Enter Search Query Search Advanced Search

Home | Digital Library | Site Map | Store | Contact Us | Press Room | Shopping Cart | Help | **Login**

digital library

DIGITAL LIBRARY HOME

BROWSE BY TITLE

BROWSE BY SUBJECT

SEARCH

LIBRARY/INSTITUTION RESOURCES

RESOURCES

SUBSCRIPTION

ABOUT THE DIGITAL LIBRARY

Archive Page >> Table of Contents

18th International Conference on Pattern Recognition (ICPR'06)

Introduction

Message from the ICPR2006 General Co-Chairs (PDF)
p. xxv
ABSTRACT PDF

Message from the President of IAPR (PDF)
p. xxvi
ABSTRACT PDF

ICPR2006 Organizing Committee (PDF)
p. xxvii
ABSTRACT PDF

ICPR2006 Technical Chairs (PDF)
p. xxviii
ABSTRACT PDF

ICPR2006 Program Committee (PDF)
p. xxix
ABSTRACT PDF

ICPR2006 Additional Reviewers (PDF)
p. xxxv
ABSTRACT PDF

IAPR Member Societies and Members of the Governing Board (PDF)
p. xxxvi

Download Issue Citations
Ascii Text
BibTex
Refworks
Procite/RefMan/Endnote

Free access to

- Abstracts
- Selected PDFs

Electronic subscribers log in to

- Access HTML/PDFs of full text articles
- Download full issue (ZIP of PDFs)

Subscription information

Get a Web account

Peer Review Notice

Give us Feedback

ABSTRACT PDF

IAPR Standing Committees (PDF)
p. xxxvii
ABSTRACT PDF

IAPR Technical Committees (PDF)
p. xxxviii
ABSTRACT PDF

Track I: Computer Vision and Image Analysis

Wed-O-I-1: Stereo and Motion II

Dense Estimation of Layer Motions in the Atmosphere (Abstract)
Patrick Heas, IRISA, Universite de Rennes 1, 35042 Rennes Cedex, FRANCE
Etienne Memin, IRISA, Universite de Rennes 1, 35042 Rennes Cedex, FRANCE
Nicolas Papadakis, IRISA, Universite de Rennes 1, 35042 Rennes Cedex, FRANCE

pp. 1-4
ABSTRACT PDF BUY ARTICLE

Motion from Focus (Abstract)
Huynh Quang Huy Viet, Ritsumeikan University
Makoto Sato, Tokyo Institute of Technology
Hiromi T. Tanaka, Ritsumeikan University

pp. 5-10
ABSTRACT PDF BUY ARTICLE

Structural flow smoothing for shape interpolation (Abstract)
Ashish Doshi, University of York, York YO10 5DD, UK
Adrian G. Bors, University of York, York YO10 5DD, UK

pp. 11-14
ABSTRACT PDF BUY ARTICLE

Segment-Based Stereo Matching Using Belief Propagation and a Self-

Adapting Dissimilarity Measure (Abstract)
Andreas Klaus, VRVis Research Center, Graz, Austria
Mario Sormann, VRVis Research Center, Graz, Austria
Konrad Karner, VRVis Research Center, Graz, Austria

pp. 15-18

ABSTRACT PDF BUY ARTICLE

Wed-O-I-2: Object Detection and Recognition

Object Detection with Adaptive Background Model and Margined Sign Cross Correlation (Abstract)
Hironori Yoshimura, Osaka University
Yoshio Iwai, Osaka University
Masahiko Yachida, Osaka University

pp. 19-23

ABSTRACT PDF BUY ARTICLE

Convex Quadratic Programming for Object Localization (Abstract)
Hao Jiang, Simon Fraser University, Burnaby BC, Canada
Mark S. Drew, Simon Fraser University, Burnaby BC, Canada
Ze-Nian Li, Simon Fraser University, Burnaby BC, Canada

pp. 24-27

ABSTRACT PDF BUY ARTICLE

Real-time Object Recognition using Relational Dependency based on Graphical Model (Abstract)
Woo-han Yun, Intelligent Robot Research Division, Korea
Sung Yang Bang, Pohang University of Science and Technology, Korea
Daijin Kim, Pohang University of Science and Technology, Korea

pp. 28-32

ABSTRACT PDF BUY ARTICLE

Tensor Discriminant Analysis for View-based Object Recognition (Abstract)
Yong Wang, Queen Mary, University of London, E1 4NS, United Kingdom
Shaogang Gong, Queen Mary, University of London, E1 4NS, United Kingdom

