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Nota di contenuto	-- Image Processing. -- Rainfall Pattern Similarity Analysis Based on Image Processing and Similarity Matching Techniques. -- AudioPortrait: A Staged Method for Generating Decoupled Facial Features and Synthesizing Speaker Faces through Voice. -- The Multimodality MRI Brain Tumor Segmentation Network based on Modal Interaction and Multimodal Fusion. -- A Multi-Scale Feature Fusion Method for Small Target Detection in High Altitude Aerial Photography. -- Multimodal Osteoporosis Image Classification Algorithm Based on Textual Prompts. -- FAN-Unet: Enhancing Unet with vision Fourier Analysis Block for Skin Lesion Segmentation. -- DCA-UNet: A Diffusion-Based Insulator Defect Image Generation Model with Dual

Cross-Attention Mechanisms. -- GMT: Novel View Synthesis of Road Regions in Sparse-View Gaussian Splatting that Uses Motion Trajectory Priors. -- Difference-Guided Hybrid Attention Network for Change Detection. -- CDFNet: Cross-Domain Spatial-Frequency Fusion for Enhanced Remote Sensing Image Segmentation. -- Multimodal Test-Time Adaptation for Fake News Detection. -- Weather-Diff: Towards arbitrary adversarial weather generation with diffusion models. -- Granularity-Aware Segment and Track for Click Video Object Segmentation. -- Based on Multi-scale Addition Feature Decomposition Network for Efficient Image Fusion. -- Chronological Classification of Bronze Inscriptions Based on Multi-Task Learning, Knowledge Distillation and Graph Convolutional Networks. -- Multi-Scale Fusion Lightweight Change Detection Network Based on Rich Information Extraction. -- Enhancing Small Blurred Object Detection by Region-level Semantic Context Exploiting. -- Camera Source Identification for Online Social Network Images Based on Multi-Scale Feature Fusion. -- VSS-Pose: Multi-Person 2D Pose Estimation with Selective State Space and Sampling Innovations. -- ViMILNet: Vision Transformer and MIL-Based Framework with MFMS Attention for Breast Cancer Diagnosis. -- Video Summarization Algorithm Based on Multimodal Multiscale Temporal Conjugate Position Coding. -- An Innovative Multi-scale Mamba Architecture for High-Accuracy Pneumonia Classification from Chest X-ray Image. -- Enhancing Generalization in Video Deepfake Detection via Ambiguous Data Generation. -- MCD-Net: A Multi-expert Collaborative Dehazing Network for Remote Sensing Images. -- GAHL: Gradient-Adaptive Hyperbolic Loss for Tiny Object Detection. -- Multi-Scale Complementary Feature Fusion Network for Infrared Small Target Detection. -- ATM: Aggregating Training-free Metrics for Ultra-Efficient Generated Image Detection. -- Accelerating Fourier Ptychographic Imaging by Content Guided Adaptive Super-Resolution Image Reconstruction. -- A Shadow-based Adversarial Attack Approach for Remote Sensing Image Classification. -- Spectrum Adaptation Hierarchical Attention Network for Visible-Infrared Person Re-identification. -- HiC-KAN: Hybrid Convolutional Kolmogorov-Arnold Network Architecture for Hyperspectral Image Classification. -- Frequency-Guided Wavelet Transformer for Effective Moiré Pattern Removal. -- High-Fidelity Arbitrary Style Transfer Based on Latent Style Space Projection. -- WF-UNet: Wave Fusion UNet for Medical Ultrasound Image Segmentation. -- MSFF-RWKV: Single-structure Multi-stage Feature Fusion Lightweight Super-Resolution Network. -- DAR-Det: Dynamic Attention-guided Rotating Detection Framework for Oriented Objects with Adaptive Feature Representation. -- BetterNucleiSeg: Better Diffusion Model for Robust Cross-Domain Nuclei Segmentation. -- MCT-Net: Multiscale Convolution-Transformer Network for Defect Image Generation Using Segmentation Maps. -- Lightweight YOLO steel surface defect detection method based on dynamic multi-scale attention mechanism. -- Enhanced RT-DETR for Aerial Traffic Object Detection. -- DehazeSwinUnet: A Swin Transformer-Based Architecture for High Performance Image Dehazing. -- A Novel Monte Carlo Option Pricing Method Based on Diffusion Models. -- GEMs-LLM: Integrating Large Language Models with Goal-Aware Exploration for RL-based Portfolio Optimization. -- ST-Net: Dual-Path Encoding with Seasonal-Trend Decomposition for Long Term Time Series Forecasting.

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".