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Nota di contenuto	-- ICIPNP 2024-Spring. -- An Energy-Efficient WSN Routing Protocol Using Genetic Algorithms and Predictive Coding. -- Cross-Layer Design Approaches for Wireless Systems. -- Interference Study of 5G Network Deployment on Meteorological Satellite System in 1800MHz Band. -- Digital Transformation of Construction and Installation Engineering Contract Management of Power Plant Project. -- An

Improved Cascaded Neural Network Method for Infrared Image Target Recognition. -- Study on Modeling of Radar Scattering Distribution Characteristics of Vehicle Targets. -- Comprehensive Analysis of Network Slicing in Integrated Satellite-Terrestrial Networks: Challenges and Opportunities. -- Research on the Application of Emergency Robot in Rescue Field and Analysis on its Intelligent Operation. -- Radio Resource and Energy Management Method for Green Wireless Networks Based on Multi-Layer Games. -- Joint Allocation of Caching and Computing Resources for Service Placement in D2D-Enabled MEC Networks. -- Revolutionizing Construction Design through the Promise of Large Language Models. -- RIS-Assisted Energy-Efficient Communication and Key Generation with Reinforcement Learning. -- Traffic Prediction Method of Satellite Communication Network Based on GCN and Attention Mechanism. -- Over-the-Air Computation with Integrated Sensing and Communication in Connected Vehicles: Challenges and Future Directions. -- NOMA-based Minimum Transmit Power of Static UAV. -- Cross-Domain Gesture Recognition Algorithm Based on Reinforcement Learning in WiFi Sensing. -- Digital Twin Driven Traffic Prediction for Power Communication Network Based on GraphLSTM. -- Adaptive Satellite Network Bandwidth Allocation Method Based on Sequential DDQN Model. -- An Improved Method for Feature Extraction and Classification of Channel Wave Signals Based on Local Mean Decomposition. -- 3D-CNN based Feature Acquisition and Action Recognition Algo-rithms for Temporal Data for 5G-TSN Systems. -- Unsupervised Text Semantic Matching Based on Contrastive Learning. -- Delay and Load Aware Service Rerouting Method for Power Communication Networks based on Digital Twins. -- Multi-Agent Deep Reinforcement Learning for Dynamic Spectrum Access. -- Machine Learning for Intelligent Resource Allocation in Wireless Networks. -- Holographic MIMO Communications with Reconfigurable Intelligent Surfaces for 6G Non-Terrestrial Networks. -- Millimeter-Wave MIMO Lens Antennas for Non-Terrestrial Networks in 6G. -- Machine Learning for Dynamic Spectrum Allocation in 6G Non-Terrestrial Networks. -- Location-Aware Resource Allocation for D2D Communications Underlaying 5G Networks. -- Distributed Beamforming for Interference Management in Heterogeneous Cellular Networks. -- Machine Learning Empowered Orthogonal Time Frequency Space Modulation for 6G Non-Terrestrial Networks. -- Network Slicing Delay Constrained Resource Allocation Algorithm Based on TOPSIS. -- Network Resource Scheduling Mechanism with Controllable Delay in the Service Function Chains. -- Age-of-Information Aware Radio Resource Management in URLLC Networks. -- Joint User Association and Resource Allocation in Multi-Tier HetNets with Energy Harvesting: Adapting to 6G NTN and IoT Dynamics. -- Adaptive Power Allocation for Dual-Function Radar and Communication Systems. -- Research on Vision Aided Beam Prediction Technology Based on Machine Learning. -- Facile Synthesis of Hollow NiO Nanotubes as Anode for Intelligent Lithium ion Batteries. -- Delay-phase Hybrid Precoding for Terahertz Massive MIMO Communication.

Sommario/riassunto

The four-volume set CCIS 2416, 2417, 2418 & 2419 constitutes the refereed post-conference proceedings of the Third International Conference on Information Processing and Network Provisioning, ICIPNP 2024 Spring, held in Beijing, China, during June 14–16, 2024. The 152 revised full papers presented in these proceedings were carefully reviewed and selected from 347 submissions. They focus on topics ranging from 5G/6G evolution and AI in network optimization to quantum communication and green computing.