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Nota di contenuto	A Data Augmentation based ViT for Fine-Grained Visual Classification -- A Detail Geometry Learning Network for High-Fidelity Face Reconstruction -- A Lightweight Multi-Scale Large Kernel Attention Hierarchical Network for Single Image Deraining -- A Multi-Scale Method for Cell Segmentation in Fluorescence Microscopy Images -- Adaptive interaction-based multi-view 3D object reconstruction -- An auxiliary modality based Text-Image matching methodology for fake news detection -- An Improved Lightweight YOLOv5 for Remote Sensing Images -- An Improved YOLOv5 with Structural

Reparameterization for Surface Defect Detection -- ASP Loss: Adaptive Sample-Level Prioritizing Loss for Mass Segmentation on Whole Mammography Images -- Cascaded Network-based Single-View Bird 3D Reconstruction -- CLASPPNet: A Cross-Layer Multi-Class Lane Semantic Segmentation Model Fused with Lane Detection Module -- Classification-based and Lightweight Networks For Fast Image Super Resolution -- CLN: Complementary Learning Network For 3D Face Reconstruction And Alignment -- Combining Edge-guided Attention and Sparse-connected U-Net for Detection of Image Splicing -- Contour-augmented Concept Prediction Network for image captioning -- Contrastive Knowledge Amalgamation for Unsupervised Image Classification -- Cross Classroom Domain Adaptive Object Detector for Student's Heads -- Diffusion-Adapter: Text Guided Image Manipulation with Frozen Diffusion Models -- DWA: Differential Wavelet Amplifier for Image Super-Resolution -- Dynamic Facial Expression Recognition in Unconstrained Real-World Scenarios Leveraging Dempster-Shafer Evidence Theory -- End-to-end Remote Sensing Change Detection of Unregistered Bi-temporal Images for Natural Disasters -- E-Patcher: A Patch-based Efficient Network for Fast Whole Slide Images Segmentation -- Exploiting Multi-modal Fusion for Robust Face Representation Learning with Missing Modality -- Extraction Method of Rotated Objects from High-resolution Remote Sensing Images -- Few-shot NeRF-based View Synthesis for Viewpoint-biased Camera Pose Estimation -- Ga-RFR: Recurrent Feature Reasoning with gated convolution for Chinese Inscriptions Image Inpainting -- Generalisation Approach for Banknote Authentication by Mobile Devices Trained on Incomplete Samples -- Image Caption with Prior Knowledge Graph and Heterogeneous Attention -- Image Captioning for Nantong Blue Calico Through Stacked Local-Global Channel Attention Network -- Improving Image Captioning with Feature Filtering and Injection -- In silico study of single synapse dynamics using a three-state kinetic model -- Interpretable Image Recognition by Screening Class-specific and Class-shared Prototypes -- Joint Edge-guided and Spectral Transformation Network for Self-Supervised X-ray Image Restoration -- Lightweight Human Pose Estimation Based On Densely Guided Self-Knowledge Distillation -- MCAPR: Multi-Modality Cross Attention for Camera Absolute Pose Regression -- MC-MLP: A Multiple Coordinate Frames MLP-Like Architecture for Vision -- Medical Image Segmentation and Saliency Detection through a Novel Color Contextual Extractor -- MedNet: A Dual-Copy Mechanism for Medical Report Generation from Images -- Ms-AMPool: Down-Sampling Method for Dense Prediction Tasks -- Multi-frame Tilt-angle Face Recognition Using Fusion Re-ranking -- Multi-scale field distillation for multi-task semantic segmentation -- Neural Field Conditioning Strategies for 2D Semantic Segmentation -- Neurodynamical Model of the Visual Recognition of Dynamic Bodily Actions from Silhouettes -- PACE: Point Annotation-Based Cell Segmentation for Efficient Microscopic Image Analysis -- Pie-UNet: A novel Parallel Interaction Encoder for Medical Image Segmentation -- Prior-SSL: A Thickness Distribution Prior and Uncertainty Guided Semi-supervised Learning Method for Choroidal Segmentation in OCT Images -- PSR-Net A Dual-Branch Pyramid Semantic Reasoning Network for Segmentation of Remote Sensing Images.

Sommario/riassunto

The 10-volume set LNCS 14254-14263 constitutes the proceedings of the 32nd International Conference on Artificial Neural Networks and Machine Learning, ICANN 2023, which took place in Heraklion, Crete, Greece, during September 26–29, 2023. The 426 full papers, 9 short papers and 9 abstract papers included in these proceedings were

carefully reviewed and selected from 947 submissions. ICANN is a dual-track conference, featuring tracks in brain inspired computing on the one hand, and machine learning on the other, with strong cross-disciplinary interactions and applications. .