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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13373
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Nota di contenuto	GoodBrother workshop on visual intelligence for active and assisted living -- Case study of a low-cost IoT device with a thermal vision to monitor human stool behavior in the home -- Adults' Pain Recognition via Facial Expressions Using CNN-based AU Detection -- In-bed posture and night wandering monitoring using force-sensing resistors -- Classifying Sport-Related Human Activity from Thermal Vision Sensors using CNN and LSTM -- MIRATAR: A virtual caregiver for Active and Healthy Ageing -- From Garment to Skin: The visuAAL Skin Segmentation Dataset -- A Mobile Food Recognition System for Dietary Assessment -- Smart Diet Management through Food Image and Cooking Recipe Analysis -- An approach for improving the older people's perception of video-based applications in AAL systems – initial study -- Parts can worth like the Whole - PART 2022 -- Spectral analysis of masked signals in the context of image inpainting -- BringingAttention to Anomaly Detection -- Workshop on Fine Art Pattern Extraction and Recognition - FAPER -- Recognizing the Emotions Evoked by Artworks Through Visual Features and Knowledge Graph-Embeddings -- Classification of pottery fragments described by

concentration of chemical elements -- Blind deblurring of hyperspectral document images -- MyBottega: an environment for the innovative production and distribution of digital art -- A Case Study for the Design and Implementation of Immersive Experiences in support of Sicilian Cultural Heritage -- Automatic indexing of virtual camera features from Japanese anime -- Imageability-based Multi-modal Analysis of Urban Environments for Architects and Artists -- Challenges in image matching for cultural heritage: an overview and perspective -- Workshop on Intelligent Systems in Human and Artificial Perception - ISHAPE 2022 -- Virtual and Augmented Reality for quality control of aircraft interiors -- Automatic scoring of synchronization from fingers motion capture and music beats -- Performance of Recent tiny/small YOLO Versions in the Context of Top-view Fisheye Images -- Cloud-based visually aided mobile manipulator kinematic parameters calibration -- Deep learning approaches for image-based detection and classification of structural defects in bridges -- MONstEr: a Deep learning-based system for the automatic generation of gaming assets -- Surface Oxide detection and characterization using sparse unmixing on hyperspectral images -- FakeNED: a deep learning based-system for fake news detection from social media -- Artificial Intelligence and Radiomics in Computer-Aided Diagnosis - AIRCAD -- Radiomics Analyses of Schwannomas in the head and neck: a preliminary analysis -- A shallow learning investigation for COVID-19 classification -- Shape Prior Based Myocardial Segmentation with Anatomically Motivated Pose Model -- PET images atlas-based segmentation performed in native and in template space: a radiomics repeatability study -- MRI-based radiomics analysis for identification of features correlated with the Expanded Disability Status Scale of Multiple Sclerosis patients -- matRadiomics: from Biomedical Image Visualization to Predictive Model Implementation -- Assessing high-order interdependencies through static O-Information measures computed on resting state fMRI intrinsic component networks -- Place cell's Computational Model -- Automatic Liver Segmentation in pre-TIPS Cirrhotic Patients: A Preliminary Step for Radiomics Studies -- Combining Convolutional Neural Networks and Anatomical Shape-Based priors for Cardiac Segmentation -- A Predictive System to Classify Preoperative Grading of Rectal Cancer using Radiomics Features -- Unsupervised Brain Segmentation System Using K-Means and Neural Network -- Combining Image and Geometry Processing Techniques for the Quantitative Analysis of Muscle-Skeletal Diseases -- Robustness of Radiomics Features to Varying Segmentation Algorithms in Magnetic Resonance Images -- Deep-Learning and High Performance Computing to Boost Biomedical Applications - DeepHealth -- Fast Learning Framework for Denoising of Ultrasound 2D Videos and 3D Images -- Lung nodules segmentation with DeepHealth toolkit -- UnitoBrain: A Brain Perfusion Dataset -- A Compact Deep Ensemble for High Quality Skin Lesion Classification -- Automatic Detection of Epileptic Seizures with Recurrent and Convolutional Neural Networks -- Enabling Efficient Training of Convolutional Neural Networks for Histopathology Images -- AI support for accelerating histopathological slide examinations of prostate cancer in clinical studies -- Detection of Pulmonary Conditions Using the DeepHealth Framework.

| Sommario/riassunto | The two-volume set LNCS 13373 and 13374 constitutes the papers of several workshops which were held in conjunction with the 21st International Conference on Image Analysis and Processing, ICIAP 2022, held in Lecce, Italy, in May 2022. The 96 revised full papers presented in the proceedings set were carefully reviewed and selected from 157 submissions. ICIAP 2022 presents the following Sixteen |

workshops: Volume I: GoodBrother workshop on visual intelligence for active and assisted living Parts can worth like the Whole - PART 2022 Workshop on Fine Art Pattern Extraction and Recognition - FAPER Workshop on Intelligent Systems in Human and Artificial Perception - ISHAPE 2022 Artificial Intelligence and Radiomics in Computer-Aided Diagnosis - AIRCAD Deep-Learning and High Performance Computing to Boost Biomedical Applications - DeepHealth Volume II: Human Behaviour Analysis for Smart City Environment Safety - HBAxSCES Binary is the new Black (and White): Recent Advances on Binary Image Processing Artificial Intelligence for preterm infants' healthCare - AI-care Towards a Complete Analysis of People: From Face and Body to Clothes - T-CAP Artificial Intelligence for Digital Humanities - AI4DH Medical Transformers - MEDXF Learning in Precision Livestock Farming - LPLF Workshop on Small-Drone Surveillance, Detection and Counteraction Techniques - WOSDETC Medical Imaging Analysis For Covid-19 - MIACOVID 2022 Novel Benchmarks and Approaches for Real-World Continual Learning - CL4REAL.