1. Record Nr. UNISA996466151503316

Titolo	Computer Vision - ECCV'98 [[electronic resource]] : 5th European Conference on Computer Vision, Freiburg, Germany, June 2-6, 1998, Proceedings, Volume I / / edited by Hans Burkhardt, Bernd Neumann
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1998
ISBN	3-540-69354-8
Edizione	[1st ed. 1998.]
Descrizione fisica	1 online resource (XVI, 927 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1406
Disciplina	006.6 006.37
Soggetti	Optical data processing Computer graphics Pattern recognition Artificial intelligence Image Processing and Computer Vision Computer Graphics Pattern Recognition Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	A common framework for multiple view tensors -- Computation of the quadrifocal tensor -- Self-calibration of a 1D projective camera and its application to the self-calibration of a 2D projective camera -- Multi viewpoint stereo from uncalibrated video sequences -- Recognition of planar point configurations using the density of affine shape -- Autocalibration from planar scenes -- A new characterization of the trifocal tensor -- Threading Fundamental matrices -- Use your hand as a 3-D mouse, or, relative orientation from extended sequences of sparse point and line correspondences using the affine trifocal tensor -- Do we really need an accurate calibration pattern to achieve a reliable camera calibration? -- Optimal estimation of three-dimensional rotation and reliability evaluation -- From regular images to animated heads: A least squares approach -- Stereo vision-based navigation in

unknown indoor environment -- Epipolar geometry for panoramic cameras -- Occlusions, discontinuities, and epipolar lines in stereo -- Symmetry in perspective -- Projective and illumination invariant representation of disjoint shapes -- Robust techniques for the estimation of structure from motion in the uncalibrated case -- A factorization method for projective and Euclidean reconstruction from multiple perspective views via iterative depth estimation -- Automatic camera recovery for closed or open image sequences -- Structure and motion from points, lines and conics with affine cameras -- Simultaneous estimation of viewing geometry and structure -- What is computed by structure from motion algorithms? -- Complete dense stereovision using level set methods -- The geometry and matching of curves in multiple views -- Automatic modelling and 3D reconstruction of urban house roofs from high resolution aerial imagery -- Closed-form solutions for the Euclidean calibration of a stereo rig -- Is machine colour constancy good enough? -- Colour model selection and adaptation in dynamic scenes -- Comprehensive colour image normalization -- Invariant-based shape retrieval in pictorial databases -- Concerning Bayesian motion segmentation, model averaging, matching and the trifocal tensor -- Self inducing relational distance and its application to image segmentation -- Contour continuity in region based image segmentation -- On spatial quantization of color images -- Using Ifs and moments to build a quasi invariant image index -- Determining a structured spatio-temporal representation of video content for efficient visualization and indexing -- Demosaicing: Image reconstruction from color CCD samples -- Perceptual smoothing and segmentation of colour textures -- Visual recognition using local appearance -- A factorization approach to grouping -- Faithful least-squares fitting of spheres, cylinders, cones and tori for reliable segmentation -- Multi-step procedures for the localization of 2D and 3D point landmarks and automatic ROI size selection -- Object oriented motion estimation in color image sequences -- Multi-scale and snakes for automatic road extraction -- A model-free voting approach for integrating multiple cues -- Finding boundaries in natural images: A new method using point descriptors and area completion -- A smoothing filter for condensation -- Camera-based ID verification by signature tracking -- Model based tracking for navigation and segmentation -- Beginning a transition from a local to a more global point of view in model-based vehicle tracking -- View-based adaptive affine tracking -- An efficient combination of 2D and 3D shape descriptions for contour based tracking of moving objects -- 2D-object tracking based on projection-histograms -- W 4 S: A real-time system for detecting and tracking people in 2 1/2D -- Icondensation: Unifying low-level and high-level tracking in a stochastic framework -- A probabilistic framework for matching temporal trajectories: Condensation-based recognition of gestures and expressions.

Sommario/riassunto

This two-volume set constitutes the refereed proceedings of the 5th European Conference on Computer Vision, ECCV'98, held in Freiburg, Germany, in June 1998. The 42 revised full papers and 70 revised posters presented were carefully selected from a total of 223 papers submitted. The papers are organized in sections on multiple-view geometry, stereo vision and calibration, geometry and invariances, structure from motion, colour and indexing, grouping and segmentation, tracking, condensation, matching and registration, image sequences and video, shape and shading, motion and flow, medical imaging, appearance and recognition, robotics and active vision, and motion segmentation.