pp. 33-36

ABSTRACT PDF BUY ARTICLE

Wed-O-I-3a: Tracking

Robust Visual Tracking via Pixel Classification and Integration (Abstract)
Cha Zhang, Microsoft Research, One Microsoft Way, Redmond, WA
Yong Rui, Microsoft Research, One Microsoft Way, Redmond, WA

pp. 37-42

ABSTRACT PDF BUY ARTICLE

A Target Dependent Colorspace for Robust Tracking (Abstract)
Francesc Moreno-Noguer, Institut de Robotica i Inform`atica, UPC-CSIC, Barcelona, Spain
Alberto Sanfeliu, Institut de Robotica i Inform`atica, UPC-CSIC, Barcelona, Spain
Dimitris Samaras, Computer Science Department SUNY Stony Brook, NY 11794-4400, USA

pp. 43-46

ABSTRACT PDF BUY ARTICLE

Robust Appearance-based Tracking using a sparse Bayesian classifier (Abstract)
Shu-Fai Wong, University of Cambridge
Kwan-Yee Kenneth Wong, Hong Kong University
Roberto Cipolla, University of Cambridge

pp. 47-50

ABSTRACT PDF BUY ARTICLE

Multiple Human Objects Tracking in Crowded Scenes (Abstract)
Yao-Te Tsai, National Tsing Hua University
Huang-Chia Shih, National Tsing Hua University
Chung-Lin Huang, National Tsing Hua University

pp. 51-54

ABSTRACT PDF BUY ARTICLE

Multi-User Natural Interaction System based on Real-Time Hand Tracking and Gesture Recognition (Abstract)
Alberto Del Bimbo, University of Florence, Italy
Lea Landucci, University of Florence, Italy
Alessandro Valli, University of Florence, Italy

pp. 55-58

ABSTRACT PDF BUY ARTICLE

Efficient Tracking in 6-DoF based on the Image-Constancy Assumption in 3-D (Abstract)
Wolfgang Sepp, Institute of Robotics and Mechatronics German Aerospace Center (DLR), Germany

pp. 59-62

ABSTRACT PDF BUY ARTICLE

Wed-O-I-3b: Video Analysis and Tracking

Video Completion for Perspective Camera Under Constrained Motion (Abstract)
Yuping Shen, University of Central Florida
Fei Lu, University of Central Florida
Xiaochun Cao, University of Central Florida
Hassan Foroosh, University of Central Florida

pp. 63-66

ABSTRACT PDF BUY ARTICLE

Video Local Pattern based Image Matching for Visual Mapping (Abstract)
Lei Wang, Australia National University, Australia
Hongdong Li, Australia National University, Australia
Richard Hartley, Australia National University, Australia

pp. 67-70

ABSTRACT PDF BUY ARTICLE

Video Synchronization Based on Co-occurrence of Appearance Changes in Video Sequences (Abstract)
Manabu Ushizaki, Tohoku University, Japan

Takayuki Okatani, Tohoku University, Japan
Kochiro Deguchi, Tohoku University, Japan

pp. 71-74
ABSTRACT PDF BUY ARTICLE

Robust Segmentation of Hidden Layers in Video Sequences (Abstract)
Romain Dupont, CERTIS Laboratory, Ecole des Ponts, Paris, France
Olivier Juan, CERTIS Laboratory, Ecole des Ponts, Paris, France
Renaud Keriven, CERTIS Laboratory, Ecole des Ponts, Paris, France

pp. 75-78
ABSTRACT PDF BUY ARTICLE

Multiple Object Tracking Using Local PCA (Abstract)
Csaba Beleznai, Advanced Computer Vision GmbH - ACV Vienna, Austria
Bernhard Fruhstuck, Siemens AG Austria
Horst Bischof, Graz University of Technology, Graz, Austria

pp. 79-82
ABSTRACT PDF BUY ARTICLE

Discriminative Descriptor-Based Observation Model for Visual Tracking (Abstract)
Wen-Yan Chang, Academia Sinica, Taipei, Taiwan
Chu-Song Chen, National Taiwan University, Taiwan
Yi-Ping Hung, National Taiwan University, Taiwan

