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Nota di contenuto	-- Computer Vision. -- A continuous, differentiable, probability expressed harm risk estimator for robot actions in dynamic human centric environments. -- A Spatial Dense CRF Framework for Post Processing in Multispectral Image Segmentation. -- An Optimized Multi class Classification for Industrial Control Systems. -- Deformation Aware Butterfly Tracking in Raw Spatio Spectral Images. -- Enhancing IoMT security by using Benford’s law and distance functions. -- Enhancing Multi Object Tracking with Segmentation Masks: A Solution for Lost Object Recovery. -- Enriching Unbounded

Appearances for Neural Radiance Fields. -- Estimating object physical properties from RGB D vision and depth robot sensors using deep learning . -- Masking of Gaussian noise in color images: A psychophysical study of just noticeable differences using synthetic image patches of different luminance value. -- MixUDA: From Synthetic to Real Object Detection. -- Mutual Training Pseud Labeling Framework for Fire Segmentation. -- Subfield-Based 1 Attempt Parallel Thinning Algorithms on the Hexagonal Grid. -- Faces, Body, Fingerprints and Biometrics. -- A Geometric and Morphometric Methodology for Evaluating Low Cost 3D Facial Acquisition and Reconstruction Techniques. -- Abnormal Human Behaviour Detection using Normalising Flows and Attention Mechanisms. -- ECG Based Biometric Identification: An Exloratory Study Using Fingertip Signals Acquired With Solid State Electrodes. -- Federated Learning for Secure and Privacy-Preserving Facial Recognition: Advances, Challenges, and Research Directions. -- Multi scale Temporal Pose analysis for Gait Recognition. -- On the Use of Implicit Representations for Deepfake Detection. -- Pseudo MOS Learning: A Hybrid Full to No Reference FIQA Framework. .-Writer Identification using Simplified Handwritten Text Recognition Models. -- Machine and Deep Learning. -- A New Subgraph Extraction Algorithm through a Kinship Approach for Link Prediction in Knowledge Graphs. -- A Semi-automatic Annotation Framework for Neutrophil Ultrastructure from TEM images. .-Assessing Cross Device Generalization in Remote Sensing Image Super Resolution. -- Assessing Dimensionality Reduction on Driving Range Estimation. -- Fine-Grained Visual Classification of Antelope Species. -- Image Transformation Sequence Retrieval with General Reinforcement Learning. -- Impact of label level noise on multi label learning: a case study on the k Nearest Neighbor classifier. -- Learning to Detect and Describe a Wireframe. -- Mitigating Overfitting in Fully Transformer Architectures for Handwritten Text Recognition. -- Multi-Hop Pooling: Leveraging Transition Matrices for Hierarchical Graph Representation Learning. -- Spiking Alternatives for the Leaky Integrate and Fire Neuron: Applications in Cybersecurity and Financial Threats. -- Using LoRA and Reinforcement Learning In Interactive Machine Translation. -- Explainability, Bias and Fairness in DL. -- Causal SHAP: Feature Selection with Explainability and Causal Analysis. -- Gender Classification in Play Works Using BERT based Models. -- Mitigating Distribution Bias in Multimodal Datasets via Clustering Based Curation. -- Node Representation Diversity via Entropy Maximization in Graph Neural Networks.

Sommario/riassunto

The two volume set LNCS 15937 + 15938 constitutes the proceedings of the 12th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2025, which took place in Coimbra, Portugal, during June 30–July 3, 2025. The 67 full papers included in the proceedings were carefully reviewed and selected from 115 submissions. They were organized in topical sections as follows: Part I: Computer vision; faces, body, fingerprints and biometrics; machine and deep learning; explainability, bias and fairness in DL; Part II: Natural language processing; biomedical applications; and other applications.