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Nota di contenuto	Toward a QoS-Guaranteed Cloud through Elastic Resource Scaling and Request Updating -- A Dual Detection System of Common Anomalies in FANETs -- V-Sketch: A Sketch-based Verification Mechanism for Logical-Physical Rule Consistency in SDN -- Pessimistic Fault Diagnosis Algorithm for Hypercube-Like Networks Under the BGM Model -- Research on Tropical Cyclone Tracks Classification Methods and Feature Analysis in the Western Northern Pacific -- MARL-DCF: A Dual-channel Fusion Routing Algorithm based on Multi-agent Reinforcement Learning -- DataJudge: Cross-chain Data Consistency Verification Based on Extended Merkle Hash Tree -- Time-of-Use Pricing Aware

Battery Swapping Station Charging -- Scheduling via Deep Reinforcement Learning -- ORL-EPM: A Profit-Aware and Load-Driven Heterogeneous Resource Management Scheme with Collaborative Edge Computing -- AQC: Achieving Precise Bandwidth Allocation with Augmented Queues for Credit-based Proactive Congestion Control -- ChainSafari: A General and Efficient Blockchain Verifiable Query Scheme with Real-Time Synchronization -- Parallel Implementation of Number-Theoretic Transform on GPU Clusters -- SwinMixer Detector: A Two-level Traffic Flow Detection System based on Swin Transformer and MLP-Mixer -- BAV-DSS: Blockchain Assisted Verifiable Data Sharing Scheme with Fast Encryption and Outsourced Decryption for IoT -- Blockchain-assisted Anonymous Data Sharing Scheme with Full Accountability for CloudIoT -- MSA2 : An Efficient Sparsity-Aware Accelerator for Matrix Multiplication with Multi-core Systolic Arrays -- Accelerating Mini-batch HGNN Training by Reducing CUDA Kernels -- Anycast Routing for Unmanned Aerial Vehicle Networks with Multiple Base-stations -- Exploring RAPL as a Power Capping Leverage for Power-Constrained Infrastructures -- A Secure Cross-account Audit Scheme for Cross-chain Transactions -- Enhancing Delay-Sensitive Task Offloading: A Multi-Agent Deep Reinforcement Learning Approach for MEC-based AIoT Systems -- RF-AbVi: An Environmental Robust Monitoring Method of Abnormal Vibration Based on RFID.

Sommario/riassunto	The six-volume set, LNCS 15251-15256, constitutes the refereed proceedings of the 24th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2024, held in Macau, China, during October 29–31, 2024. The 91 full papers, 35 short papers and 5 workshop papers included in these proceedings were carefully reviewed and selected from 265 submissions. They focus on the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems.