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Nota di contenuto	-- Neural Networks. -- EMAFN: Enhanced Multimodal Alignment and Fusion for visual question answering Networks. -- PHierT: a Privacy-Preserving Hierarchical Transformer Model for ICS Network Traffic Classification. -- IDRS: An Input-Dependent Randomized Smoothing Method Certifying the Robustness of Temporal Link Prediction Models. -- MICTE: Mutual information and cross-modal text enhancement for multimodal sentiment analysis. -- Online Delay Learning Algorithm for Recurrent Spiking Neural Networks with Multiple Synaptic Connections. -- Enhancing Semantic-Guided Self-Supervised Monocular Depth Estimation by Exploring Task-Related Representations. -- Neural Networks Remember More: The Power of Parameter Isolation and

Combination. -- STLANet: A Spatio-Temporal Linear Attention Network for Multivariate Time Series Classification. -- Adaptive Dynamic Inference Framework Using Multi-Route Neural Networks under Constraints. -- AutoDesign-Net: Genetic Algorithm-Driven Neural Architecture and Feature Selection for Adaptive Time Series Modeling. -- SCN-YOLOv8: A Paradigm for Urban Road Garbage Detection Algorithm Based on YOLOv8. -- U-GANs: Pyramidal Convolutional Attention Fusion Network for Pneumonia Infection Segmentation with Semi-Supervised Learning. -- Multi Hierarchical Time Structures Aware Passenger Preference Evolution for Personalized Flight Recommendation. -- Density Constraint Based Neural Fluid. -- Joint Training of Singular Value Decomposition and Variational Graph Autoencoders for Link Prediction. -- CTMASleep: A Multi-Task Learning Framework for Single-Channel Sleep Staging. -- Enhancing Effective Channels of Data for Multivariate Time Series Classification. -- GA-fPINN: Global-Adaptive Physics-Informed Neural Networks for Predicting the Nonlinear Dynamics of Temporal Fractional Order Differential Equations. -- Reformulating Distributed Hybrid Flow Shop Scheduling under Degradation Effect Using Deep Reinforcement Learning and Spliced Heterogeneous Graph Attention Networks. -- Spectral Bounds and Quantum State Reconstruction in Multi-Dimensional Discrete-Time Quantum Walks. -- BlastocystMask: An Instance Segmentation of Internal Structure in Human Blastocyst Images. -- Delay Learning Algorithm in Spiking Neural Networks for Network Intrusion Detection. -- Using An Improved Lightweight YOLOv11 Model for Fuzzy Image Object Detection. -- A Diffusion-Based Neuron Coverage Feedback Fuzz Testing Method. -- Enhancing Fast Adversarial Training via Adaptive Self-Knowledge Dynamic Guidance. -- Frequency Perturbation and Spatial Attention Modulation for Privacy Preserving Action Recognition. -- Lightweight Neural Networks for Expiration Date Accessibility. -- YOLO-LFS: A Lightweight Method for Pomegranate Growth State Detection. -- Partitioned Memory-Based Method for Long-Tail Document-Level Relation Extraction. -- USEE-YOLO:An Improved Underwater Small Object Detection Algorithm With Edge Enhancement. -- A Lightweight Multi-View Stereo Method for 3D Reconstruction using Wavelet Transform and Depthwise Separable Convolution. -- FairGEO: Lightweight Bias Mitigation in Pruned CNNs via Length and Angle Alignment from Geometric Perspectives. -- Enhancing Federated Learning with Kolmogorov-Arnold Networks: A Comparative Study Across Diverse Aggregation. -- KFC: A Kalman Filtering Correction Method for Diffusion Model Acceleration. -- A Dual-Stream Network Architecture Based on GNN and CNN for Intrusion Detection. -- Generalization-Driven Anomaly Detection: A Two-Stage Framework with Encoder Freezing and Hybrid Learning. -- GAT-Trans: Graph Attention Networks for Analog Hardware Trojan Detection at Transistor Level. -- Clickbait Detection via Large Language Models. -- Stratospheric Wind Field Simulation Using Physics-Constrained Latent Diffusion Model. -- LLMonCAR: A Benchmark for Exploring Large Language Models on Cryptographic Algorithm Recognition. -- Enhancing Subject-Oriented Video Captioning with Predicate-Guided Action Modeling. -- Weaken Non-Primary Information to Enhance Single Face Image Super Resolution. -- Research on abnormal electricity usage detection based on Time GAN-CNN Transformer-Bi LSTM.

Sommario/riassunto

The 12-volume set CCIS 2564-2575, together with the 28-volume set LNCS/LNAI/LNBI 15842-15869, constitutes the refereed proceedings of the 21st International Conference on Intelligent Computing, ICIC 2025, held in Ningbo, China, during July 26-29, 2025. The 523 papers

presented in these proceedings books 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".