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Preface

The excellently received call for papers of the 13th Scandinavian Conference on Image Analysis, June 29–July 2 (SCIA 2003) resulted in the selected articles of this proceedings. Additionally the volume also contains invited contributions from

- Ivar Austvoll, Stavanger University College (NO),
- Lars Bååth, Halmstad University (SE),
- Ewert Bengtsson, Uppsala University (SE),
- Rasmus Larsen, Technical University of Denmark (DK),
- Jussi Parkkinen, University of Joensuu (FI),
- Pietro Perona, California Institute of Technology (US)

which brings the total number of articles to 152.

The theme of the papers are dominated by the categories

- Feature extraction
- Depth and surface
- Medical image processing
- Shape analysis
- Segmentation and spatial grouping
- Coding and representation
- Motion analysis
- Texture analysis
- Color analysis
- Indexing and categorization

which also represent the topical groupings of this book.

The particularly strong response to the *feature extraction*, *depth and surface*, and *medical image processing* themes makes us believe that these areas are currently expansive, partly because of the rich set of problems which remain to be addressed.

The first SCIA was held a quarter of a century ago, even before the organizers of this SCIA started to work in the image analysis field. As such, SCIA proceedings constitute a rare commodity with which to measure the trends and opportunities in image analysis. Few proceedings have such a long tradition in this field. Consequently, a contribution of this book that cannot be ignored lies in its particular diversity, which represents a snapshot of the themes that our fellow image analysis workers have invested their resources in. In an effort to improve the distribution and accessibility of it beyond the time and location of the conference, the proceedings of this SCIA is, for the first time, published outside of the publishing facilities of the Scandinavian universities.

Our own observation is that image analysis as a science is maturing. We see a trend away from a cookbook style collection of recipes to encountered problems toward more general theories and methods verified by independent applications. It is likely that image analysis science will continue to enable technical systems to come up with many more solutions that will matter to humanity. We hope that this book will contribute to image analysis in that sense.

Last, but not least, we gratefully acknowledge the contributions of the Program Committee, the external reviewers, and the sponsoring organizations.

May 2003

Josef Bigun and Tomas Gustavsson

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The Scandinavian conference SCIA 2003 was organized by the Swedish universities



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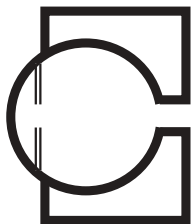
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Table of Contents

Invited

The Emergence of Visual Categories – A Computational Perspective	1
<i>Pietro Perona</i>	

Feature Extraction I

Multiresolution Texture Analysis of Surface Reflection Images	4
<i>Leena Lepistö, Iivari Kunttu, Jorma Autio, Ari Visa</i>	
Robust Multi-scale Extraction of Blob Features	11
<i>Per-Erik Forssén, Gösta Granlund</i>	
Orientation Fields Filtering by Derivatives of a Gaussian	19
<i>Josef Bigun, Tomas Bigun, Kenneth Nilsson</i>	
Character Prototyping in Document Images Using Gabor Filters	28
<i>Bénédicte Allier, Hubert Emptoz</i>	
3D-Orientation Space; Filters and Sampling	36
<i>Frank G.A. Faas, Lucas J. van Vliet</i>	
End-Stop Exemplar Based Recognition	43
<i>Søren I. Olsen</i>	
Quadtree Decomposition Texture Analysis in Paper Formation Determination	51
<i>Erik Lieng</i>	
A Note on Evaluation of Image Recognition Systems	60
<i>Herbert Tesser, Theron Trout</i>	

Depth and Surface I

Curvature Consistency for Shape-from-Shading	67
<i>Fabio Sartori, Edwin R. Hancock</i>	
An Extended Perspective Three Points Problem	75
<i>Yong Liu, Claus B. Madsen, Moritz Störring</i>	
Omnidirectional Camera Model and Epipolar Geometry Estimation by RANSAC with Bucketing	83
<i>Branislav Mičušík, Tomáš Pajdla</i>	

Auto Camera Calibration Method for Person Tracking Applications	91
<i>Bruno Merven, Fred Nicolls, Gerhard de Jager</i>	

Dense Stereomatching Algorithm Performance for View Prediction and Structure Reconstruction	101
<i>Jana Kostková, Jan Čech, Radim Šára</i>	

