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Nota di contenuto	Buffer-MIL: Robust Multi-instance Learning with a Buffer-based Approach -- Quasi-Online Detection of Take and Release Actions from Egocentric Videos -- Hashing for Structure-based Anomaly Detection -- Augmentation based on artificial occlusions for resilient instance segmentation -- Unsupervised Video Anomaly Detection with Diffusion Models Conditioned on Compact Motion Representations -- VM-NeRF: Tackling Sparsity in NeRF with View Morphing -- MOVING: a MOdular and flexible platform for embodied VIsual NaviGation -- Evaluation of

3D reconstruction pipelines under varying imaging conditions -- CarPatch: A Synthetic Benchmark for Radiance Field Evaluation on Vehicle Components -- Obstacle Avoidance and Interaction in Extended Reality: An Approach based on 3D Object Detection -- HMPD: a novel dataset for microplastics classification with digital holography -- Early detection of hip periprosthetic joint infections through CNN on Computed Tomography images -- Many-to-Many metrics: a new approach to evaluate the performance of structural damage detection networks -- Deepfakes Audio Detection leveraging audio spectrogram and Convolutional Neural Networks -- A deep Natural Language Inference predictor without language-specific training data -- Time-aware Circulant Matrices for Question-based Temporal Localization -- Enhancing Open-Vocabulary Semantic Segmentation with Prototype Retrieval -- Lightweight Blur Kernel Estimation Network for Blind Image Super-Resolution -- Hierarchical Pretrained Backbone Vision Transformer for Image Classification in Histopathology -- On using rPPG signals for DeepFake detection: a cautionary note -- An unsupervised learning approach to resolve phenotype to genotype mapping in budding yeasts vacuoles -- Food image classification: the benefit of in-domain transfer learning -- LCMV: Lightweight Classification Module for Video Domain Adaptation -- FEAD-D: Facial Expression Analysis in Deepfake Detection -- Large Class Separation is not what you need for Relational Reasoning-based OOD Detection -- BLUES: Before-reLU-EStimates Bayesian Inference for Crowd Counting -- Two is Better than One: Achieving High-Quality 3D Scene Modeling with a NeRF Ensemble -- BHAC-MRI: Backdoor & Hybrid Attacks on MRI Brain Tumor Classification Using CNN -- Unveiling the Impact of Image Transformations on Deepfake Detection: An Experimental Analysis -- Extrinsic Calibration of Multiple Depth Cameras for 3D Face Reconstruction -- A Deep Learning based Approach for Synthesizing Realistic Depth Maps -- Specialise to Generalise: the Person Re-identification Case -- Enhancing Hierarchical Vector Quantized Autoencoders for Image Synthesis through Multiple Decoders -- Dynamic Local Filters in Graph Convolutional Neural Networks -- An AI-Driven Prototype for Groundwater Level Prediction: Exploring the Gorgovivo Spring Case Study -- DiffDefense: Defending against Adversarial Attacks via Diffusion Models -- Exploring Audio Compression as Image Completion in Time-Frequency Domain -- Fuzzy Logic Visual Network (FLVN): A neuro-symbolic approach for visual features matching -- CISPc: Embedding images and point clouds in a joint concept space by contrastive learning -- Budget-Aware Pruning for Multi-Domain Learning -- Sparse Double Descent in Vision Transformers: real or phantom threat? -- Video Sonification to Support Visually Impaired People: the VISaVIS approach -- Minimizing Energy Consumption of Deep Learning Models by Energy-Aware Training -- The Specchieri MarVen Dataset: an Abbreviation-rich Dataset in Venetian Idiom -- Compensation for Patient Movements in CBCT Imaging for Dental Applications -- Spatial Exploration Indicators in the Remote Assessment of Visual Neglect.

Sommario/riassunto

This two-volume set LNCS 14233-14234 constitutes the refereed proceedings of the 22nd International Conference on Image Analysis and Processing, ICIAP 2023, held in Udine, Italy, during September 11–15, 2023. The 85 full papers presented together with 7 short papers were carefully reviewed and selected from 144 submissions. The conference focuses on video analysis and understanding; pattern recognition and machine learning; deep learning; multi-view geometry and 3D computer vision; image analysis, detection and recognition; multimedia; biomedical and assistive technology; digital forensics and

biometrics; image processing for cultural heritage; and robot vision. .