Communication Efficient Edge-Cloud Collaborative Computing. -- Toward Low Overhead and Real-time Multi-vehicle Collaborative Perception via V2V Communication.

Sommario/riassunto

The three-volume proceedings set LNCS 14997-14999 constitutes the refereed proceedings of the 18th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2024, held in Qindao, China, during June 21–23, 2024. The 98 full papers and 10 short papers included in these proceedings were carefully reviewed and selected from 301 submissions. They focus on cutting-edge ideas, research findings, and innovative solutions in the dynamic intersection

of wireless technologies and artificial intelligence (AI) computing systems.