Invited

To See What You Cannot See	108
<i>Lars B. Bååth</i>	

Feature Extraction, Shape Analysis

Photo-Identification of Humpback and Gray Whales Using Affine Moment Invariants	109
<i>N. Kehtarnavaz, V. Peddigari, C. Chandan, W. Syed, G. Hillman, B. Wursig</i>	

Environmental Monitoring Using Image Analysis	117
<i>Alexey Anufriev, Heikki Kälviäinen, Arto Kaarna</i>	

Robust Curve Detection Using a Radon Transform in Orientation Space	125
<i>Michael van Ginkel, M.A. Kraaijveld, Lucas J. van Vliet, E.P. Reding, P.W. Verbeek, H.J. Lammers</i>	

Similarity Measure for Corner Redetection	133
<i>Christoph Stock, Axel Pinz</i>	

An Integrated System for Automatic Face Recognition	140
<i>Maria Paola De Rosa, Alessandro Micarelli, Giuseppe Sansonetti</i>	

New Geometric Transform Based on Stochastic Geometry in the Context of Pattern Recognition	148
<i>Nikolay Fedotov, Lyudmila Shulga</i>	

Modeling of Pose Effects in Oriented Filter Responses for Head Pose Estimation	156
<i>Ilkka Kalliomäki, Jouko Lampinen</i>	

Segmentation of Faces in Video Footage Using Controlled Weights on HSV Color	163
<i>Osamu Ikeda</i>	

Bidimensional Empirical Mode Decomposition Modified for Texture Analysis	171
<i>Jean Claude Nunes, Oumar Niang, Yasmina Bouaoune, Eric Delechelle, Philippe Bunel</i>	

Primitive and Point Configuration Texture Model and Primitive Estimation Using Mathematical Morphology	178
<i>Akira Asano, Takeshi Ohkubo, Mitsuji Muneyasu, Takao Hinamoto</i>	
Experimentation on the Use of Chromaticity Features, Local Binary Pattern, and Discrete Cosine Transform in Colour Texture Analysis	186
<i>Padmapriya Nammalwar, Ovidiu Ghita, Paul F. Whelan</i>	
Learning an Object Model for Feature Matching in Clutter	193
<i>Toni Tamminen, Jouko Lampinen</i>	
Curvature Dependent Skeletonization	200
<i>Andrea Torsello, Edwin R. Hancock</i>	
Detecting Distinguished Regions by Saliency	208
<i>Friedrich Fraundorfer, Horst Bischof</i>	
Horizon Picking in 3D Seismic Images	216
<i>Maria Faraklioti, Maria Petrou</i>	
Temporal Dynamical Interactions between Multiple Layers of Local Image Features for Event Detection in Video Sequences	223
<i>Daniel Kottow, Mario Köppen, Javier Ruiz-del-Solar</i>	
Iterative Orientation Tuning in V1: A Simple Cell Circuit with Cross-Orientation Suppression	232
<i>Marina Kolesnik, Alexander Barlit</i>	
Automatic Reconstruction of Silhouettes Using B-Splines	239
<i>Sonja Glas, Gabriel Recatalá, Michael Sorg</i>	
Estimation of Curvature along Curves with Application to Fibres in 3D Images of Paper	247
<i>David Coeurjolly, Stina Svensson</i>	
Registration of Seal Images Using Contour Analysis	255
<i>Yung-Sheng Chen</i>	
Estimation of Curvature Based Shape Properties of Surfaces in 3D Grey-Value Images	262
<i>Bernd Rieger, Lucas J. van Vliet, Piet W. Verbeek</i>	
A Framework for the Analysis of Majority Voting	268
<i>Anand M. Narasimhamurthy</i>	
Multiple Genetic Snakes for People Segmentation in Video Sequences	275
<i>Lucia Ballerini</i>	

Structure-Preserving Segmentation of Individual Tree Crowns by Brownian Motion	283
<i>Mats Erikson</i>	
Extracting Symbolic Descriptors for Interactive Object Retrieval	290
<i>Jochen Wickel, Pablo Alvarado, Karl-Friedrich Kraiss</i>	
Soft Morphological Filtering of Spectral Images	298
<i>Sami Lakaniemi, Pekka Toivanen, Ville Kyrki</i>	
Shortest Route on Gray-Level Map Using Distance Transform on Curved Space	305
<i>Leena Ikonen, Pekka Toivanen, Janne Tuominen</i>	
Segmentation and Free Space Detection Using Gabor Filters	311
<i>Tadayoshi Shioyama, Haiyuan Wu, Masaya Takebe, Naoya Shimaoka</i>	

