

1. Record Nr.	UNINA9910483715003321
Titolo	Image Analysis and Recognition : Third International Conference, ICIAR 2006, Póvoa de Varzim, Portugal, September 18-20, 2006, Proceedings, Part I // edited by Aurélio Campilho, Mohamed Kamel
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006
ISBN	3-540-44893-4
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (XXVIII, 939 p.)
Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics, , 3004-9954 ; ; 4141
Altri autori (Persone)	CampilhoA KamelMohamed
Disciplina	621.36/7
Soggetti	Pattern recognition systems Computer vision Image processing - Digital techniques Artificial intelligence Computer graphics Algorithms Automated Pattern Recognition Computer Vision Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence Computer Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Session -- Self-Organizing Trees and Forests: A Powerful Tool in Pattern Clustering and Recognition -- On Optimizing Dissimilarity-Based Classification Using Prototype Reduction Schemes -- Image Restoration and Enhancement -- General Adaptive Neighborhood Image Restoration, Enhancement and Segmentation -- Frozen-State Hierarchical Annealing -- Fast and Robust Filtering-Based Image Magnification -- An Efficient Post-processing Using DCT Domain Projections Onto Convex Sets -- Rank-Ordered Differences Statistic Based Switching Vector Filter -- Mathematical Analysis of "Phase

Ramping" for Super-Resolution Magnetic Resonance Imaging -- Blind
Blur Estimation Using Low Rank Approximation of Cepstrum -- An
Image Interpolation Scheme for Repetitive Structures -- A
Discontinuous Finite Element Method for Image Denoising -- An Edge-
Preserving Multigrid-Like Technique for Image Denoising -- Fuzzy
Bilateral Filtering for Color Images -- MPEG Postprocessing System
Using Edge Signal Variable Filter -- Computational Framework for
Family of Order Statistic Filters for Tensor Valued Data -- Gaussian
Noise Removal by Color Morphology and Polar Color Models -- Image
Segmentation -- A Shape-Based Approach to Robust Image
Segmentation -- Novel Statistical Approaches to the Quantitative
Combination of Multiple Edge Detectors -- Bio-inspired Motion-Based
Object Segmentation -- An Effective and Fast Scene Change Detection
Algorithm for MPEG Compressed Videos -- Automatic Segmentation
Based on AdaBoost Learning and Graph-Cuts -- Accurate Contour
Detection Based on Snakes for Objects with Boundary Concavities --
Graph-Based Spatio-temporal Region Extraction -- Performance
Evaluation of Image Segmentation -- Improvement of Image Transform
Calculation Based on a Weighted Primitive -- Topological Active
Nets Optimization Using Genetic Algorithms -- An Evaluation Measure
of Image Segmentation Based on Object Centres -- Active Shape Model
Based Segmentation and Tracking of Facial Regions in Color Images --
Image and Video Processing and Analysis -- On the Adaptive Impulsive
Noise Attenuation in Color Images -- A Simple Method for Designing
2D /M/-Channel Near-PR Filter Banks with Linear Phase Property --
Fast Hermite Projection Method -- Posterior Sampling of Scientific
Images -- Image Denoising Using the Lyapunov Equation from Non-
uniform Samples -- New Method for Fast Detection and Removal of
Impulsive Noise Using Fuzzy Metrics -- Background Subtraction
Framework Based on Local Spatial Distributions -- Morphological Image
Interpolation to Magnify Images with Sharp Edges -- Adaptive Kernel
Based Tracking Using Mean-Shift -- Real Time Sobel Square Edge
Detector for Night Vision Analysis -- A New Video Images Text
Localization Approach Based on a Fast Hough Transform -- Video
Sequence Matching Using Singular Value Decomposition -- The
Papoulis-Gerchberg Algorithm with Unknown Signal Bandwidth --
Image and Video Coding and Encryption -- Continuous Evolution of
Fractal Transforms and Nonlocal PDE Imaging -- A Fast Algorithm for
Macroblock Mode Selection in H.264 Video Coding -- Visual Secret
Sharing Scheme: Improving the Contrast of a Recovered Image Via
Different Pixel Expansions -- Fast and Efficient Basis Selection Methods
for Embedded Wavelet Packet Image Coding -- Fractal Image Coding as
Projections Onto Convex Sets -- DCT-Domain Predictive Coding
Method for Video Compression -- Simple Detection Method and
Compensation Filter to Remove Corner Outlier Artifacts -- Rate Control
Algorithm for High Quality Compression of Static Test Image in Digital
TV System -- JPEG2000-Based Resolution- and Rate-Constrained
Layered Image Coding -- A Permutation-Based Correlation-Preserving
Encryption Method for Digital Videos -- A Fast Scheme for Converting
DCT Coefficients to H.264/AVC Integer Transform Coefficients -- A
Fast Full Search Algorithm for Motion Estimation Using Priority of
Matching Scan -- Using Space-Time Coding for Watermarking Color
Images -- Blind PSNR Estimation of Video Sequences, Through Non-
uniform Quantization Watermarking -- Pattern Recognition Using
Neighborhood Coding -- Image Retrieval and Indexing -- Naming of
Image Regions for User-Friendly Image Retrieval -- Shape Retrieval
Using Shape Contexts and Cyclic Dynamic Time Warping -- Topological
Active Nets for Object-Based Image Retrieval -- Iterative 3-D Pose

