1. Record Nr. UNISA996465588103316

Titolo	Image Analysis [[electronic resource]] : 16th Scandinavian Conference, SCIA 2009, Oslo, Norway, June 15-18, Proceedings / / edited by Arnt-Borre Salberg, Jon Yngve Hardeberg, Robert Jenssen
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-282-29780-5 9786612297809 3-642-02230-8
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (796 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 5575
Classificazione	DAT 760f SS 4800
Disciplina	621.367
Soggetti	Optical data processing Pattern recognition Computer graphics Image Processing and Computer Vision Pattern Recognition Computer Graphics Kongress. Oslo (2009)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based on print version record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Human Motion and Action Analysis -- Instant Action Recognition -- Using Hierarchical Models for 3D Human Body-Part Tracking -- Analyzing Gait Using a Time-of-Flight Camera -- Primitive Based Action Representation and Recognition -- Object and Pattern Recognition -- Recognition of Protruding Objects in Highly Structured Surroundings by Structural Inference -- A Binarization Algorithm Based on Shade-Planes for Road Marking Recognition -- Rotation Invariant Image Description with Local Binary Pattern Histogram Fourier Features -- Weighted DFT Based Blur Invariants for Pattern Recognition -- Color Imaging and Quality -- The Effect of Motion Blur and Signal Noise on

Image Quality in Low Light Imaging -- A Hybrid Image Quality Measure for Automatic Image Quality Assessment -- Framework for Applying Full Reference Digital Image Quality Measures to Printed Images -- Colour Gamut Mapping as a Constrained Variational Problem -- Multispectral Color Science -- Geometric Multispectral Camera Calibration -- A Color Management Process for Real Time Color Reconstruction of Multispectral Images -- Precise Analysis of Spectral Reflectance Properties of Cosmetic Foundation -- Extending Diabetic Retinopathy Imaging from Color to Spectra -- Medical and Biomedical Applications -- Fast Prototype Based Noise Reduction -- Towards Automated TEM for Virus Diagnostics: Segmentation of Grid Squares and Detection of Regions of Interest -- Unsupervised Assessment of Subcutaneous and Visceral Fat by MRI -- Image and Pattern Analysis in Astrophysics and Astronomy -- Decomposition and Classification of Spectral Lines in Astronomical Radio Data Cubes -- Segmentation, Tracking and Characterization of Solar Features from EIT Solar Corona Images -- Galaxy Decomposition in Multispectral Images Using Markov Chain Monte Carlo Algorithms -- Face Recognition and Tracking -- Head Pose Estimation from Passive Stereo Images -- Multi-band Gradient Component Pattern (MGCP): A New Statistical Feature for Face Recognition -- Weight-Based Facial Expression Recognition from Near-Infrared Video Sequences -- Stereo Tracking of Faces for Driver Observation -- Computer Vision -- Camera Resectioning from a Box -- Appearance Based Extraction of Planar Structure in Monocular SLAM -- A New Triangulation-Based Method for Disparity Estimation in Image Sequences -- Sputnik Tracker: Having a Companion Improves Robustness of the Tracker -- Poster Session 1 -- A Convex Approach to Low Rank Matrix Approximation with Missing Data -- Multi-frequency Phase Unwrapping from Noisy Data: Adaptive Local Maximum Likelihood Approach -- A New Hybrid DCT and Contourlet Transform Based JPEG Image Steganalysis Technique -- Improved Statistical Techniques for Multi-part Face Detection and Recognition -- Face Recognition under Variant Illumination Using PCA and Wavelets -- On the Spatial Distribution of Local Non-parametric Facial Shape Descriptors -- Informative Laplacian Projection -- Segmentation of Highly Lignified Zones in Wood Fiber Cross-Sections -- Dense and Deformable Motion Segmentation for Wide Baseline Images -- A Two-Phase Segmentation of Cell Nuclei Using Fast Level Set-Like Algorithms -- A Fast Optimization Method for Level Set Segmentation -- Segmentation of Touching Cell Nuclei Using a Two-Stage Graph Cut Model -- Parallel Volume Image Segmentation with Watershed Transformation -- Fast-Robust PCA -- Efficient K-Means VLSI Architecture for Vector Quantization -- Joint Random Sample Consensus and Multiple Motion Models for Robust Video Tracking -- Extending GKLT Tracking—Feature Tracking for Controlled Environments with Integrated Uncertainty Estimation -- Image Based Quantitative Mosaic Evaluation with Artificial Video -- Improving Automatic Video Retrieval with Semantic Concept Detection -- Content-Aware Video Editing in the Temporal Domain -- High Definition Wearable Video Communication -- Regularisation of 3D Signed Distance Fields -- An Evolutionary Approach for Object-Based Image Reconstruction Using Learnt Priors -- Disambiguation of Fingerprint Ridge Flow Direction—Two Approaches -- Similarity Matches of Gene Expression Data Based on Wavelet Transform -- Poster Session 2 -- Simple Comparison of Spectral Color Reproduction Workflows -- Kernel Based Subspace Projection of Near Infrared Hyperspectral Images of Maize Kernels -- The Number of Linearly Independent Vectors in Spectral Databases -- A Clustering Based

Method for Edge Detection in Hyperspectral Images -- Contrast Enhancing Colour to Grey -- On the Use of Gaze Information and Saliency Maps for Measuring Perceptual Contrast -- A Method to Analyze Preferred MTF for Printing Medium Including Paper -- Efficient Denoising of Images with Smooth Geometry -- Kernel Entropy Component Analysis Pre-images for Pattern Denoising -- Combining Local Feature Histograms of Different Granularities -- Extraction of Windows in Facade Using Kernel on Graph of Contours -- Multi-view and Multi-scale Recognition of Symmetric Patterns -- Automatic Quantification of Fluorescence from Clustered Targets in Microscope Images -- Bayesian Classification of Image Structures -- Globally Optimal Least Squares Solutions for Quasiconvex 1D Vision Problems -- Spatio-temporal Super-Resolution Using Depth Map -- A Comparison of Iterative 2D-3D Pose Estimation Methods for Real-Time Applications -- A Comparison of Feature Detectors with Passive and Task-Based Visual Saliency -- Grouping of Semantically Similar Image Positions -- Recovering Affine Deformations of Fuzzy Shapes -- Shape and Texture Based Classification of Fish Species -- Improved Quantification of Bone Remodelling by Utilizing Fuzzy Based Segmentation -- Fusion of Multiple Expert Annotations and Overall Score Selection for Medical Image Diagnosis -- Quantification of Bone Remodeling in SR?CT Images of Implants.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th Scandinavian Conference on Image Analysis, SCIA 2009, held in Oslo, Norway, in June 2009. The 30 revised full papers and 49 revised poster papers presented were carefully reviewed and selected from 154 submissions. The papers are organized in topical sections on human motion and action analysis, object and pattern recognition, color imaging and quality, multispectral color science, medical and biomedical applications, image and pattern analysis in astophysics and astronomy, face recognition and tracking and computer vision.