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	Nota di contenuto	-- Image Processing. -- A Polarization-Controlled Surface Imaging Reflection Suppression Method. -- Effective Feature Representation for Referring Video Object Segmentation. -- An Edge Enhanced Two-Stage Network for Nuclei Segmentation. -- Mitigating Spurious Correlations in Few-shot Classification via Bias and Dynamic Prompt. -- RFW-YOLO: A Multi-scale Feature Fusion Method for Infrared anti-UAV Detection Based on WTConv. -- Decoupled Modeling of Foreground and Background for Open-World Object Detection. -- TFRNet: A Text-Focused Snow Removal Network for Scene Text Recognition. -- Revitalize Supervised Low-Light Image Enhancer: Learning Source-free Fast Scene Adaptation. -- DeltaDiff: Reality-Driven Diffusion with

Anchor Residuals for Faithful SR. -- Boosting Adversarial Robustness through Structure-Guided Adversarial Distillation. -- DS-Net: A Local Color Complexity Prediction Network for Palette-Based Image Recoloring. -- SELSC: A Style Transfer Method with Style Enhancement and Localized Style Consistency. -- SemanticDifference: Change Detection with Multi-scale Vision-language Representation Difference. -- DiffEngine: Holistic Optimization of Attention and Decoder in Stable Diffusion. -- Hybrid Attention-Residual Networks for Hepatic and Portal Veins Semantic Segmentation in MR Images. -- SE-FormerSeg: Transformer Oil Leakage Detection Model based on Spatially Enhanced Transformer Segmentation. -- Gradient Manifold Density Fusion for 3D Object Detection. -- TOMTrack: Multi-Object Tracking with Temporal Info, Occlusion Handling and Object Mining. -- GCDN: A Novel YOLOv11-Based Approach for Cotton Pest and Disease Detection. -- StyleCraft: High-Quality Arbitrary Style Transfer via Unified Content-Style Fusion. -- STINet: Spatio-Temporal Interaction Network for Remote Sensing Image Change Detection. -- From Ambiguity to Precision: Multimodal Chain Reasoning with Dynamic Visual Grounding for Fine-Grained Recognition. -- Fourier-Enhanced Swin Transformer: An Image Denoising Approach for Intelligent Humanoid Robot Vision Systems. -- Enhancing Remote Sensing Object Detection with LL-YOLO: Integrating Multi-modal Data Fusion and Latent Diffusion Models. -- Enhancing Low-Light Image Enhancement with Mamba-Integrated Dual Branch Neural Networks. -- An Intelligent Detection Method for Safety Equipment Non-Compliance in High-Altitude Power Grid Operation. -- SGLFT-Occ: 3D Occupancy Prediction with Self-Supervised Global Local Flatten Transformer. -- Wavelet-Enhanced Convolution with Multiscale Aggregation Network for Small-Target Detection in UAV Images. -- ConvTrans-DF: A Deep Fake Detection Method Combining CNN and Transformer. -- WW-YOLO: A Feature-Enhanced Small Object Detection Model for Drone Aerial Image. -- V2Tex: High-Fidelity Texture Generation for 3D Meshes from Text using Video Diffusion Model. -- KDA-Tuning: Knowledge-Decoupled Adapter Tuning for Vision-Language Models. -- HCTEdge: Optimizing Edge Detection with Augmented Local Cues and Global Semantics. -- A chicken counting method based on improved SORT algorithm and double counting regions strategy. -- Frequency-Domain Enhanced Adaptive Ensemble Adversarial Attack for Protecting Image Privacy. -- Annotation-free Salient Object Detection via Spatial-enhanced Contrastive Learning and SAM. -- A New Dual-Branch SAR Image Interference Suppression Method. -- QuerySS3D: Boosting Semi-Supervised 3D Object Detection via Image Query. -- Oracle Bone Inscriptions Recognition Based on Spatial Transformer Network and Few-shot Learning. -- Refine Outline First: Mask-Based Point-Image Model for Efficient Point Cloud Completion. -- AFEI-Net: A Infrared Ship Detection Network Based on Adaptive Feature Selection and Edge Information Enhancement. -- EGAP-YOLO: An Efficient Crack Detection Model Based on YOLO Architecture. -- Robust Non-Rigid Point Set Registration with Adaptive Rigidity and Global Normal Consistency.

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".