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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 11867
Disciplina	006.42 006.4
Soggetti	Pattern recognition Optical data processing Artificial intelligence Arithmetic and logic units, Computer Special purpose computers Pattern Recognition Image Processing and Computer Vision Artificial Intelligence Arithmetic and Logic Structures Special Purpose and Application-Based Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Best Ranked papers -- Towards a Joint Approach to Produce Decisions and Explanations Using CNNs -- Interactive-predictive neural multimodal systems -- Uncertainty estimation for black-box classification models: a use case for sentiment analysis -- Impact of ultrasound image reconstruction method on breast lesion classification with deep learning -- Segmentation of cell nuclei in fluorescence microscopy images using deep learning -- Food Recognition by Integrating Local and Flat Classifiers -- Machine Learning -- Combining Online Clustering and Rank Pooling Dynamics for Action

Proposals -- On the Direction Guidance in Structure Tensor Total Variation Based Denoising -- Impact of Fused Visible-Infrared Video Streams on Visual Tracking -- Model Based Recursive Partitioning for Customized Price Optimization Analytics -- 3D Reconstruction of Archaeological Pottery from its Point Cloud -- Geometric interpretation of CNN's last layer -- Re-Weighted algorithms within the Lagrange duality framework: bringing interpretability to weights -- A note on Gradient-Based Intensity Normalization -- Blind Robust 3-D Mesh Watermarking based on Mesh Saliency and QIM quantization for Copyright Protection -- Using Copies to Remove Sensitive Data: A Case Study on Fair Superhero Alignment Prediction -- Weighted Multisource Tradaboost -- A proposal of neural networks with intermediate outputs -- Addressing the Big Data multi-class imbalance problem with oversampling and Deep Learning neural networks -- Reinforcement Learning and Neuroevolution in Flappy Bird Game -- Pattern Recognition -- Description and Recognition of Activity Patterns Using Sparse Vector Fields -- Instance Selection for the Nearest Neighbor Classifier Connecting the Performance to the Underlying Data Structure -- Modified DBSCAN algorithm for microscopic image analysis of wood -- Automatic Detection of Tuberculosis Bacilli from Microscopic Sputum Smear Images using Faster R-CNN, Transfer Learning and Augmentation -- Detection of stone circles in periglacial regions of Antarctica in UAV datasets -- Lesion Detection in Breast Ultrasound Images Using a Machine Learning Approach and Genetic Optimization -- Evaluating the Impact of Color Information in Deep Neural Networks -- Diatom classification including morphological adaptations using CNNs -- Deep Learning of Visual and Textual Data for Region Detection Applied to Item Coding -- Deep learning versus classic methods for multi-taxon diatom segmentation -- Estimation of Sulfonamides Concentration in Water based on Digital Colourimetry -- Characterization of cardiac and respiratory system of healthy subjects in supine and sitting position -- Automatic Fault Detection in a Cascaded Transformer Multilevel Inverter Using Pattern Recognition Techniques -- Collision anticipation via deep reinforcement learning for visual navigation -- Spectral band subset selection for discrimination of healthy skin and cutaneous Leishmanial ulcers -- Data Augmentation of Minority class with transfer learning for Classification of Imbalanced Breast Cancer Dataset using Inception V3 -- Image Processing and Representation -- Single-View Facial Hair 3D Reconstruction -- From Features to Attribute Graphs for Point Set Registration -- BELID: Boosted efficient local image descriptor -- A novel graph-based approach for seriation of mouse brain cross-section from images -- Class Reconstruction Driven Adversarial Domain Adaptation for Hyperspectral Image Classification -- Multi-Label Logo Classification using Convolutional Neural Networks -- Non-destructively prediction of quality parameters of drycured Iberian ham by applying computer vision and lowfield MRI -- Personalised aesthetics with residual adapters -- An Improvement for Capsule Networks using Depthwise Separable Convolution -- Wave Front Tracking in High Speed Videos Using a Dynamic Template Matching -- An Efficient Binary Descriptor to Describe Retinal Bifurcation Point for Image Registration -- Aggregation of deep features for image retrieval based on object detection -- Impact of Pre-Processing on Recognition of Cursive Video Text -- Image Feature Detection Based on Phase Congruency by Monogenic Filters with new Noise Estimation -- Texture Classification Using Capsule Networks -- Automatic vision based calibration system for planar cable-driven parallel robots -- 3D Non-rigid registration of Deformable object using GPU -- Focus estimation

in academic environments using Computer Vision.

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**Sommario/riassunto**

This 2-volume set constitutes the refereed proceedings of the 9th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2019, held in Madrid, Spain, in July 2019. The 99 papers in these volumes were carefully reviewed and selected from 137 submissions. They are organized in topical sections named: Part I: best ranked papers; machine learning; pattern recognition; image processing and representation. Part II: biometrics; handwriting and document analysis; other applications.

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