Coding and Representation

Digital Watermarking of Spectral Images with Three-Dimensional Wavelet Transform	320
<i>Arto Kaarna, Jussi Parkkinen</i>	
Context Clustering in Lossless Compression of Gray-Scale Image	328
<i>Mantao Xu, Pasi Fränti</i>	
Anatomical Coordinate System for Bilateral Registration of Mammograms	335
<i>Fredrik Georgsson</i>	
Image Segmentation Using Dynamic Run-Length Coding Technique	343
<i>William O. McCallister, Chih-Cheng Hung</i>	
Defect Image Classification and Retrieval with MPEG-7 Descriptors	349
<i>Jussi Pakkanen, Antti Ilvesmäki, Jukka Iivarinen</i>	

Motion Analysis

Two-Dimensional Channel Representation for Multiple Velocities	356
<i>Hagen Spies, Per-Erik Forssén</i>	
Two-Frame Motion Estimation Based on Polynomial Expansion	363
<i>Gunnar Farnebäck</i>	
Tracking the Pose of Objects through Subspace	371
<i>Simon Léonard, Martin Jägersand</i>	

An Automatic Traffic Surveillance System for Vehicle Tracking and Classification	379
<i>Shih-Hao Yu, Jun-Wei Hsieh, Yung-Sheng Chen, Wen-Fong Hu</i>	

Affine Structure from Translational Motion in Image Sequences	387
<i>Pär Hammarstedt, Fredrik Kahl, Anders Heyden</i>	

Invited

Computerized Cell Image Analysis: Past, Present, and Future	395
<i>Ewert Bengtsson</i>	

Medical Image Processing

Segmentation of Cell Nuclei in Tissue by Combining Seeded Watersheds with Gradient Information.....	408
<i>Carolina Wählby, Ewert Bengtsson</i>	

Automated Interpretation of Ventilation-Perfusion Lung Scintigrams for the Diagnosis of Pulmonary Embolism Using Support Vector Machines	415
<i>Anders Ericsson, Amelié Huart, Andreas Ekefjård, Kalle Åström, Holger Holst, Eva Evander, Per Wollmer, Lars Edenbrandt</i>	

Model Based Segmentation for Retinal Fundus Images	422
<i>Li Wang, Abhir Bhalerao</i>	

A Multiscale Decomposition Approach to Gel Image Interpretation	430
<i>Xiaoran Mo, Roland Wilson</i>	

Fast 3D Mean Shift Filter for CT Images	438
<i>Gustavo Fernández Domínguez, Horst Bischof, Reinhard Beichel</i>	

Analysing the Curvature of the Pectoralis Muscle in Mammograms	446
<i>Christina Olsén</i>	

ASM Driven Snakes in Rheumatoid Arthritis Assessment	454
<i>Georg Langs, Philipp Peloschek, Horst Bischof</i>	

Segmentation of T1-MRI of the Human Cortex Using a 3D Grey-Level Morphology Approach	462
<i>Roger Hult</i>	

Depth and Surface II

Generalized Use of Homographies for Piecewise Planar Reconstruction ...	470
<i>Konrad Schindler</i>	

Rough Surface Estimation Using the Kirchhoff Model.....	477
<i>Hossein Ragheb, Edwin R. Hancock</i>	

Normalized Averaging Using Adaptive Applicability Functions with Applications in Image Reconstruction from Sparsely and Randomly Sampled Data	485
<i>Tuan Q. Pham, Lucas J. van Vliet</i>	
Consistent Multi-view Reconstruction from Epipolar Geometries with Outliers	493
<i>Daniel Martinec, Tomáš Pajdla</i>	
A Comparison of Viewing Geometries for Augmented Reality	501
<i>Dana Cobzas, Martin Jägersand</i>	

Invited

Some Issues of Biological Shape Modelling with Applications	509
<i>Rasmus Larsen, Klaus Baggesen Hilger, Karl Skoglund, Surre Darkner, Rasmus R. Paulsen, Mikkel B. Stegmann, Brian Lading, Hans Henrik Thodberg, Hrafnkell Eiríksson</i>	

