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Soggetti	Image processing - Digital techniques Computer vision Artificial intelligence Application software Computer systems Education - Data processing Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence Computer and Information Systems Applications Computer System Implementation Computers and Education
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Segmentation and action recognition -- Score-Based Generative Models for Medical Image Segmentation using Signed Distance Functions -- A Trimodal Dataset: RGB, Thermal, and Depth for Human Segmentation and Temporal Action Detection -- Airborne-Shadow: Towards Fine-Grained Shadow Detection in Aerial Imagery -- UGainS: Uncertainty Guided Anomaly Instance Segmentation -- Local Spherical Harmonics Improve Skeleton-Based Hand Action Recognition -- 3D reconstruction and neural rendering -- LMD: Light-weight Prediction Quality Estimation for Object Detection in Lidar Point Clouds -- A Network Analysis for Correspondence Learning via Linearly-Embedded Functions -- HiFiHR: Enhancing 3D Hand Reconstruction from a Single Image via

High-Fidelity Texture -- Point2Vec for Self-Supervised Representation Learning on Point Clouds -- FullFormer: Generating Shapes Inside Shapes -- GenLayNeRF: Generalizable Layered Representations with 3D ModelAlignment for Human View Synthesis -- RC-BEVFusion: A Plug-In Module for Radar-Camera Bird's Eye View Feature Fusion -- Parallax-aware Image Stitching based on Homographic Decomposition -- Photogrammetry and remote sensing -- DustNet: Attention to Dust -- Leveraging Bioclimatic Context for Supervised and Self-Supervised Land Cover Classification -- Automatic Reverse Engineering: Creating computer-aided design (CAD) models from multi-view images -- Characterization of out-of-distribution samples from uncertainty maps using supervised machine learning -- Underwater multiview stereo using axial camera models -- Pattern recognition in the life sciences -- 3D Retinal Vessel Segmentation in OCTA Volumes: Annotated Dataset MORE3D and Hybrid U-Net with Flattening Transformation -- M(otion)-mode Based Prediction of Ejection Fraction using Echocardiograms -- Improving Data Efficiency for Plant Cover Prediction with Label Interpolation and Monte-Carlo Cropping -- Learning Channel Importance for High Content Imaging with Interpretable Deep Input Channel Mixing -- Self-Supervised Learning in Histopathology: New Perspectives for Prostate Cancer Grading -- Interpretable machine learning -- DeViL: Decoding Vision features into Language -- Zero-shot Translation of Attention Patterns in VQA Models to Natural Language -- Beyond Debiasing: Actively Steering Feature Selection via Loss Regularization -- Simplified Concrete Dropout - Improving the Generation of Attribution Masks for Fine-grained Classification -- Weak supervision and online learning -- Best Practices in Active Learning for Semantic Segmentation -- COOLer: Class-Incremental Learning for Appearance-Based Multiple Object Tracking -- Label Smarter, Not Harder: CleverLabel for Faster Annotation of Ambiguous Image Classification with Higher Quality -- Speeding Up Online Self-Supervised Learning by Exploiting Its Limitations -- Text-to-feature diffusion for audio-visual few-shot learning -- Correlation Clustering of Bird Sounds -- MargCTGAN: A ``Marginally'' Better CTGAN for the Low Sample Regime -- Robust models -- Detecting Model Misspecification in Amortized Bayesian Inference with Neural Networks Adversarial Perturbations Straight on JPEG Coefficients -- Certified Robust Models with Slack Control and Large Lipschitz Constants -- Multiclass Alignment of Confidence and Certainty for Network Calibration -- Drawing the Same Bounding Box Twice? Coping Noisy Annotations in Object Detection with Repeated Labels -- An Evaluation of Zero-Cost Proxies - from Neural Architecture Performance Prediction to Model Robustness.

Sommario/riassunto

This book constitutes the proceedings of the 45th Annual Conference of the German Association for Pattern Recognition, DAGM-GCPR 2023, which took place in Heidelberg, Germany, during September 19-22, 2023. The 40 full papers included in these proceedings were carefully reviewed and selected from 76 submissions. They were organized in topical sections as follows: Segmentation and action recognition; 3D reconstruction and neural rendering; Photogrammetry and remote sensing; Pattern recognition in the life sciences; Interpretable machine learning; Weak supervision and online learning; Robust models.