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   Nota di contenuto   -- Intelligent Computing in Communication Networks -- UAV cluster dynamic deployment in edge data acquisition system. -- Multi-cluster Layer-sharing Container Scheduling in Cloud-Edge Collaboration. -- FairMS: Fair DNN Model Selection Algorithm for Collaborative Edge Intelligence. -- Delay-Energy Tradeoff for Intelligent Online Partial Offloading in Mobile Edge Computing. -- A Consortium Blockchain Framework for Low-Storage Coal Mine Dispatch Speech System. -- Federated Dynamic Aggregation Learning Based on Parameter Decomposition to Combat Noisy Data. -- QoE Oriented Efficient MEC-Assisted Rendering Scheme for Virtual Reality. -- IAE-LoRa: Interference-Aware and Energy-Efficient LoRa Optimization using

Reinforcement Learning. -- SecureNT: Smart Topology Obfuscation for Privacy-Aware Network Monitoring. -- Data Annotation Crowdsourcing Matching Optimization Method in Blockchain Environment: Based on Deep Reinforcement Learning. -- Joint Resource Allocation for Downlink NOMA-Assisted CR-SWIPT System. -- A Cross-Layer and Multi-Center Authentication Fusion Framework for Mobile Industrial Internet of Things. -- MENTOR: Malicious Network Traffic Detection Through Optimized LLM based Recognition. -- EDGaE: Efficient Distributed Graph Neural Network Training System at the Edge. -- Dynamic Service Migration and Resource Allocation for UAV-Assisted Vehicular Edge Computing. -- Intelligent Routing Decision Making Based on GGKM: Combining GCN and Deep Reinforcement Learning. -- INT-LLM: Adaptive Path Planner for In-band Network Telemetry via Large Language Models. -- PIKA: A Rate Control Mechanism for Real-Time Video Streaming Assisted by 5G Link Quality. -- SatDetector: Critical Nodes Detection for LEO Satellite Networks Based on Evolutionary Algorithm. -- Tongs: A Multi-Objective Scheduling Framework for Network Flow. -- Bimodal Data-Driven Optimization of Human Action Recognition: Combining CSI and Video Intelligence Analysis. -- Automated Cloud-Native Dynamic Network Policy Generation Based on Microservices Topology. -- Intelligent Computing in Finance Banking -- Deep Reinforcement Learning-based Portfolio Optimization with Black Litterman Model under Elliptical Distributions. -- FAEF: Frequency-Adaptive Economics Forecasting That Works. -- Semantic Information Tells the Truth: A Novel Approach to Numerical Veracity for Large Language Models in Financial Market Analytics. -- Asset-Centric Factor-Opinion Pair Extraction from Market Analysis Reports. -- Large Language Model-guided DeepFutures for Accurate Domestic Futures Trading. -- LightFSA: A Lightweight Financial Sentiment Analysis Model. -- Hidden Market Patterns: A Spatio-temporal Graph Auto-Encoder for Stock Price Forecasting and Portfolio Optimization Strategy. -- Deep Multi-View Factor Entropy Pooling: A Novel Framework for Adaptive Portfolio Optimization. -- Overnight Stock Movement Prediction Based on Dynamic Graph Neural Networks. -- Fraud Detection Based on Dynamic Graph Neural Networks. -- Virtual Reality and Human-Computer Interaction -- Spatial-Aware Anchor Growth for 3D Gaussian Field Reconstruction. -- EMFIN: A Multimodal Fusion Algorithm and Intelligent Navigation System for Intelligent Chemistry Experiments. -- AMC-Net: Adaptive Multi-Channel Sampling and Deep Reconstruction for Block-Based Image Compressive Sensing. -- ULTRA-Net: An Efficient and Interpretable Deep Network for Low-Dose CT Images Denoising. -- GESTURE-MINE: A Gesture Interaction-based VR enhancement for Mine Safety Inspection Training. -- Attention-Modulated Transformer for In-Air Handwriting Recognition. -- ARR-Net: An Adaptive Redundancy Reduction Network for Compressed Sensing. -- HD-Tex: Leveraging Structural Priors for High-Fidelity Texture Synthesis. -- AR-VitalSense: Enabling Real-Time Vital Sign Monitoring in Dynamic Environments. -- JoyLive: Efficient audio-driven portrait animation by 3D implict keypoints. -- MLAD: A Two-Stage Fully Automated Multi-Perspective Tabular Data Anomaly Detection Framework.

| Sommario/riassunto | This 20-volume set LNCS 15842-15861 constitutes - in conjunction with the 4-volume set LNAI 15862-15865 and the 4-volume set LNBI 15866-15869 - the refereed proceedings of the 21st International Conference on Intelligent Computing, ICIC 2025, held in Ningbo, China, during July 26-29, 2025. The total of 1206 regular papers were carefully reviewed and selected from 4032 submissions. This year, the conference concentrated mainly on the theories and methodologies as |

well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Advanced Intelligent Computing Technology and Applications".