Correction and Content-Based Image Retrieval for Dorsal Fin
 Recognition -- Feature Selection for Retrieval Purposes -- DCT-Domain
 Image Retrieval Via Block-Edge-Patterns -- Visual Aspect: A Unified
 Content-Based Collaborative Filtering Model for Visual Document
 Recommendation -- IntelliSearch: Intelligent Search for Images and
 Text on the Web -- Automatic Shot-Change Detection Algorithm Based
 on Visual Rhythm Extraction -- Motion Analysis -- Global Motion
 Estimation: Feature-Based, Featureless, or Both ?! -- Background
 Updating with the Use of Intrinsic Curves -- Towards a New Paradigm
 for Motion Extraction -- Fast Motion Estimation Using Spatio Temporal
 Filtering -- Optic Flow from Multi-scale Dynamic Anchor Point
 Attributes -- The Effect of Presmoothing Image Sequences on the
 Computation of Optical Flow -- Optical Flow Based Frame Interpolation
 of Ultrasound Images -- An Iterative Multiresolution Scheme for SFM --
 Occlusion-Based Accurate Silhouettes from Video Streams -- Tracking
 -- Towards Constrained Optimal 3D Tracking -- A Generic Approach to
 Object Matching and Tracking -- Image Based Visual Servoing: A New
 Method for the Estimation of the Image Jacobian in Dynamic
 Environments -- QP_TR Trust Region Blob Tracking Through Scale-
 Space with Automatic Selection of Features -- Human Posture Analysis
 Under Partial Self-occlusion -- Particle Filtering with Dynamic Shape
 Priors -- The OBSERVER: An Intelligent and Automated Video
 Surveillance System -- A Novel Spatio-temporal Approach to Handle
 Occlusions in Vehicle Tracking -- A Robust Particle Filter-Based Face
 Tracker Using Combination of Color and Geometric Information.

Sommario/riassunto

ICIAR 2006, the International Conference on Image Analysis and
 Recognition, was the third ICIAR conference, and was held in P'ovo
 de Varzim, Portugal. ICIAR is organized annually,
 and alternates between Europe and North America. ICIAR 2004 was held in
 Porto, Portugal and ICIAR 2005 in Toronto, Canada. The idea of offering
 these conferences came as a result of discussion between researchers
 in Portugal and Canada to encourage collaboration and exchange,
 mainly between these two countries,
 but also with the open participation of other countries, addressing recent
 advances in theory, methodology and applications. The response to the
 call for papers for ICIAR 2006 was higher than the two previous
 editions. From 389 full papers submitted, 163 were finally accepted (71
 oral presentations, and 92 posters). The review process was carried out
 by the Program Committee members and other reviewers; all are
 experts in various image analysis and recognition areas. Each paper
 was reviewed by at least two reviewers, and also checked by the
 conference Co-chairs. The high quality of the papers in these
 proceedings is attributed first to the authors, and second to the quality
 of the reviews provided by the experts. We would like to thank the
 authors for responding to our call, and we wholeheartedly thank the
 reviewers for their excellent work and for their timely response. It is
 this collective effort that resulted in the strong conference program and
 high-quality proceedings in your hands.