pp. 83-86
ABSTRACT PDF BUY ARTICLE

Track II: Pattern Recognition and Basic Technologies

Wed-O-II-1a: Pattern Detection

Novel Adaptive Nearest Neighbor Classifiers Based On Hit-Distance (Abstract)
Zhen Lou, Nanjing Univ. of Science and Technology, China
Zhong Jin, Universitat Autonoma de Barcelona Barcelona 08193, Spain

pp. 87-90
ABSTRACT PDF BUY ARTICLE

Emotional Speech Analysis on Nonlinear Manifold (Abstract)
Mingyu You, ZheJiang University, Hangzhou, P.R.CHINA
Chun Chen, ZheJiang University, Hangzhou, P.R.CHINA
Jiajun Bu, ZheJiang University, Hangzhou, P.R.CHINA
Jia Liu, ZheJiang University, Hangzhou, P.R.CHINA
Jianhua Tao, Chinese Academy of Sciences, Beijing, CHINA

pp. 91-94

ABSTRACT PDF BUY ARTICLE

Object Localization Using Input/Output Recursive Neural Networks (Abstract)
Monica Bianchini, DII - Universitli degli Studi di Siena Via Roma, 56 - 53100 Siena - Italy
Marco Maggini, DII - Universitli degli Studi di Siena Via Roma, 56 - 53100 Siena - Italy
Lorenzo Sarti, DII - Universitli degli Studi di Siena Via Roma, 56 - 53100 Siena - Italy

pp. 95-98

ABSTRACT PDF BUY ARTICLE

A Maximum-Likelihood Approach to Symbolic Indirect Correlation (Abstract)
Ashutosh Joshi, Rensselaer Polytechnic Institute,Troy, NY
George Nagy, Rensselaer Polytechnic Institute,Troy, NY
Daniel Lopresti, Lehigh Univ. Bethlehem, PA
Sharad Seth, Univ. of Nebraska, Lincoln, NE

pp. 99-103

ABSTRACT PDF BUY ARTICLE

Basic Concepts For Testing The Torah Code Hypothesis (Abstract)
Robert M. Haralick, City University of New York

pp. 104-109

ABSTRACT PDF BUY ARTICLE

Testing The Torah Code Hypothesis: The Experimental Protocol (Abstract)
Robert M. Haralick, City University of

New York

pp. 110-115

ABSTRACT PDF BUY ARTICLE

Wed-O-II-1b: Pattern Matching Methods I

A Model-based Approach for Rigid Object Recognition (Abstract)
Chee Boon Chong, Curtin University of Technology, Perth, Western Australia
Tele Tan, Curtin University of Technology, Perth, Western Australia
Fee Lee Lim, Curtin University of Technology, Perth, Western Australia

pp. 116-120

ABSTRACT PDF BUY ARTICLE

A Unified Formulation of Invariant Point Pattern Matching (Abstract)
Tiberio S. Caetano, National ICT Australia and Australian National University, Canberra , Australia
Terry Caelli, National ICT Australia and Australian National University, Canberra , Australia

pp. 121-124

ABSTRACT PDF BUY ARTICLE

Efficient Feature Extraction Based on Regularized Uncorrelated Chernoff Discriminant Analysis (Abstract)
A. K. Qin, Nanyang Technological University, Singapore
P. N. Suganthan, Nanyang Technological University, Singapore
M. Loog, The Image Group, IT University of Copenhagen, Denmark

pp. 125-128

ABSTRACT PDF BUY ARTICLE

Minimum Enclosing and Maximum Excluding Machine for Pattern Description and Discrimination (Abstract)
Yi Liu, Ohio State University, Columbus, Ohio
Yuan F. Zheng, Ohio State University, Columbus, Ohio

pp. 129-132

Graph Matching using Interference of Coined Quantum Walks (Abstract)
David Emms, University of York
Edwin Hancock, University of York
Richard Wilson, University of York

pp. 133-136

Dissimilarity-based classification for vectorial representations (Abstract)
Elżbieta Pekalska, School of Computer Science, University of Manchester
Robert P.W. Duin, Delft University of Technology, The Netherlands

pp. 137-140

Wed-P-II-1: Advances in Basic Methodology II

Scale Invariants of Three-Dimensional Legendre Moments (Abstract)
Lee-Yeng Ong, Multimedia University, Malaysia
Chee-Way Chong, Multimedia University, Malaysia
Rosli Besar, Multimedia University, Malaysia

pp. 141-144

An Interweaved HMM/DTW Approach to Robust Time Series Clustering (Abstract)
Jianying Hu, IBM T.J.Watson Research Center, Yorktown Heights, NY
Bonnie Ray, IBM T.J.Watson Research Center, Yorktown Heights, NY
Lanshan Han, Rensselaer Polytechnic Institute, 110 8th Street, Troy, NY

pp. 145-148

Patterns of Co-Linear Equidistant Letter Sequences and Verses (Abstract)
Nachum Bombach, Economist Certified Public Accountant Ramat Gan, Israel
Harold Gans, U.S. Department of

