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Learning Applications in Remote Sensing -- Image Segmentation by Latent Space Phase-Gating with Applications in High-Content Screening -- Evaluating Segmentation of Human Body Parts across Datasets. Recognition: Unsupervised Effectiveness Estimation Measure Based on Rank Correlation for Image Retrieval -- VLPSR: Enhancing Zero-shot Object ReID with Vision-language Model -- Sign Language Recognition using Visual Hand Landmarks and the Parameters of American Sign Language. ST: Generalization in Visual Machine Learning: Self-Supervised Segmentation to Pose Estimation Model for Mechanical Systems with Complex Kinematics -- Selective Noise-Aided Machine Unlearning with Deep Feature Visualization -- Investigating the Impact of a Foundational Medical Image Model for CT Classification. ST: Vision and Robotics for Agriculture: Vision-based Xylem Wetness Classification in Stem Water Potential Determination -- HydroVision: LiDAR-Guided Hydrometric Prediction with Vision Transformers and Hybrid Graph Learning -- Machine Vision and Deep Learning, for Robotic Harvesting of Shiitake Mushrooms -- Video analyses of Water Drop Penetration Time Using Temporal Action Localization for Evaluating Soil Water Repellency -- SAMPLS: A prompt engineering approach using Segment-Anything-Model for PLant Science research. Virtual Reality: Impact of Relevant Augmented Reality Information on Human Performance -- Toward Dynamic NPC Interactions: Integrating GPT-Driven Agents in 3D Virtual Environments -- Exploring Ecological Validity: A Comparative Study of the Mere Exposure Effect on Screens and in Immersive Virtual Reality -- Increasing Training Effciency of Motion-Intensive Virtual Reality Training with Adaptations based on Physiological Measurement Data. Applications: Leveraging Zero-Shot Learning on Street-View Imagery for Built Environment Variable Analysis -- Enhancing Classification of Aquatic Species through Supervised Contrastive Learning and Advanced Image Super-Resolution -- Automated Corrosion Identification in Metal Imagery: Traditional vs. Deep Learning -- Underwater Image Restoration using Light Attenuation -- HCC: An explainable framework for classifying discomfort from video. Poster: Enhanced Maritime Safety through Deep Learning and Feature Selection -- Discrete Anomalous Regions (DAR) - going beyond heatmaps and predicting actionable discrete regions -- Learning Flight Path Based on Recording Image and Flight Operation -- MobileNetV2-Enhanced Depth Map Super-Resolution through Multi-Scale Image Guidance -- Road Surface Material Recognition from Dashboard Cameras -- Embedded-ViT: A Framework for Embedded Deployment of Vision-Transformer in Medical Applications -- An Image-Based Method for Defect Detection on Metal Surfaces -- Real-Time Evaluation of Aircraft Instruments -- Enhancing Learned Image Compression via Cross Window-based Attention -- A Design of Real-Time Style-Transfer Operations in a Game Engine -- PLOV: A Visualization Tool For Exploring Visibility in Family Living Situations -- Exploring Gesture-Based Interaction in Smartwatch Games: A Comparative Study between Continuous Gesture Recognition and Hidden Markov Models.

Sommario/riassunto

This two-volume set LNCS 15046 and 15047 constitutes the refereed proceedings of the 17th International Symposium, ISVC 2024, held at Lake Tahoe, NV, USA, during October 21-23, 2024. The 54 (60) full papers and 12 poster papers were carefully reviewed and selected from 120 submissions. A total of 8 (13) papers were also accepted for oral presentation in special tracks from 15 submissions. The papers cover the following topical sections: Part I: Deep Learning; Computer Graphics; Video Analysis and Event Recognition; Motion and Tracking; Detection and Recognition; Visualization, and Medical Image Analysis.

Part II: Segmentation; Recognition; Generalization in Visual Machine Learning; Vision and Robotics for Agriculture; Virtual Reality; Applications, and Poster.