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Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 5748
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Soggetti	Pattern recognition Optical data processing Computer graphics User interfaces (Computer systems) Artificial intelligence Pattern Recognition Computer Imaging, Vision, Pattern Recognition and Graphics Image Processing and Computer Vision Computer Graphics User Interfaces and Human Computer Interaction Artificial Intelligence Jena (2009)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Motion and Tracking -- A 3-Component Inverse Depth Parameterization for Particle Filter SLAM -- An Efficient Linear Method for the Estimation of Ego-Motion from Optical Flow -- Localised Mixture Models in Region-Based Tracking -- A Closed-Form Solution for Image Sequence Segmentation with Dynamical Shape Priors -- Markerless 3D Face Tracking -- Pedestrian Recognition and Automotive Applications -- The Stixel World - A Compact Medium Level

Representation of the 3D-World -- Global Localization of Vehicles
Using Local Pole Patterns -- Single-Frame 3D Human Pose Recovery
from Multiple Views -- Dense Stereo-Based ROI Generation for
Pedestrian Detection -- Pedestrian Detection by Probabilistic
Component Assembly -- High-Level Fusion of Depth and Intensity for
Pedestrian Classification -- Features -- Fast and Accurate 3D Edge
Detection for Surface Reconstruction -- Boosting Shift-Invariant
Features -- Harmonic Filters for Generic Feature Detection in 3D --
Increasing the Dimension of Creativity in Rotation Invariant Feature
Design Using 3D Tensorial Harmonics -- Training for Task Specific
Keypoint Detection -- Combined GKLT Feature Tracking and
Reconstruction for Next Best View Planning -- Single-View and 3D
Reconstruction -- Non-parametric Single View Reconstruction of
Curved Objects Using Convex Optimization -- Discontinuity-Adaptive
Shape from Focus Using a Non-convex Prior -- Making Shape from
Shading Work for Real-World Images -- Learning and Classification --
Deformation-Aware Log-Linear Models -- Multi-view Object Detection
Based on Spatial Consistency in a Low Dimensional Space -- Active
Structured Learning for High-Speed Object Detection -- Face
Reconstruction from Skull Shapes and Physical Attributes -- Sparse
Bayesian Regression for Grouped Variables in Generalized Linear
Models -- Learning with Few Examples by Transferring Feature
Relevance -- Pattern Recognition and Estimation -- Simultaneous
Estimation of Pose and Motion at Highly Dynamic Turn Maneuvers --
Making Archetypal Analysis Practical -- Fast Multiscale Operator
Development for Hexagonal Images -- Optimal Parameter Estimation
with Homogeneous Entities and Arbitrary Constraints -- Detecting
Hubs in Music Audio Based on Network Analysis -- A Gradient Descent
Approximation for Graph Cuts -- Stereo and Multi-view Reconstruction
-- A Stereo Depth Recovery Method Using Layered Representation of
the Scene -- Reconstruction of Sewer Shaft Profiles from Fisheye-Lens
Camera Images -- A Superresolution Framework for High-Accuracy
Multiview Reconstruction -- View Planning for 3D Reconstruction Using
Time-of-Flight Camera Data -- Real Aperture Axial Stereo: Solving for
Correspondences in Blur -- Real-Time GPU-Based Voxel Carving with
Systematic Occlusion Handling -- Image-Based Lunar Surface
Reconstruction -- Image Analysis and Applications -- Use of Coloured
Tracers in Gas Flow Experiments for a Lagrangian Flow Analysis with
Increased Tracer Density -- Reading from Scratch -- A Vision-System for
Reading Data on Micro-structured Surfaces -- Diffusion MRI
Tractography of Crossing Fibers by Cone-Beam ODF Regularization --
Feature Extraction Algorithm for Banknote Textures Based on
Incomplete Shift Invariant Wavelet Packet Transform -- Video Super
Resolution Using Duality Based TV-L 1 Optical Flow -- HMM-Based
Defect Localization in Wire Ropes -- A New Approach to Unusual
Subsequence Recognition -- Beating the Quality of JPEG 2000 with
Anisotropic Diffusion -- Decoding Color Structured Light Patterns with
a Region Adjacency Graph -- Residual Images Remove Illumination
Artifacts! -- Superresolution and Denoising of 3D Fluid Flow Estimates
-- Spatial Statistics for Tumor Cell Counting and Classification --
Segmentation -- Quantitative Assessment of Image Segmentation
Quality by Random Walk Relaxation Times -- Applying Recursive EM to
Scene Segmentation -- Adaptive Foreground/Background Segmentation
Using Multiview Silhouette Fusion -- Evaluation of Structure
Recognition Using Labelled Facade Images -- Using Lateral Coupled
Snakes for Modeling the Contours of Worms -- Globally Optimal Finsler
Active Contours.

of the German Association for Pattern Recognition, DAGM 2009, held in Jena, Germany, in September 2009. The 56 revised full papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on motion and tracking; pedestrian recognition and automotive applications; features; single-view and 3D reconstruction; learning and classification; pattern recognition and estimation; stereo and multi-view reconstruction; image analysis and applications; and segmentation.
