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| | Descrizione fisica | 1 online resource (XV, 544 p. 227 illus.) |
| | Collana | Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 9127 |
| | Disciplina | 006.37 |
| | Soggetti | Optical data processing<br>Pattern recognition<br>Artificial intelligence<br>Computer graphics<br>Image Processing and Computer Vision<br>Pattern Recognition<br>Artificial Intelligence<br>Computer Graphics |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Includes index. |
| | Nota di contenuto | Texture Removal Preserving Edges by Diffusion -- Oriented shape index histograms for cell classification -- Dictionary Based Image Segmentation -- A Framework for Articulated Hand Pose Estimation and Evaluation -- Exploring Compression Impact on Face Detection using Haar-like Features -- Computer Vision for Head Pose Estimation: Review of a Competition -- 3D point representation for pose estimation : Accelerated SIFT vs ORB -- Uberatlas: Robust Speed-Up of Feature-Based Registration and Multi-Atlas Segmentation -- Classification of Alzheimer's disease from MRI using sulcal morphology -- Coloring Channel Representations for Visual Tracking -- High-Speed Hand Tracking for Studying Human-Computer Interaction -- Correction of Motion Artifacts for Real-Time Structured Light -- Brain Image Motion Correction: Impact of incorrect calibration and noisy tracking -- |

Heartbeat Signal from Facial Video for Biometric Recognition -- Consensus clustering using kNN mode seeking -- Discriminating Yogurt Microstructure Using Diffuse Reflectance Images -- An ensemble of 2D convolutional neural networks for tumor segmentation -- Anatomically correct surface recovery: A statistical approach -- Boosting Small-Data Performance of LBP: A Case Study in Celiac Disease Diagnosis -- Image Registration of Cochlear micro-CT Data Using Heat Distribution Similarity -- Persistent Evidence of Local Image Properties in Generic ConvNets -- Wooden Knot Detection Using ConvNet Transfer Learning -- Regularizing Image Intensity Transformations Using the Wasserstein Metric -- Categorisation of 3D Objects in Range Images Using Compositional Hierarchies of Parts Based on MDL and Entropy Selection Criteria -- Characterizing Digital Light Processing (DLP) 3D Printed Primitives -- Joint Spatial-Depth Feature Pooling for RGB-D Object Classification -- Category-Sensitive Hashing and Bloom Filter Based Descriptors for Online Keypoint Recognition -- Deep Semantic Pyramids for Human Attributes and Action Recognition -- Democratic Tone Mapping Using Optimal K-means Clustering -- Analysis of thermal video for coarse to fine particle tracking in volcanic explosion plumes -- Change Point Geometry for Change Detection in Video -- Progressive Visual Object Detection with Positive Training Examples Only -- RSD-HoG: A new image descriptor -- Using Motion Tracking to Detect Spontaneous Movements in Infants -- OMEG: Oulu Multi-pose Eye Gaze Dataset -- Image alignment for panorama stitching in sparsely structured environments -Microscopy Image Enhancement for Cost-Effective Cervical Cancer Screening -- Quantification of Brain Access of Exendin-4 in the C57BL Mouse Model by SPIM Fluorescence Imaging and the Allen Mouse Brain Reference Model -- Measuring the radius of meniscus ring during the growth of silicon rods -- Accuracy in Robot Generated Image Data Sets -- Face Verification Based on Gabor Region Covariance Matrices -- Detecting rails and obstacles using a train-mounted thermal camera -- Dictionary Based Segmentation in Volumes -- Face Recognition Using Smoothed High-Dimensional Representation -- Gender Classification by LUT based boosting of Overlapping Block Patterns.

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| Sommario/riassunto | This book constitutes the refereed proceedings of the 19th Scandinavian Conference on Image Analysis, SCIA 2015, held in Copenhagen, Denmark, in June 2015. The 45 revised papers presented were carefully reviewed and selected from 67 submissions. The contributions are structured in topical sections on novel applications of vision systems, pattern recognition, machine learning, feature extraction, segmentation, 3D vision to medical and biomedical image analysis. |