Medical Image Processing, Depth and Surface

Protein Spot Detection by Symmetry Derivatives of Gaussians	520
<i>Martin Persson, Josef Bigun</i>	
Reconstructing the Optical Thickness from Hoffman Modulation Contrast Images	526
<i>Niels Holm Olsen, Jon Sparring, Mads Nielsen, Christina Hnida, Søren Ziebe</i>	
A Robust Medical Image Recognition System Employing Edge-Based Feature Vector Representation	534
<i>Masakazu Yagi, Tadashi Shibata, Chihiro Tanikawa, Kenji Takada</i>	
Information Technology for the Morphological Analysis of the Lymphoid Cell Nuclei	541
<i>Igor Gurevich, Dmitry Harazishvili, Irina Jernova, Andrei Khilkov, Alexey Nefyodov, Ivan Vorobjev</i>	
Illumination Correction from Psoriasis Image Data	549
<i>Gabriela Maletti, Bjarne Ersbøll</i>	
Building an Image-Based System to Automatically Score Psoriasis	557
<i>David Delgado Gomez, Jens Michael Carstensen, Bjarne Ersbøll, Lone Skov, Bo Bang</i>	
Automated Interpretation of Cardiac Scintigrams	565
<i>Jens Richter, Anders Ericsson, Kalle Åström, Fredrik Kahl, Lars Edenbrant</i>	

Estimating Motion in Ultrasound Images of the Small Bowel: Optical Flow without Image Structure	571
<i>David H. Cooper, Bo René Madsen, Jim Graham</i>	
3D Wiener Filtering to Reduce Reverberations in Ultrasound Image Sequences	579
<i>Nina Eriksson Bylund, Marcus Rössner, Hans Knutsson</i>	
Segmentation of Laparoscopic Images for Computer Assisted Surgery	587
<i>Jonathan Boisvert, Farida Cheriet, Guy Grimard</i>	
Segmentation of Histopathological Sections Using Snakes	595
<i>Adam Karlsson, Kent Stråhlén, Anders Heyden</i>	
3D-Color-Structure-Code – A Hierarchical Region Growing Method for Segmentation of 3D-Images	603
<i>Patrick Sturm, Lutz Pries</i>	
Bucketing Techniques in Robust Regression for Computer Vision	609
<i>Ariel Choukroun, Vincent Charvillat</i>	
Tracking Human Heads Based on Interaction between Hypotheses with Certainty	617
<i>Akihiro Sugimoto, Kiyotake Yachi, Takashi Matsuyama</i>	
Two Linear Methods for Camera Calibration and Their Applications to Augmented Reality and 3D Reconstruction	625
<i>Jang-Hwan Im, Ji-Hong Min, Hyung-Soo Ohk, Jong-Soo Choi</i>	
PDE Based Surface Estimation for Structure from Motion	632
<i>Henrik Aanæs, Rasmus Larsen, J. Andreas Bærentzen</i>	
An Improved Variogram Analysis of the Maximum Expected Disparity in Stereo Images	640
<i>Bogusław Cyganek, Jan Borgosz</i>	
Detection of Strong Shadows in Monochromatic Video Streams	646
<i>Christian Bräuer-Burchardt</i>	
Image Matching Using Distance Transform	654
<i>Abdul Ghafoor, Rao Naveed Iqbal, Shoab Khan</i>	
Contour/Texture Approach for Visual Tracking	661
<i>Lucie Masson, Frédéric Jurie, Michel Dhome</i>	
Simplified Vehicle Calibration Using Multilinear Constraints	669
<i>Henrik Stewenius</i>	

A Single-Scan Algorithm for Connected Components Labelling in a Traffic Monitoring Application	677
<i>Alessandro Bevilacqua, Alessandro Lanza, Giorgio Baccarani, Riccardo Rovatti</i>	
Simultaneous Inpainting and Motion Estimation of Highly Degraded Video-Sequences	685
<i>Jean Pierre Cocquerez, Laurent Chanas, Jacques Blanc-Talon</i>	
Reconstruction of Linearly Parameterized Models from a Single Image Using the Vanishing Points	693
<i>Yong-In Yoon, Jang-Whan Im, Dae-Hyun Kim, Jong-Soo Choi, Jeong-Su Oh</i>	
Generalizing the Virtual Camera Pose for View Synthesis	701
<i>Enric X. Martín, Antonio B. Martínez</i>	
Structure Estimation and Surface Triangulation of Deformable Objects . .	709
<i>Charlotte Svensson, Henrik Aanæs, Fredrik Kahl</i>	
3-D Modeling of an Outdoor Scene from Multiple Image Sequences by Estimating Camera Motion Parameters	717
<i>Tomokazu Sato, Masayuki Kanbara, Naokazu Yokoya</i>	

