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Nota di contenuto	-- Neural Networks. -- Event Data Classification using TPE-based Deep Spiking Neural Networks. -- TIINet: A Three-Stage Interactive Integration Network for RGB-D Salient Object Detection. -- Dynamic Semantic Graph Learning with Progressive Alignment for Image-Text Matching. -- MGTDGraph: Multi-granularity Graph Attention Networks for Multivariate Long-term Time Series Forecasting. -- Topology-Aware Discriminative Graph Convolutional Network for Skeleton-Based Action Recognition. -- Online Delay Learning Algorithm for Feedforward Spiking Neural Networks Based on Spike Train Kernels. -- Energy-Constrained UAV Network Topology Recovery Based on Graph Convolutional Networks. -- UBDet: An Unsupervised Breast Tumor Detection Framework with Boundary-Aware Enhancement. -- Bidirectional Interactive Prompt Fusion and Noise Filtering for Multimodal Aspect-Based Sentiment Analysis. -- AMTerrain: Research

on Arbitrary-Modal Terrain Segmentation Based on Text Guidance. -- Correlation Adaptive Dynamic Graph Convolutional Networks for Traffic Flow Prediction. -- EMDC-YOLO: A Residual Multi-Scale Attention and Cross-Scale Fusion based Method for Pedestrian Detection in Crowded Scenes. -- A Novel Lightweight YOLO Method for Satellite Remote Sensing via Matrix Decomposition. -- TSMDM-Net: A Speech Emotion Recognition Model Based on Multi-Scale Time Series Dynamic Modeling. -- Research on Contrastive Learning-Based Knowledge Distillation for Deep Graph Neural Networks. -- Two-view Fusion Graph Neural Networks for Graph Classification. -- MambaForDIF: Distance-Importance Features and Long-Range Dependencies for Enhancing Aspect-Based Sentiment Analysis. -- FedCWE: Federated Cluster-based Weight Sampling and Ensemble Learning for Non-IID Data. -- ORE: an Offline Redundancy Elimination System for GNN Acceleration. -- Time Efficiency: Legendre Polynomials in Kolmogorov-Arnold Network. -- SCAUnet: Symmetric Cross-Attention U-net model for Semantic Segementation. -- Self-Attention Multiscale Mixed Propagation Network Based on Contrastive Augmentation. -- Sentiment Perception from Tokens: A Multitask Learning Framework with Entropy-Driven Fusion. -- GCLCP: Graph Contrastive Learning with Convolutional Perturbation for Recommendation. -- Agro-LLaVA-Next: A Large Multimodal Model for Plant Diseases Recognization. -- LTL-GCL:A more efficient layer-to-layer graph contrastive learning method for recommender system. -- IMVGCN : Interactive Multi-view Learning Graph Convolutional Networks for Traffic Flow Forecasting. -- An Inverse Cavity Scattering Inversion Method Based On Adaptive Neural Fuzzy Inference System. -- Entity Backdoor Attacks Against Fine-Tuned Models. -- Knowledge Graph Denoising with Dual Contrast for Recommendation. -- DDformer: Deepfake Detection with Multimodal Fusion Transformer. -- Improved Transfer Learning based on Increased Model Capacity and Weight Re-initialization for ResNet. -- BEVboost: Research on 3D Object Detection Method for Roadside Based on Multi-Feature Fusion. -- ARG-NetGaze Estimation Based on Adversarial Learning and Learnable Networks. -- GNN Advanced Heuristics Algorithm for Solving Multi-Depot Vehicle Problem. -- MSDBNet: A Multi-Scale and Dual-Branch Network for Cross-Domain Person Re-identification. -- Global and Local Feature Enhancement for Short Video Fake News Detection. -- SpikingRM: Efficient Scheduling Algorithm Based on Spiking Neural Network and Deep Reinforcement Learning. -- Infrared Multi-Scale Target Detection Based on Improved YOLOv11 and Spatiotemporal Features. -- Hierarchical Attention-Driven Dynamic Graph Neural Networks for Accurate Supply Chain Demand Forecasting. -- DHCBR: Evaluating the Influence of Supply Chain Complex Network Nodes Based on ResNet. -- An Efficient DNN Training Method with Progressive Pruning. -- TPKD: Teacher-Pruned Knowledge Distillation for Point Cloud-Based 3D Object Detection. -- Network Protocol Security Evaluation via LLM-enhanced Fuzzing in Extended ProFuzzBench.

Sommario/riassunto

The 20-volume set LNCS 15842-15861, together with the 4-volume set LNAI 15862-15865 and the 4-volume set LNBI 15866-15869, constitutes the refereed proceedings of the 21st International Conference on Intelligent Computing, ICIC 2025, held in Ningbo, China, during July 26-29, 2025. The 1206 papers presented in these proceedings books were carefully reviewed and selected from 4032 submissions. They deal with emerging and challenging topics in artificial intelligence, machine learning, pattern recognition, bioinformatics, and computational biology. .