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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 11182
Disciplina	006.37
Soggetti	Optical data processing Artificial intelligence Computers Data structures (Computer science) Software engineering Computer science—Mathematics Image Processing and Computer Vision Artificial Intelligence Information Systems and Communication Service Data Structures and Information Theory Software Engineering/Programming and Operating Systems Mathematics of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Video Analysis -- Improving a Switched Vector Field Model for Pedestrian Motion Analysis -- Matrix Descriptor of Changes (MDC): Activity Recognition Based on Skeleton -- Person Re-identification with a Body Orientation-Specific Convolutional Neural Network -- Distributed Estimation of Vector Fields -- Clustering Based Reference Normal Pose for Improved Expression Recognition -- Detecting and Recognizing Salient Object in Videos -- Directional Beams of Dense Trajectories for Dynamic Texture Recognition -- Intrinsic Calibration of

a Camera to a Line-Structured Light using a Single View of Two Spheres -- 3D Object-Camera and 3D Face-Camera Pose Estimation For Quadcopter Control: Application To Remote Labs -- Orthogonally-Divergent Fisheye Stereo -- Two-Camera Synchronization and Trajectory Reconstruction for a Touch Screen Usability Experiment -- Segmentation and classification -- Comparison of Co-segmentation Methods for Wildlife Photo-identification -- An Efficient Agglomerative Algorithm Cooperating with Louvain Method for Implementing Image Segmentation -- Robust Feature Descriptors For Object Segmentation Using Active Shape Models -- Foreground Background Segmentation in Front of Changing Footage on a Video Screen -- Multi-organ Segmentation of Chest CT Images in Radiation Oncology: Comparison of Standard and Dilated UNet -- Diffuse Low Grade Glioma NMR Assessment for Better Intra-operative Targeting Using Fuzzy Logic -- Identification of Saimaa rRnged Seal Individuals using Transfer Learning -- Remote sensing -- Enhanced Codebook Model and Fusion for Object Detection with Multispectral Images -- Unsupervised Perception Model for UAVs Landing Target Detection and Recognition -- Parallel and Distributed Local Fisher Discriminant Analysis to reduce Hyperspectral Images on Cloud Computing Architectures -- Bayesian Vehicle Detection using Optical Remote Sensing Images -- Integrating UAV in IoT for RoI Classification in Remote Images -- Biometrics -- Enhanced Line Local Binary Patterns (EL-LBP): An Efficient Image Representation for Face Recognition -- Single Sample Face Recognition by Sparse Recovery of Deep-learned Ida Features -- Recursive Chaining of Reversible Image-to-image Translators for Face Aging -- Automatically Selecting the Best Pictures for an Individualized Child Photo Album -- Face Detection in Painting using Deep Convolutional Neural Networks -- Robust Geodesic Skeleton Estimation from Body Single Depth -- Deep Learning -- Analysis of Neural Codes for Near-Duplicate Detection -- Optimum Network/Framework Selection from High-Level Specifications in Embedded Deep Learning Vision Applications -- Contour Propagation in CT scans with Convolutional Neural Networks -- Person Re-identification using Group Context -- Fingerprint Classification using Conic Radon Transform and Convolutional Neural Networks -- NoiseNet: Signal-dependent Noise Variance Estimation with Convolutional Neural Network -- Effective Training of Convolutional Neural Networks for Insect Image Recognition -- A Deep Learning Approach to Hair Segmentation and Color Extraction from Facial Images -- Learning Morphological Operators for Depth Completion -- Dealing with Topological Information within a Fully Convolutional Neural Network -- Coding and Compression -- L-infinite Predictive Coding of Depth -- An Application of Data Compression Models to Handwritten Digit Classification -- A Global Decoding Strategy with a Reduced-reference Metric Designed for the Wireless Transmission of JPWL -- Reconfigurable FPGA Implementation of the AVC Quantiser and Dequantiser Blocks -- Image Restauration and Reconstruction -- Large Parallax Image Stitching Using an Edge-Preserving Diffeomorphic Warping Process -- A Wavelet Based Image Fusion Method using Local Multiscale Image Regularity -- Optimising Data for Exemplar-based Inpainting -- Fast Light Field inpainting Propagation using Angular Warping and Color-guided Disparity Interpolation -- Fusing Omnidirectional Visual Data for Probability Matching Prediction -- Derivative Half Gaussian Kernels and Shock Filter -- Scanner Model Identification of Official Documents Using Noise Parameters Estimation in the Wavelet Domain -- Relocated Colour Contrast Occurrence Matrix and Adapted Similarity Measure for Colour Texture Retrieval -- I-HAZE: a Dehazing Benchmark with Real Hazy and

Haze-free Indoor Images.

Sommario/riassunto

This book constitutes the refereed proceedings of the 19th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2018, held in Poitiers, France, in September 2018. The 52 full papers presented in this volume were carefully reviewed and selected from 91 submissions. They were organized in topical sections named: video analysis; segmentation and classification; remote sending; biometrics; deep learning; coding and compression; and image restauration and reconstruction.