Feature Extraction II

Crossing Line Profile: A New Approach to Detecting Defects in Aluminium Die Castings	725
<i>Domingo Mery</i>	
On 3D Scanning, Reconstruction, Enhancement, and Segmentation of Logs	733
<i>Katarina Flood, Per-Erik Danielsson, Maria Magnusson Seger</i>	
Loglets: Generalized Quadrature and Phase for Local Spatio-Temporal Structure Estimation	741
<i>Hans Knutsson, Mats Andersson</i>	
Image Decomposition by Radial Basis Functions	749
<i>Jens D. Andersen</i>	
Anisotropic Channel Filtering	755
<i>Michael Felsberg, Gösta Granlund</i>	

Shape Analysis I

2D Grey-Level Convex Hull Computation: A Discrete 3D Approach	763
<i>Ingela Nyström, Gunilla Borgefors, Gabriella Sanniti di Baja</i>	

Modelling of Shapes without Landmarks	771
<i>Felix Wehrmann, Ewert Bengtsson</i>	
Polygonal Approximation of Closed Contours	778
<i>Alexander Kolesnikov, Pasi Fränti</i>	
Modeling Knot Geometry in Norway Spruce from Industrial CT Images	786
<i>Jean-Philippe Andreu, Alfred Rinnhofer</i>	
Qualitative Characterization and Use of Prior Information	792
<i>Martin Eriksson, Stefan Carlsson</i>	
Invited	
Spectral Color Imaging	800
<i>Jussi Parkkinen</i>	
Color Analysis	
A 3D-Polar Coordinate Colour Representation Well Adapted to Image Analysis	804
<i>Allan Hanbury</i>	
Enhanced Model for Chromaticity Differences	812
<i>Toni Kuparinen, Arto Kaarna, Pekka Toivanen</i>	
Using Real Shadows to Create Virtual Ones	820
<i>Claus B. Madsen</i>	
Shape Analysis II	
Surface Shape from Specularities	828
<i>Jan Erik Solem, Anders Heyden</i>	
Matching Occluded Objects Invariant to Rotations, Translations, Reflections, and Scale Changes	836
<i>Yasser El-Sonbaty, M.A. Ismail</i>	
A Fuzzy Connectivity Tree for Hierarchical Extraction of Venous Structures	844
<i>Silvana Dellepiane, Lorena Novelli, Michele Bruzzo, Marco Antonelli</i>	
Measuring Perimeter and Area in Low Resolution Images Using a Fuzzy Approach	853
<i>Nataša Sladoje, Ingela Nyström, Punam K. Saha</i>	
Probabilistic Generative Modelling	861
<i>Rasmus Larsen, Klaus Baggesen Hilger</i>	

Texture Analysis

Supervised Segmentation of Volume Textures Using 3D Probabilistic Relaxation	869
<i>Matthew Deighton, Maria Petrou</i>	
Modification of Spatial Distribution in Primitive and Point Configuration Texture Model	877
<i>Yasushi Kobayashi, Akira Asano</i>	
Multi-scale Binary Patterns for Texture Analysis	885
<i>Topi Mäenpää, Matti Pietikäinen</i>	
Perceptual Organization of Directional Primitives Using a Pseudocolor Hough Transform	893
<i>Marta Penas, María J. Carreira, Manuel G. Penedo</i>	
Object Recognition under Various Lighting Conditions	899
<i>Yasushi Makihara, Masao Takizawa, Yoshiaki Shirai, Nobutaka Shimada</i>	

Invited

Filter Banks, Wavelets, and Frames with Applications in Computer Vision and Image Processing (A Review)	907
<i>Ivar Austvoll</i>	

Motion Analysis, Color Analysis

Bottom Reflectance Influence on a Color Correction Algorithm for Underwater Images	922
<i>Julia Åhlen, David Sundgren</i>	
Searching Technique in a Spectral Image Database	927
<i>Markku Hauta-Kasari, Kanae Miyazawa, Jussi Parkkinen, Timo Jaaskelainen</i>	
Color Image Segmentation Using a Model-Based Clustering and a MFA-EM Algorithm	934
<i>Jong-Hyun Park</i>	
Detection of Vehicles Using Gabor Filters and Affine Moment Invariants from an Image	942
<i>Tadayoshi Shioyama, Haiyuan Wu, Atsushi Iwai</i>	
Adaptive Spatial and Temporal Prefiltering for Video Compression	953
<i>Astrid Lundmark, Leif Haglund</i>	

