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	Nota di contenuto	-- Image Processing -- Spatial-Spectral Topological Graphmamba for Hyperspectral Image Classification. -- Efficient 3D Brain Tumor Automatic Division Based on Attention Mechanism. -- Lightweight Remote Sensing Image Change Detection Based on Global Feature Fusion. -- DUMD-EIT: A Three-Stage Deconvolution-UNet-Masked Diffusion Model for Electrical Impedance Tomography Image Reconstruction. -- Image Deraining Network Based on Multi-Level Mixed Attention. -- Deep Hashing based on Feature Fusion Enhancing Hierarchical Transformer with Distance Separated Centers Guided Polarization Loss. -- GTF: Generator for Pairwise Thermal Face Image Synthesis. -- SDMD-RTDETR: An Improved Real-Time Transformer

Detection Model for Detecting Violations in Power Operators' Dress. -- Improving Heterogeneous Cryo-EM Reconstruction Using Transformer Architecture. -- TPANet: Scene Text Detection Based on Texture Refinement and Patch Driven Attention with Cross-Level Feature Integration. -- GL-Unet: Global-Local Attention Based Image Segmentation Algorithm for Transmission Line Defects. -- EMCrossNet: Edge-guided Bidirectional Mamba Fusion Network for Crack Segmentation. -- Forgery-aware Adaptive CLIP for Generalizable Face Forgery Detection. -- Efficient Oriented Object Detection with Enhanced Small Object Recognition in Aerial Images. -- Multimodal-guided Perceptual Image Compression via Joint Text and Audio. -- A Image Restoration Network for Nighttime Variegated Haze Conditions. -- The Loop Game: Quality Assessment and Optimization for Low-Light Image Enhancement. -- Lightweight Image Super Resolution via Multi-branch Feature Aggregation Network. -- Deep Unfolding for Task-Decomposed Image Restoration Under Diverse Degradations. -- Cross-Modality Differential Feature Interaction for Multispectral Pedestrian Detection. -- BiSyncFusion: Dual-Stream Bidirectional Synchronization for BEV Multimodal Fusion. -- ESCA-Net: Attention-enhanced CNN and Transformer fusion coding network for lung airway tree segmentation. -- Emphasizing Object-Background Difference Network for Camouflaged Object Detection. -- MSD-SEG: Multi-scale Deformable Convolution Network for Segmentation of Remote Sensing Images. -- MCGFusion: Multi-Scale Cross Gated Fusion Framework for Multi-Focus Image Fusion. -- A Deepfake Detection Model based on Optical Flow Estimation. -- cross-modal Prior Generation and Structured Information Fusion for Fewshot Semantic Segmentation. -- IEDNet: Learning A Two-stage Enhancement-Denoising Network for Low Light Image Enhancement. -- Optimal Transport-Based Prompt Alignment for Unsupervised Domain Adaptation. -- CSN-YOLOv5s: A Novel Detection Algorithm for PCB Surface Defects. -- Dynamic Convolution and Dimensional Joint Attention Based Denoising of Oracle Topography Images. -- Dynamic Partition Cascade Matching Multi-Target Trajectory Association. -- Learning Latent Representations with Codebook Priors for Single-Image Flare Removal. -- Chinese Text Detection in Natural Scenes based on Feature Pyramid with Attention Mechanism. -- K-CMorph: Integrating K-space Consistency and Complex-valued Processing for Improved MRI Deformable Registration. -- SA-SAM: Stronger Adaptation for SAM in Camouflaged Object Detection. -- GASNet: Geometric Robust Adaptive Spatial-Enhanced Network for Building Extraction. -- FSCIE: Fast Covert Image Exfiltration via Screen Recording. -- PanFormer: Dual-Head Soft Attention Meets Multi-Scale Residual Learning. -- K2Mural: Text-Guided Pre-trained Model for Mural Image Inpainting. -- FCFormer: Fourier Convolution Vision Transformer for Image Classification. -- YOLOv8-CSPD: Integrating Collaborative Attention and Lossless Downsampling for Real-Time Industrial Aluminum Can Detection. .-Natural Language Processing and Computational Linguistics -- Accelerating LLM Inference on RISC-V Edge Devices via Vector Extension Optimization.

| 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".