1. Record Nr. UNISOBTWSOB00001644

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Titolo	Victor Hugo e la lirica italiana / Maria Valente
Pubbl/distr/stampa	Torino ; Roma ; Milano : Paravia, 1907
Descrizione fisica	159 p. ; 20 cm
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNISA996466148303316

Titolo	Computer Analysis of Images and Patterns [[electronic resource]] : 6th International Conference, CAIP'95, Prague, Czech Republic, September 6–8, 1995 Proceedings / / edited by Vaclav Hlavac, Radim Sara
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1995
ISBN	3-540-44781-4
Edizione	[1st ed. 1995.]
Descrizione fisica	1 online resource (XVIII, 962 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 970
Disciplina	006.4/2
Soggetti	Earth sciences Signal processing Image processing Speech processing systems Pattern recognition Computer graphics Computer-aided engineering Bioinformatics Computational biology Earth Sciences, general Signal, Image and Speech Processing Pattern Recognition Computer Graphics Computer-Aided Engineering (CAD, CAE) and Design Computer Appl. in Life Sciences

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Groups for grouping: a strategy for the exploitation of geometrical constaints -- Invariant standard positions of ordered sets of points -- Skew symmetry detection via invariant signatures -- Efficient matching of space curves -- A complexity space for curve grouping -- Segmentation in scale space -- An unsupervised region growing method for 3D image segmentation -- Segmentation of images for environmental studies using a simple Markov/Gibbs random field model -- Optical flow computation in the log-polar plane -- A statistical regularization framework for estimating normal displacements along contours with subpixel accuracy -- Computation of 3D-motion parameters using the log-polar transform -- ExSel++: A general framework to extract parametric models -- Generic 3-D shape model: Acquisitions and applications -- Guidelines for choosing optimal parameters of elasticity for snakes -- Tracking surfaces via texture-mapping: A boot-strapping approach -- Motion-based identification of deformable templates -- Extending the Point Distribution Model using polar coordinates -- Intermediate views for face recognition -- Rendering real-world objects without 3-D model -- Modelling 3-D rigid solid objects using the view signature II representation scheme -- Spatial and feature space clustering: Applications in image analysis -- An automatic and robust algorithm for determining motion and structure from two perspective images -- 3-D scene reconstruction from image sequences -- Triangulation -- 3D Surface reconstruction using occluding contours -- Image redundancy and classification -- Towards a measure of diversity between grey-scale images -- Pattern orientation and texture symmetry -- Multiscale texture enhancement -- Spatio-temporal robust motion estimation and segmentation -- A new spatiotemporal approach for image analysis. Application to motion detection -- Dense non-rigid motion estimation in sequences of medical images using differential constraints -- Topological and geometrical corners by watershed -- Crest lines detection by valleys spreading -- The distance transform for line patterns: Generalisation and development -- Mobile detection based on histogram difference -- Particle tracking in space time sequences -- Plant tracking-based motion analysis in a crop field -- An adaptive k-NN rule based on Dempster-Shafer theory -- Shadows, defocus and reliable estimation -- Estimating the initial values of unobservable variables in visual probabilistic networks -- Relational matching with active graphs -- Approximate string matching by finite automata -- Matching delaunay triangulations by probabilistic relaxation -- Affine matching of intermediate symbolic representations -- Automatic classification of skin tumours with high resolution surface profiles -- 4 Dimensional modelling of the human heart -- Structure adaptive anisotropic filtering for magnetic resonance image enhancement -- In situ determination of cell concentration in bioreactors with a new depth from focus technique -- Closing the loop: Pursuing a moving object by a moving observer -- An algorithm for a linear shape-from-shading problem -- Isophotes: the key to tractable local shading analysis -- Efficient high order neural network for rotation, translation and distance invariant recognition of gray scale images -- Learning human face detection in cluttered scenes -- Head

