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Disciplina	004
Soggetti	Artificial intelligence Application software Computer science Database management Information storage and retrieval systems Image processing - Digital techniques Computer vision Artificial Intelligence Computer and Information Systems Applications Theory of Computation Database Management Information Storage and Retrieval Computer Imaging, Vision, Pattern Recognition and Graphics
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	On-The-Fly Handwriting Recognition using a High-Level Representation -- What is in Front? Multiple-Object Detection and Tracking with Dynamic Occlusion Handling -- Correlating Words - Approaches and Applications -- ExCuSe: Robust Pupil Detection in Real-World Scenarios -- Textured Object Recognition: Balancing Model Robustness and Complexity -- Review of Methods to Predict Social Image Interestingness and Memorability -- Predicting the number of

DCT coefficients in the process of seabed data compression --
Recognition of Images Degraded by Gaussian Blur -- Rejecting False
Positives in Video Object Segmentation -- Ground truth
Correspondence between nodes to Learn Graph-Matching Edit-Costs
-- Recognising Familiar Facial Features In Paintings Belonging to
Separate Domains -- Content based image retrieval based on
modelling human visual attention -- Tensor-directed Spatial Patch
Blending for Pattern-based Inpainting Methods -- A novel image
descriptor based on anisotropic Filtering -- A Novel Method for
Simultaneous Acquisition of Visible and Near-Infrared Light using a
Coded Infrared-Cut Filter -- Scale-Space Clustering on a Unit
Hypersphere -- Bokeh Effects Based on Stereo Vision -- Confidence
Based Rank Level Fusion for Multimodal Biometric System -- Optical
Flow Computation with Locally Quadratic Assumption -- Pose
Normalisation for 3D Vehicles -- Multimodal Output Combination for
Transcribing Historical Handwritten Documents -- Unsupervised
Surface Reflectance Field Multi-Segmenter -- A Dynamic Approach and
a New Dataset for Hand Detection in First Person Vision --
Segmentation and Labelling of EEG for Brain Computer Interfaces --
Wood Veneer Species Recognition using Markovian Textural Features --
Performance Analysis of Active Shape Reconstruction of Fractured,
Incomplete Skulls -- Content Extraction from Marketing Flyers --
Puzzle Approach to Pose Tracking of a Rigid Object in a Multi Camera
System -- Adaptive Information Selection in Images: Efficient Naive
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High-Resolution Images -- Fast re-ranking of visual search results by
example selection -- Egomotion Estimation and Reconstruction with
Kalman Filters and GPS Integration -- Bundle Adjustment with Implicit
Structure Modelling using a Direct Linear Transform -- Efficient
extraction of macromolecular complexes from electron tomograms
based on reduced representation templates -- Gradients and active
contour models for localization of cell membrane in HER2/neu images
-- Combination Photometric Stereo Using Compactness of Albedo and
Surface Normal in the Presence of Shadows and Specular Reflection --
Craniofacial Reconstruction using Gaussian Process Latent Variable
Models -- A High-order Depth-based Matching Method for Graphs --
On Different Colour Spaces for Medical Colour Image Classification --
SIFT Descriptor for Binary Shape Discrimination, Classification and
Matching -- Where is My Cup? -Fully Automatic Detection and
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Fluorescence images -- Means of 2D and 3D shapes and their
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Robust learning from ortho-diffusion decompositions -- Filter-based
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Music -- Vision-Based System for Automatic Detection of Suspicious
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Extraction -- A Homologically Persistent Skeleton is a fast and robust
descriptor of interest points in 2D images -- A k-max Geodesic
Distance and its Application in Image Segmentation -- Ground Level
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Randomized Iterated Hierarchical Hough Transform -- U3PT:A New
Dataset for Unconstrained 3D Pose Tracking Evaluation --
Characterization and Distinction Between Closely Related South Slavic
Languages on the Example of Serbian and Croatian -- Few-Views

Image Reconstruction with SMART and an Allowance for Contrast
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Random Subsampling with Initialization -- Vectorisation of Sketched
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Detection using Local Phase Quantization and Binary Gabor Pattern --
Low-Dimensional Tensor Principle Component Analysis -- Empirical
study of audio-visual features fusion for gait recognition -- Web User
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log identification based on digital cross-section images of log ends
using Fingerprint and iris recognition methods -- Detecting Human
Falls: A Vision-FSM Approach -- Trademark Image Retrieval Using
Inverse Total Feature Frequency and Multiple Detectors -- Adaptive
Graph Learning for Unsupervised Feature Selection -- Shot and scene
detection via hierarchical clustering for re-using broadcast video --
Locally adapted gain control for reliable foreground detection --
Fourier Features For Person Detection in Depth Data.

Sommario/riassunto

The two volume set LNCS 9256 and 9257 constitutes the refereed proceedings of the 16th International Conference on Computer Analysis of Images and Patterns, CAIP 2015, held in Valletta, Malta, in September 2015. The 138 papers presented were carefully reviewed and selected from numerous submissions. CAIP 2015 is the sixteenth in the CAIP series of biennial international conferences devoted to all aspects of computer vision, image analysis and processing, pattern recognition, and related fields.