Defense Fort George G. Meade, Maryland, U.S.A.

pp. 149-151

ABSTRACT PDF BUY ARTICLE

Experimental Comparison of Combination Rules using Simulated Data (Abstract)

Hela Zouari, Universite de Rouen, F-76800 Saint-Etienne-du-Rouvray, France
Laurent Heutte, Universite de Rouen, F-76800 Saint-Etienne-du-Rouvray, France
Yves Lecourtier, Universite de Rouen, F-76800 Saint-Etienne-du-Rouvray, France

pp. 152-155

ABSTRACT PDF BUY ARTICLE

Comparative Classifier Aggregation (Abstract)

Ahmad Abdulkader, Microsoft Corporation One Microsoft Way, Redmond, WA
John A. Drakopoulos, Microsoft Corporation One Microsoft Way, Redmond, WA
Qi Zhang, Microsoft Corporation One Microsoft Way, Redmond, WA

pp. 156-159

ABSTRACT PDF BUY ARTICLE

Object Detection Based on Combination of Conditional Random Field and Markov Random Field (Abstract)

Ping Zhong, ATR Lab., National University of Defense Technology, Changsha, Hunan, 410073, China
Runsheng Wang, ATR Lab., National University of Defense Technology, Changsha, Hunan, 410073, China

pp. 160-163

ABSTRACT PDF BUY ARTICLE

CAPTCHA Challenge Tradeoffs: Familiarity of Strings versus Degradation of Images (Abstract)

Sui-Yu Wang, Lehigh University, Bethlehem, PA, USA
Jon L. Bentley, Avaya Labs Research, Basking Ridge, NJ, USA

pp. 164-167

ABSTRACT PDF BUY ARTICLE

A probabilistic model with parsinomious representation for sensor fusion in recognizing activity in pervasive environment (Abstract)
Dung T. Tran, Curtin University of Technology, Western Australia
Dinh Q. Phung, Curtin University of Technology, Western Australia

pp. 168-172

ABSTRACT PDF BUY ARTICLE

The Hidden Birth Dates of Personalities of Genesis (Abstract)
Doron Witztum

pp. 173-176

ABSTRACT PDF BUY ARTICLE

Incremental Construction of Neighborhood Graphs for Nonlinear Dimensionality Reduction (Abstract)
Dongfang Zhao, Western Michigan University
Li Yang, Western Michigan University

pp. 177-180

ABSTRACT PDF BUY ARTICLE

Non-overlapping Distributed Tracking using Particle Filter (Abstract)
Wilson Leoputra, Curtin University of Technology, Perth, Western Australia
Tele Tan, Curtin University of Technology, Perth, Western Australia
Fee Lee Lim, Curtin University of Technology, Perth, Western Australia

pp. 181-185

ABSTRACT PDF BUY ARTICLE

Protein Fold Recognition using a Structural Hidden Markov Model (Abstract)
D. Bouchaffra, Oakland University Rochester, MI
J. Tan, Oakland University Rochester, MI

pp. 186-189

ABSTRACT PDF BUY ARTICLE

A Novel Approach to Very Fast and Noise Robust,Isolated Word Speech Recognition (Abstract)
Ramin Halavati, Sharif University of Technology, Tehran, Iran
Saeed Bagheri Shouraki, Sharif University of Technology, Tehran, Iran
Hossein Tajik, Sharif University of Technology, Tehran, Iran
Arpineh Cholakian, Sharif University of Technology, Tehran, Iran
Mina Razaghpour, Sharif University of Technology, Tehran, Iran

pp. 190-193

ABSTRACT PDF BUY ARTICLE

Separating Reflections from Images Using Kernel Independent Component Analysis (Abstract)
Masaki Yamazaki, Ritsumeikan University
Yen-Wei Chen, Ritsumeikan University
Gang Xu, Ritsumeikan University

