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Disciplina	006.37
Soggetti	Optical data processing Pattern perception Computer graphics Artificial intelligence Image Processing and Computer Vision Pattern Recognition Computer Graphics Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Geometry -- A Generic Concept for Camera Calibration -- General Linear Cameras -- A Framework for Pencil-of-Points Structure-from-Motion -- What Do Four Points in Two Calibrated Images Tell Us about the Epipoles? -- Feature-Based Object Detection and Recognition II -- Dynamic Visual Search Using Inner-Scene Similarity: Algorithms and Inherent Limitations -- Weak Hypotheses and Boosting for Generic Object Detection and Recognition -- Object Level Grouping for Video Shots -- Posters II -- Statistical Symmetric Shape from Shading for 3D Structure Recovery of Faces -- Region-Based Segmentation on Evolving Surfaces with Application to 3D Reconstruction of Shape and Piecewise Constant Radiance -- Human Upper Body Pose Estimation in Static

Images -- Automated Optic Disc Localization and Contour Detection Using Ellipse Fitting and Wavelet Transform -- View-Invariant Recognition Using Corresponding Object Fragments -- Variational Pairing of Image Segmentation and Blind Restoration -- Towards Intelligent Mission Profiles of Micro Air Vehicles: Multiscale Viterbi Classification -- Stitching and Reconstruction of Linear-Pushbroom Panoramic Images for Planar Scenes -- Audio-Video Integration for Background Modelling -- A Combined PDE and Texture Synthesis Approach to Inpainting -- Face Recognition from Facial Surface Metric -- Image and Video Segmentation by Anisotropic Kernel Mean Shift -- Colour Texture Segmentation by Region-Boundary Cooperation -- Spectral Solution of Large-Scale Extrinsic Camera Calibration as a Graph Embedding Problem -- Estimating Intrinsic Images from Image Sequences with Biased Illumination -- Structure and Motion from Images of Smooth Textureless Objects -- Automatic Non-rigid 3D Modeling from Video -- From a 2D Shape to a String Structure Using the Symmetry Set -- Extrinsic Camera Parameter Recovery from Multiple Image Sequences Captured by an Omni-Directional Multi-camera System -- Evaluation of Robust Fitting Based Detection -- Local Orientation Smoothness Prior for Vascular Segmentation of Angiography -- Weighted Minimal Hypersurfaces and Their Applications in Computer Vision -- Interpolating Novel Views from Image Sequences by Probabilistic Depth Carving -- Sparse Finite Elements for Geodesic Contours with Level-Sets -- Hierarchical Implicit Surface Joint Limits to Constrain Video-Based Motion Capture -- Separating Specular, Diffuse, and Subsurface Scattering Reflectances from Photometric Images -- Temporal Factorization vs. Spatial Factorization -- Tracking Aspects of the Foreground against the Background -- Example-Based Stereo with General BRDFs -- Adaptive Probabilistic Visual Tracking with Incremental Subspace Update -- On Refractive Optical Flow -- Matching Tensors for Automatic Correspondence and Registration -- A Biologically Motivated and Computationally Tractable Model of Low and Mid-Level Vision Tasks -- Appearance Based Qualitative Image Description for Object Class Recognition -- Consistency Conditions on the Medial Axis -- Normalized Cross-Correlation for Spherical Images -- Bias in the Localization of Curved Edges -- Texture -- Texture Boundary Detection for Real-Time Tracking -- A TV Flow Based Local Scale Measure for Texture Discrimination -- Spatially Homogeneous Dynamic Textures -- Synthesizing Dynamic Texture with Closed-Loop Linear Dynamic System.

Sommario/riassunto

Welcome to the proceedings of the 8th European Conference on Computer Vision! Following a very successful ECCV 2002, the response to our call for papers was almost equally strong – 555 papers were submitted. We accepted 41 papers for oral and 149 papers for poster presentation. Several innovations were introduced into the review process. First, the number of program committee members was increased to reduce their review load. We managed to assign to program committee members no more than 12 papers. Second, we adopted a paper ranking system. Program committee members were asked to rank all the papers assigned to them, even those that were reviewed by additional reviewers. Third, we allowed authors to respond to the reviews consolidated in a discussion involving the area chair and the reviewers. Fourth, the reports, the reviews, and the responses were made available to the authors as well as to the program committee members. Our aim was to provide the authors with maximal feedback and to let the program committee members know how authors reacted to their reviews and how their reviews were or

were not reflected in the final decision. Finally, we reduced the length of reviewed papers from 15 to 12 pages.

The preparation of ECCV 2004 went smoothly thanks to the efforts of the organizing committee, the area chairs, the program committee, and the reviewers. We are indebted to Anders Heyden, Mads Nielsen, and Henrik J. Nielsen for passing on ECCV traditions and to Dominique Asselineau from ENST/TSI who kindly provided his GestRFIA conference software. We thank Jan-Olof Eklundh and Andrew Zisserman for encouraging us to organize ECCV 2004 in Prague.
