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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

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.