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Titolo	Pattern Recognition and Image Analysis : 10th Iberian Conference, IbPRIA 2022, Aveiro, Portugal, May 4–6, 2022, Proceedings // edited by Armando J. Pinho, Petia Georgieva, Luís F. Teixeira, Joan Andreu Sánchez
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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13256
Disciplina	006.4 006.42
Soggetti	Pattern recognition systems Education - Data processing Social sciences - Data processing Computer vision Machine learning Automated Pattern Recognition Computers and Education Computer Application in Social and Behavioral Sciences Computer Vision Machine Learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	DOCUMENT ANALYSIS -- Test Sample Selection for Handwriting Recognition through Language Modeling -- Classification of Untranscribed Handwritten Notarial Documents by Textual Contents -- Incremental Vocabularies in Machine Translation through Aligned Embedding Projections -- An Interactive Machine Translation Framework for Modernizing the Language of Historical Documents -- From Captions to Explanations: A Multimodal Transformer-based Architecture for Natural Language Explanation Generation -- MEDICAL IMAGE PROCESSING -- Diagnosis of Skin Cancer Using Hierarchical Neural Networks and Metadata -- Lesion-Based Chest Radiography

Image Retrieval for Explainability in Pathology Detection -- Deep Learning for Diagnosis of Alzheimer's Disease with FDG-PET Neuroimaging -- Deep Aesthetic Assessment and Retrieval of Breast Cancer Treatment Outcomes -- Increased Robustness in Chest X-ray Classification through Clinical Report-driven regularization -- MEDICAL APPLICATIONS -- Deep Detection Models for Measuring Epidermal Bladder Cells -- On the performance of deep learning models for respiratory sound classification trained on unbalanced data -- Automated Adequacy Assessment of Cervical Cytology Samples using Deep Learning -- Exploring Alterations in Electrocardiogram during the Postoperative Pain -- Differential Gene Expression Analysis of the Most Relevant Genes for Lung Cancer Prediction and Sub-type Classification -- Detection of epilepsy in EEGs using Deep Sequence models - A Comparative Study -- BIOMETRICS -- Facial Emotion Recognition for Sentiment Analysis of Social Media Data -- Heartbeat selection based on outlier removal -- Characterization of emotions through facial Electromyogram signals -- Feature selection for emotional well-being monitorization -- Temporal Convolutional Networks for Robust Face Liveness Detection -- PATTERN RECOGNITION & MACHINE LEARNING -- MaxDropoutV2: An Improved Method to Drop out Neurons in Convolutional Neural Networks -- Transparent management of adjacencies in the cubic grid -- Abbreviating Labelling Cost for Sentinel-2 Image Scene Classification through Active Learning -- Feature-based classification of archaeal sequences using compression-based methods -- A first approach to Image Transformation Sequence Retrieval -- Discriminative Learning of Two-Dimensional Probabilistic Context-Free Grammars for Mathematical Expression Recognition and Retrieval -- COMPUTER VISION -- Golf Swing Sequencing using Computer Vision -- Domain Adaptation in Robotics: A Study Case on Kitchen Utensil Recognition -- An Innovative Vision System for Floor-Cleaning Robots based on YOLOv5 -- LIDAR Signature based Node Detection and Classification in graph topological maps for indoor navigation -- Event Vision in Egocentric Human Action Recognition -- An edge-based computer vision approach for determination of sulfonamides in water -- IMAGE PROCESSING -- Visual Semantic Context Encoding for Aerial Data Introspection and Domain Prediction -- An End-to-End Approach for Seam Carving Detection using Deep Neural Networks -- Proposal of a comparative framework for face super-resolution algorithms in forensics -- On the use of Transformers for end-to-end Optical Music Recognition -- Retrieval of Music-Notation Primitives via Image-to-Sequence -- Digital image conspicuous features classification using TLCNN model with SVM classifier -- Contribution of low, mid and high-level image features in predicting human similarity judgements -- On the Topological Disparity Characterization of Square-pixel Binary Image Data by a Labeled Bipartite Graph -- Learning Sparse Masks for Diffusion-based Image Inpainting -- Extracting Descriptive Words from Untranscribed Handwritten Images -- OTHER APPLICATIONS -- GMM-aided DNN Bearing Fault Diagnosis using Sparse Autoencoder Feature Extraction -- Identification of External Defects on Fruits Using Deep Learning -- Improving Action Quality Assessment using Weighted Aggregation -- Improving Licence Plate Detection using Generative Adversarial Networks -- Film shot type classification based on camera movement styles -- The CleanSea Set: A Benchmark Corpus for Underwater Debris Detection and Recognition -- A case of study on traffic cone detection for autonomous racing on a Jetson platform -- Energy savings in residential buildings based on adaptive thermal comfort models -- Opt-SSL: An Enhanced Self-Supervised Framework for Food Recognition

-- Using bus tracking data to detect potential hazard driving zones --
Dynamic PCA based statistical monitoring of air pollutant concentrations in wildfire scenarios. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2022, held in Aveiro, Portugal, in May 2022. The 54 papers accepted for these proceedings were carefully reviewed and selected from 72 submissions. They deal with document analysis; medical image processing; biometrics; pattern recognition and machine learning; computer vision; and other applications. .
