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Nota di contenuto	-- Security, Encryption. -- Legibility vs. Extractability: Crafting Visual Defenses Against Automated OCR. -- Secure Image Transmission in IoT Network Using Chaotic / Neural Network- Predictive S-Boxes for ASCON Lightweight Cryptography. -- Dynamic Chaotic-ASCON Encryption: ECG Security in Resource Constrained IoT. -- Beyond Face Blurring: Privacy-Preserving Surveillance via Homomorphic Encryption and Encrypted Facial Representations. -- Advancing Cybersecurity with Liquid Neural Networks: Robustness and Efficiency in IDS. -- Surveillance and Biometry. -- Gait Recognition via Pristine Feature Learning. -- FCR-PoseHRNet: Flexible Feature Realignment and Cross-Resolution Coordinate Refinement in PoseHRNet for 2D Human Pose

Estimation. -- CymruFluency - A fusion technique and a 4D Welsh dataset for Welsh fluency analysis. -- Keypoint-Integrated Instruction-Following Data Generation for Enhanced Human Pose and Action Understanding in Multimodal Models. -- Privacy aware Human-Object Interaction in the wild - Novel dataset. -- Improving Face Image Retrieval in Historical Archives: Fusion of Mirrored Images and Better Consensus Ranking. -- DeeCLIP: A Robust and Generalizable Transformer-Based Framework for Detecting AI-Generated Images. -- SAViL-Det: Semantic-Aware Vision-Language Model for Multi-Script Text Detection. -- Unmasking Performance Gaps: A Comparative Study of Human Anonymization and Its Effects on Video Anomaly Detection. -- SV-GaSRelight: Single-View Gaussian Splatting for 3D Human Relighting. -- Context-Aware Vision Language Model for Action Recognition. -- Deep Isoline Attack for Imperceptible Adversarial Perturbation on Face Recognition Systems. -- Detecting StyleGAN-Generated Deepfake Faces with Vision Transformers and Latent Attention. -- Computer Vision and Machine Learning. -- SinoDAM : A Volumetric Sinogram-Based Methodology for Realistic Dataset Augmentation in Additive Manufacturing. -- Active Deep Clustering: Exploratory Analysis to Assist in Decision-Making on Incremental Label Morphing Datasets. -- ICE-Cubed: Inpainting of Cinematographic Elements for Intelligent Context Expansion. -- Scoring-based Copy-Paste for Augmenting Crowded Pedestrian. -- Contrastive Learning through Auxiliary Branch for Video Object Detection. -- Pretraining Techniques for Ra Prediction with Long Thin Spatial Industrial Data. -- Visualizing the Lifespan of Industrial Objects with AI-Generated Texture Space. -- SelCLR: Self-labeling with Contrastive Learning and Applications in Machine Vision Systems. -- Pointy – A Lightweight Transformer for Point Cloud Foundation Models. -- On-Device Continual Adaptation for Reliable Solar Irradiance Forecasting. -- RowFormer: Multiple Class-Token-based Vision Transformer for 2D Context-Aware Attention. -- Automatic and Interactive Annotation of Non-Manual and Spatial Features in Pidgin Sign Japanese for SLR. -- UNETRSal: Saliency Prediction with Hybrid Transformer-Based Architecture. -- SABSE: Segmentation-Assisted Baseline Shapley Values. -- Remote Sensing, Natural Areas Monitoring. -- Correction of the Jitter Effect in Píeiades Satellite Elevation Data for Enhanced 3D Change Monitoring. -- Satellite image segmentation for landcover mapping using atrous spatial pyramid pooling and lightweight attention mechanism. -- Zero-Shot Seafloor Sediment Microtopography Characterization Using Stereo from a Drifting Monocular Camera. -- LOS Ground Displacement Monitoring in Northeast Tunisia Using SBAS InSAR. -- Oceans and algorithms: building successful collaborations in marine science and computer vision. -- Weakly Supervised Blue-Carbon Mapping of Rāhui Reefs with SAM-Bootstrapped nnU-Net. -- Medical Imaging. -- Application of Conditional Neural Movement Primitive (CNMP) for Movement Decoding Using Brain Signals. -- Unsupervised Multi-Class Glioma Segmentation in 3D MRI Using Adaptive Thresholding and Hierarchical Clustering. -- RGC-TinyUNet++: Dual-Stage Segmentation for Accurate Early Detection of Mammary Microcalcifications. -- Mammography Lexicon-based Explainable Artificial Intelligence for Diagnosis and Visual Interpretation of Breast Cancer. -- Sports Analytics. -- Analysis of Long-term Player Action Prediction Performance Based on Causal Modelling in Rugby League. -- Beyond Pixels: Leveraging the Language of Soccer to Improve Spatio-Temporal Action Detection in Broadcast Videos. -- Dance Style Recognition Using Laban Movement Analysis. -- Selective Multiple Reference Frame

Approach for VVC Standard. -- Robotics and Drones. -- Robust Road Surface Normal and Pitch Prediction via IMU-Camera Fusion. -- Towards Optimizing Swarm Drone Delivery in RF-Denied Environments. -- Task-oriented Robotic Manipulation with Vision Language Models. -- KENDALL-ROFT: Kendall's shape analysis with Rigid transformation and Optical Flow for Transformation-based micro-expression recognition. -- Extended Reality-Driven Testbed for Innovative Remote Drone Operations in Disaster Scenarios.

Sommario/riassunto

This book constitutes the proceedings of the 22nd International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2025, held in Tokyo, Japan, during July 2025. The 51 papers included in the proceedings were carefully reviewed and selected from 92 submissions. They were organized in topical sections as follows: Security and encryption; surveillance and biometry; computer vision and machine learning; remote sensing and natural areas monitoring; medical imaging; sports analytics; and robotics and drones. .