pp. 194-197

ABSTRACT PDF BUY ARTICLE

A Generalized K-Means Algorithm with Semi-Supervised Weight Coefficients (Abstract)
Fujiki Morii, Nara Women's University, Nara 630-8506, Japan

pp. 198-201

ABSTRACT PDF BUY ARTICLE

Human Behavior Recognition with Generic Exponential Family Duration Modeling in the Hidden Semi-Markov Model (Abstract)
Thi V. Duong, Curtin University of Technology, Perth, WA
Dinh Q. Phung, Curtin University of Technology, Perth, WA
Hung H. Bui, Curtin University of Technology, Perth, WA
Svetha Venkatesh, Curtin University of Technology, Perth, WA

pp. 202-207

ABSTRACT PDF BUY ARTICLE

Extraction of Consistent Subsets of Descriptors using

Choquet Integral (Abstract)
Jan Rendek, France Telecom R&D and LORIA, CEDEX, France
Laurent Wendling, LORIA-Universite de Nancy I, CEDEX, France

pp. 208-211

ABSTRACT PDF BUY ARTICLE

Statistical Borders for Incremental Mining (Abstract)
Richard Nock, Universite Antilles-Guyane, 97275 Schoelcher, Martinique,France
Pierre-Alain Laur, Universite Antilles-Guyane, 97275 Schoelcher, Martinique,France
Jean-Emile Symphor, Universite Antilles-Guyane, 97275 Schoelcher, Martinique,France

pp. 212-215

ABSTRACT PDF BUY ARTICLE

A fast binary-image comparison method with local-dissimilarity quantification (Abstract)
Etienne Baudrier, Laboratoire CReSTIC, IUT de Troyes, 9, rue de Qu´ebec, 10026 TROYES CEDEX, France
Gilles Millon, Laboratoire CReSTIC, IUT de Troyes, 9, rue de Qu´ebec, 10026 TROYES CEDEX, France
Frederic Nicolier, Laboratoire CReSTIC, IUT de Troyes, 9, rue de Qu´ebec, 10026 TROYES CEDEX, France
Su Ruan, Laboratoire CReSTIC, IUT de Troyes, 9, rue de Qu´ebec, 10026 TROYES CEDEX, France

pp. 216-219

ABSTRACT PDF BUY ARTICLE

Ball Hit Detection in Table Tennis Games Based on Audio Analysis (Abstract)
Bin Zhang, Tsinghua University, Beijing, China
Weibei Dou, Tsinghua University, Beijing, China
Liming Chen, LIRIS CNRS UMR 5205 Ecole Centrale de Lyon , France

pp. 220-223

ABSTRACT PDF BUY ARTICLE

A two-stage outlier rejection strategy for numerical field extraction in handwritten

documents (Abstract)
Clement Chatelain, Laboratoire LITIS, 76800 Saint Etienne du Rouvray, FRANCE
Laurent Heutte, Laboratoire LITIS, 76800 Saint Etienne du Rouvray, FRANCE
Thierry Paquet, Laboratoire LITIS, 76800 Saint Etienne du Rouvray, FRANCE

pp. 224-227

ABSTRACT PDF BUY ARTICLE

A Time Warping Based Approach for Video Copy Detection (Abstract)
Chih-Yi Chiu, Institute of Information Science, Academia Sinica, Taiwan
Cheng-Hung Li, Institute of Information Science, Academia Sinica, Taiwan
Hsiang-An Wang, Institute of Information Science, Academia Sinica, Taiwan
Chu-Song Chen, Institute of Information Science, Academia Sinica, Taiwan
Lee-Feng Chien, Institute of Information Science, Academia Sinica, Taiwan

pp. 228-231

ABSTRACT PDF BUY ARTICLE

Local Behaviours Labelling for Content Based Video Copy Detection (Abstract)
Julien Law-To, INA / INRIA, France
Valerie Gouet-Brunet, INRIA Rocquencourt, France
Olivier Buisson, INA, France
Nozha Boujemaa, INRIA Rocquencourt, France

pp. 232-235

ABSTRACT PDF BUY ARTICLE

Statistical Model for the Classification of the Wavelet Transforms of T-ray Pulses (Abstract)
X.X. Yin, University of Adelaide, SA 5005, Australia
B.W.-H. Ng, University of Adelaide, SA 5005, Australia
B. Ferguson, University of Adelaide, SA 5005, Australia
S.P. Mickan, University of Adelaide, SA 5005, Australia
D. Abbott, University of Adelaide, SA 5005, Australia

pp. 236-239

Efficient Cross-validation of the Complete Two Stages in KFD Classifier Formulation (Abstract)