pose computation for very low bit-rate video coding -- Self-calibration of an affine camera -- Stereo calibration by planar grid lines -- Monocular pose estimation of circular primitives -- A new method of extracting closed contours using maximal discs -- A simple algorithm to evaluate the local symmetry at each point of a closed contour -- On boundary approximation -- Texture classification of mouse liver cell nuclei using invariant moments of consistent regions -- Text recognition from grey level images using hidden Markov models -- New models of image restoration -- An improved model of snakes for model-based segmentation -- The weighted backprojection techniques of image reconstruction -- Fusion of Bayesian estimation and MTF inversion techniques for improved array imaging in scattering media -- Case based reasoning for image interpretation -- Classification of corrosion images by wavelet signatures and LVQ networks -- Knowledge acquisition for image analysis using hypermedia interface -- Interpretation of printed forms for blind people -- Automatic segmentation of boundaries in line segments and circular arcs -- Moment-based invariant fitting of elliptical segments -- Compression of binary images based on covering -- Motion detection with fuzzy logic in real time -- Use of explicit knowledge for the reconstruction of 3-D object geometry -- Detecting grey level symmetry: The frequency domain approach -- A new method to threshold images of flat binary scenes under uneven lighting -- Improving snake performance via a dual active contour -- SMD position measurement by a Kohonen network compared with image processing -- Estimating feature discriminant power in decision tree classifiers -- Statistical surface tracking -- On feature selection via rough sets -- Tree neural classifier for character recognition -- Multiscale extraction of features from medical images -- Line representation of elongated shapes -- Fast computation of 3-D geometric moments using a discrete Gauss' theorem -- On the group algebras' hierarchy pertaining to the parametrization of fast algorithms of Discrete Orthogonal Transforms -- Understanding of ridge-valley lines on image-intensity surfaces in scale-space -- Computer analysis and recognition of cognitive phase space electro-cardio graphic image -- A new algorithm for probabilistic relaxation based on the Baum Eagon theorem -- Segmentation and estimation of the optical flow -- Automated detection of fluorescent cells and measurement of their DNA-content -- A highly selective HT based algorithm for detecting extended, almost rectilinear shapes -- Object modelling and collision avoidance using Clifford algebra -- Joint invariants of a triplet of coplanar conics: Stability and discriminating power for object recognition -- Using mirror cameras for estimating depth -- Combining head tracking and pupil monitoring in vision-based human-computer interaction -- Active-camera calibration using iterative image feature localization -- The projective invariants for polygons -- A multi-model image line reconstruction -- Tools for automatic recognition of character strings in maps -- Towards higher decimation ratios -- A representation of digital planes by least square fits -- A supervised approach to the evaluation of image segmentation methods -- Experimental investigation on editing for the k-NN rule through a genetic algorithm -- Heterogeneous morphing of multimodal medical information -- Recognition and pose determination of 3-D objects using multiple views -- Bayesian extraction of differential surface structure -- A proposal for the implementation of a parallel watershed algorithm -- A neural network energy minimization approach to approximation of 2-dimensional shapes -- Visual detection of defects in moulded plastic drippers -- Segmentation modeling -- Inverting the reflectance map

with binary search -- Feature selection for the tree-wavelet transform -- Performance comparison of a deterministic and a stochastic method for image classification -- Advances in the statistical methodology for the selection of image descriptors for visual pattern representation and classification -- Affine stereo calibration -- Triple features for linear distorted images -- Finding postirradiation reaction in lungs from digitized X-rays -- Estimating time to contact with curves, avoiding calibration and aperture problem -- Constraining probabilistic relaxation with symbolic attributes -- Local Fourier phase and disparity estimates: An analytical study -- Direct obstacle detection and motion from spatio-temporal derivatives -- Direct estimation of rotation from two frames via epipolar search -- Dynamic character recognition using an elastic matching -- Visual robot guidance for an insertion task -- Robust surface reconstruction from stereo SEM images -- Adaptive wavelets for signal analysis -- A common framework for preattentive and attentive vision using steerable filters -- Static global scheduling for optimal computer vision and image processing operations on distributed-memory multiprocessors -- Robust patch concept for egomotion estimation -- Parallel thinning algorithm based on the wave propagation's model -- Film editing reconstruction and semantic analysis -- Measuring time-to-contact using active camera control -- The Color Constancy Problem: An illumination invariant mapping approach.

Sommario/riassunto

This book presents the proceedings of the Sixth International Conference on Computer Analysis of Images and Patterns, CAIP '95, held in Prague, Czech Republic in September 1995. The volume presents 61 full papers and 75 posters selected from a total of 262 submissions and thus gives a comprehensive view on the state-of-the-art in computer analysis of images and patterns, research, design, and advanced applications. The papers are organized in sections on invariants, segmentation and grouping, optical flow, model recovery and parameter estimation, low level vision, motion detection, structure and matching, active vision and shading, human face recognition, calibration, contour, and sessions on applications in diverse areas.