A Comparison of Digital Length Estimators for Image Features	961
<i>Vivian Toh, Chris A. Glasbey, Alison J. Gray</i>	
Detecting Moving Objects with an Omnidirectional Camera Based on Adaptive Background Subtraction	969
<i>Kazumasa Yamazawa, Naokazu Yokoya</i>	
Implementation of Linear Prediction Models for Lossless Compression of Hyperspectral Images in Novel Parallel Environments . . .	975
<i>Jarno Mielikäinen, Pekka Toivanen</i>	
Techniques for Parallel Execution of the Particle Filter	983
<i>Ole-Christoffer Granmo, Frank Eliassen, Olav Lysne, Viktor S. Wold Eide</i>	
Efficient Image Matching Algorithms Based on Procedures of Searching for 2D Templates	991
<i>Alexey V. Nefyodov</i>	
Implementation of the USB Token System for Fingerprint Verification . . .	998
<i>Daesung Moon, Youn Hee Gil, Sung Bum Pan, Yongwha Chung</i>	
Method for Image Informational Properties Exploitation in Pattern Recognition Environment	1006
<i>Irina Koryabkina</i>	
LWDOS: Language for Writing Descriptors of Outline Shapes	1014
<i>Slimane Larabi, Saliha Bouagar, Felix M. Trespadarne, Eusebio Lopez de la Fuente</i>	
Real-Time Tracking of Video Sequences in a Panoramic View for Object-Based Video Coding	1022
<i>Matthijs Douze, Vincent Charvillat</i>	
Bootstrapping Sequential Monte Carlo Tracking	1030
<i>Thomas B. Moeslund, Erik Granum</i>	
Tracking Weather Storms Using 3D Doppler Radial Velocity Information	1038
<i>Xiaolai Tang, John L. Barron, Robert E. Mercer, Paul Joe</i>	
Using Optical Flow as Evidence for Probabilistic Tracking	1044
<i>M.J. Lucena, J.M. Fuertes, N. Perez de la Blanca, A. Garrido</i>	
Extraction of Multiple Motion Trajectories in Human Motion	1050
<i>Junghye Min, Jin Hyeong Park, Rangachar Kasturi</i>	
Predicting Detection Events from Bayesian Scene Recognition	1058
<i>Georg Ogris, Lucas Paletta</i>	

On the Similarity Based Impulsive Noise Removal Technique for Multichannel Images	1066
<i>Bogdan Smolka</i>	

Panoramic Movie Generation Using an Omnidirectional Multi-camera System for Telepresence.....	1074
<i>Sei Ikeda, Tomokazu Sato, Naokazu Yokoya</i>	

Polarimetric Synthetic Aperture Radar Data and the Complex Wishart Distribution	1082
<i>Allan Aasbjerg Nielsen, Knut Conradsen, Henning Skriver</i>	

Indexing and Categorization

Binary Co-occurrence Matrix in Image Database Indexing.....	1090
<i>Ivari Kunttu, Leena Lepistö, Juhani Rauhamaa, Ari Visa</i>	

Color-Based Image Retrieval from High-Similarity Image Databases	1098
<i>Michael Edberg Hansen, Jens Michael Carstensen</i>	

Using Image Segments in PicSOM CBIR System	1106
<i>Mats Sjöberg, Jorma Laaksonen, Ville Viitaniemi</i>	

Image Retrieval Using Mixture Models and EM Algorithm	1114
<i>Micheline Najjar, Christophe Ambroise, Jean Pierre Cocquerez</i>	

Finding Object Categories in Cluttered Images Using Minimal Shape Prototypes	1122
<i>Johan Thuresson, Stefan Carlsson</i>	

Segmentation and Spatial Grouping

Automatic Extraction of Object Region from Photographs	1130
<i>Takeshi Saitoh, Kimiya Aoki, Toyohisa Kaneko</i>	

Stroke Segmentation in Infrared Reflectograms	1138
<i>Paul Kammerer, Georg Langs, Robert Sablatnig, Ernestine Zolda</i>	

Multi-oriented English Text Line Identification	1146
<i>U. Pal, S. Sinha, B.B. Chaudhuri</i>	

A Modified Fast Marching Method	1154
<i>Per-Erik Danielsson, Qingfen Lin</i>	

Texture Classification by Combining Local Binary Pattern Features and a Self-Organizing Map	1162
<i>Markus Turtinen, Topi Mäenpää, Matti Pietikäinen</i>	

Author Index	1171
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