Senjian An, Curtin University of Technology, WA 6102, Australia
Wanquan Liu, Curtin University of Technology, WA 6102, Australia
Svetha Venkatesh, Curtin University of Technology, WA 6102, Australia

pp. 240-244

Regularity and Complexity of Human Electroencephalogram Dynamics: Applications to Diagnosis of Alzheimers Disease (Abstract)

Zhenghui Hu, Hong Kong University of Science and Technology, Kowloon, Hong Kong
Pengcheng Shi, Southern Medical University, Guangzhou, China

pp. 245-248

A Combination of Generative and Discriminative Approaches to Object Detection (Abstract)

Junyeong Yang, Yonsei University, Seoul, Korea
Hyeran Byun, Yonsei University, Seoul, Korea

pp. 249-253

Class Separability in Spaces Reduced By Feature Selection (Abstract)

Erinija Pranckeviciene, Institute for Biodiagnostics, National Research Council Canada
TinKam Ho, Institute for Biodiagnostics, National Research Council Canada
Ray Somorjai, Institute for Biodiagnostics, National Research Council Canada

pp. 254-257

Traffic Prediction Using Ying-

Yang Fuzzy Cerebellar Model Articulation Controller (Abstract)
M.N Nguyen, Nanyang Technological University, Singapore
D. Shi, Nanyang Technological University, Singapore
C. Quek, Nanyang Technological University, Singapore
G. S. Ng, Nanyang Technological University, Singapore

pp. 258-261

P-Channels: Robust Multivariate M-Estimation of Large Datasets (Abstract)
Michael Felsberg, Linkoping University
Gosta Granlund, Linkoping University

pp. 262-267

Improving Text Classifier Performance based on AUC (Abstract)
Alex K. S. Wong, Hong Kong Polytechnic University
John W. T. Lee, Hong Kong Polytechnic University
Daniel S. Yeung, Hong Kong Polytechnic University

pp. 268-271

Incremental Vehicle 3-D Modeling from Video (Abstract)
N. Ghosh, University of California, Riverside, CA
B. Bhanu, University of California, Riverside, CA

pp. 272-275

Illumination Invariant Texture Retrieval (Abstract)
Michal Haindl, Academy of Sciences CR, 182 08 Prague, Czech Republic
Pavel Vacha, Academy of Sciences CR, 182 08 Prague, Czech Republic

pp. 276-279

A Coupon Classification Method Based on Adaptive

Image Vector Matching (Abstract)
Takeshi Nagasaki, Hitachi, Ltd., Central Research Laboratory, Japan
Katsumi Marukawa, Hitachi, Ltd., Central Research Laboratory, Japan
Tatsuhiko Kagehiro, Hitachi, Ltd., Central Research Laboratory, Japan
Hiroshi Sako, Hitachi, Ltd., Central Research Laboratory, Japan

pp. 280-283

ABSTRACT PDF BUY ARTICLE

Ethiopic Character Recognition Using Direction Field Tensor (Abstract)
Yaregal Assabie, Halmstad University, SE-301 18 Halmstad, Sweden
Josef Bigun, Halmstad University, SE-301 18 Halmstad, Sweden

pp. 284-287

ABSTRACT PDF BUY ARTICLE

Recognition of lung lobes and its application to the bronchial structure analysis (Abstract)
Takayuki Kitasaka, Nagoya University, Japan
Yuichi Nakada, Nagoya University, Japan
Kensaku Mori, Nagoya University, Japan
Yasuhito Suenaga, Nagoya University, Japan
Masaki Mori, Sapporo Kosei General Hospital, Japan
Hirotsugu Takabatake, Sapporo Minami-Sanjo Hospital, Japan
Hiroshi Natori, Sapporo Medical University, Japan

pp. 288-291

ABSTRACT PDF BUY ARTICLE

A Markovian Approach for Handwritten Document Segmentation (Abstract)
Stéphane Nicolas, Laboratoire LITIS - Université de Rouen, cedex, FRANCE
Thierry Paquet, Laboratoire LITIS - Université de Rouen, cedex, FRANCE
Laurent Heutte, Laboratoire LITIS - Université de Rouen, cedex, FRANCE

