1. Record Nr. UNINA9911015638603321

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| Titolo | Advanced Intelligent Computing Technology and Applications : 21st International Conference, ICIC 2025, Ningbo, China, July 26–29, 2025, Proceedings, Part IV / / edited by De-Shuang Huang, Haiming Chen, Bo Li, Qinhu Zhang |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025 |
| ISBN | 981-9699-52-5 |
| Edizione | [1st ed. 2025.] |
| Descrizione fisica | 1 online resource (868 pages) |
| Collana | Communications in Computer and Information Science, , 1865-0937 ; ; 2567 |
| Altri autori (Persone) | ChenHaiming<br>LiBo<br>ZhangQinhu |
| Disciplina | 006.3 |
| Soggetti | Computational intelligence<br>Computer networks<br>Machine learning<br>Application software<br>Computational Intelligence<br>Computer Communication Networks<br>Machine Learning<br>Computer and Information Systems Applications |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | -- Image Processing. -- WFS-SpectFormer: Target-Independent Deep Learning Wavefront Sensing via Frequency and Attention Networks. -- Optimization of MedSAM model based on bounding box adaptive perturbation algorithm. -- Watermarking of Image-to-image Translation for Face Editing. -- Unleashing the Potential of SAM for Change Detection: A Two-stage Approach for Enhanced Remote Sensing Analysis. -- Restoring the Lost Colors of Ancient Murals. -- Mask-Focused Edge-Perceptive Dual Distillation for Segmenting Hemorrhagic Stroke Brain Regions and Hematomas in CT. -- Mamba-OSCDNet: A Mamba-Based Siamese Network with Cross-Attention Fusion and Contrastive Learning for Optical-SAR Change Detection. -- |

Efficient Real-time Global Illumination Based on Light Probes. -- GMMI-RTDETR: An Improved RTDETR-Based Method for Detecting Violations of Dress Regulations by Power Operators. -- Cross-Modal Multi-scale Attention for Infrared and Visible Image Fusion. -- DHS2Net: Dynamic Hybrid Spectral Synthesis Network for Single Image Super Resolution. -- Research on Multi-modal Prototype guided Confusion Region Mining Method for Few-shot Segmentation. -- Scene Text Detection Method with Improved Feature Pyramid and Feature Enhancement. -- 2D/3D Residual Networks with Feature Pyramid and Hybrid Attention for Hyperspectral Image Classification. -- MSMD-YOLO: An Object Detection Network for Visually Impaired People with FPGA Acceleration. -- RC-Gaussian Filtering: An Efficient Gaussian Filtering Algorithm based on Row-Column Interleaved Computation. -- IFC: Inter-frame Geometry Information Compression for Volumetric Video with Adaptive Prediction Units and Selective Intra-frame Coding. -- GLNet: Global-Local Feature Integration Network for Image Dehazing with Adaptive Cross-Scale Fusion. -- Semantic-Aware Multi-Exposure Fusion Through Vision-Language Model. -- ISANet: Iterative network based on separable attention for camouflaged object detection. -- Temperature-Guided Feature Extraction for Fine-Grained Visual Classification. -- DifRankNet: A Region-Hierarchy-Aware Attention Mechanism-Based Method for Infrared Small Target Detection. -- Pattern Recognition. -- Fraud Detection in Mobile Payment Based on Deep Seeded-Clustering Model. -- Micro-expression recognition based on the suppression of static region amplification. -- DLFNet: Multi-Scale Dynamic Weighted Lane Feature Network for Complex Scenes. -- A Coffee Bean Defect Detection Algorithm with Decoupled Classification and Localization. -- Semantic Enhancement via Vessel Decomposition: Two-Stage Coronary Artery Segmentation. -- Android Malware Classification based on Cross-Attention Mechanism with Multiscale CNN and GCN. -- Advances in Facial Expression Recognition in Mild Cognitive Impairment. -- Sleeping Posture Recognition of Air Cushion Body Pressure Features Based on Attention, Spatial and Temporal Extraction. -- Collaborative Enhanced Attention for Speech Emotion Recognition Based on Multimodal Acoustic Information Fusion. -- Improving Knowledge Tracing Leveraging Student Group Classification with Optimized-TransformerNet. -- MST-YOLO: A Low-Light Target Detection Algorithm with Temporal Multi-Scale Feature Reconstruction and Adaptive Task Alignment. -- Grassmann Neighborhood Preserving Autoencoder for Image Set Classification. -- Left Ventricle Motion Estimation Based on Deep Graph Matching. -- Attention-guided Feature Distillation for Long-tailed Visual Recognition. -- EMO-Net: A Lightweight Framework for Robust Facial Expression Recognition via Dual-Branch Fusion and Channel-Wise Attention . -- LPI-YOLO: Lightweight Polyp Detection in Intestinal Endoscopy Based on Improved YOLOv8. -- FDMamba-Net: Feature-Decoupled Mamba Network for Efficient Flight Trajectory Prediction. -- Adaptive Multi-scale Feature Fusion Network for Few-shot Learning. -- Anomaly Detection Based on Multi-Transformation Domain Feature Fusion. -- An Entity Alignment Algorithm Based on TransR and Multi-Semantic Feature Fusion. -- Chinese Named Entity Recognition Integrating Graph Convolutional Network.

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".