pp. 292-295

ABSTRACT PDF BUY ARTICLE

Graph Classification Using Genetic Algorithm and Graph

Probing Application to Symbol Recognition (Abstract)
Eugen Barbu, LITIS Labs - University of Rouen, FRANCE
Romain Raveaux, LITIS Labs - University of Rouen, FRANCE
Herve Locteau, LITIS Labs - University of Rouen, FRANCE
Sebastien Adam, LITIS Labs - University of Rouen, FRANCE
Pierre Heroux, LITIS Labs - University of Rouen, FRANCE
Eric Trupin, LITIS Labs - University of Rouen, FRANCE

pp. 296-299

ABSTRACT PDF BUY ARTICLE

Comparing rank-inducing scoring systems (Abstract)
Narayan L. Bhamidipati, Machine Intelligence Unit,Indian Statistical Institute,Kolkata
Sankar K. Pal, Machine Intelligence Unit,Indian Statistical Institute,Kolkata

pp. 300-303

ABSTRACT PDF BUY ARTICLE

LIGHT: Local Invariant Generalized Hough Transform (Abstract)
Jose A.R. Artolazabal, University of Surrey, UK
John Illingworth, University of Surrey, UK
Alberto S. Aguado, University of Surrey, UK

pp. 304-307

ABSTRACT PDF BUY ARTICLE

Comparison of Structural Variables with Spatio-temporal Variables Concerning the Identifiability of Okuri Class and Player in Japanese Traditional Dancing (Abstract)
Mitsu Yoshimura, Ritsumeikan University, Japan
Kozaburo Hachimura, Ritsumeikan University, Japan
Yuuka Marumo, Ritsumeikan University, Japan

pp. 308-311

ABSTRACT PDF BUY ARTICLE

Real Time Large Vocabulary Continuous Sign Language

Recognition Based on OP/Viterbi Algorithm (Abstract)
Guilin Yao, Harbin Institute of Technology, Harbin, China
Hongxun Yao, Harbin Institute of Technology, Harbin, China
Xin Liu, Harbin Institute of Technology, Harbin, China
Feng Jiang, Harbin Institute of Technology, Harbin, China

pp. 312-315

Efficient Relevance Feedback Using Semi-supervised Kernel-specified K-means Clustering (Abstract)
Bo QIU, Institute for Infocomm (I2R), Singapore
Chang Sheng XU, Institute for Infocomm (I2R), Singapore
Qi TIAN, Institute for Infocomm (I2R), Singapore

pp. 316-319

A Novel Pattern Classification Scheme: Classwise Non-Principal Component Analysis (CNPCA) (Abstract)
Guorong Xuan, Tongji University, Shanghai, China
Peiqi Chai, Tongji University, Shanghai, China
Xiuming Zhu, Tongji University, Shanghai, China
Qiuming Yao, Tongji University, Shanghai, China
Cong Huang, Tongji University, Shanghai, China
Yun Q. Shi, New Jersey Institute of Technology, USA
Dongdong Fu, New Jersey Institute of Technology, USA

pp. 320-323

Semi-Parametric Model-Based Clustering for DNA Microarray Data (Abstract)
Bohyung Han, Samsung Information Systems America Irvine, CA
Larry S. Davis, University of Maryland College Park, MD

pp. 324-327

Local Discriminant Analysis (Abstract)
Marco Loog, Image Group, IT University of Copenhagen Copenhagen, Denmark
Dick de Ridder, Delft University of Technology, Delft, The Netherlands

pp. 328-331

ABSTRACT PDF BUY ARTICLE

Predicting the benefit of sample size extension in multiclass k-NN classification (Abstract)
Christian Kier, University of Luebeck
Til Aach, RWTH Aachen University, Germany

pp. 332-335

ABSTRACT PDF BUY ARTICLE

Rotation-Invariant Neoperceptron (Abstract)
Beat Fasel, BIWI, ETH Zurich Zurich, Switzerland
Daniel Gatica-Perez, IDIAP Research Institute Martigny, Switzerland

pp. 336-339

ABSTRACT PDF BUY ARTICLE

A Template-Matching Approach for Protein Surface Clustering (Abstract)
L. Baldacci, DEIS, University of Bologna, Viale Risorgimento 2, 40136 Bologna, Italy
M. Golfarelli, DEIS, University of Bologna, Viale Risorgimento 2, 40136 Bologna, Italy
A. Lumini, DEIS, University of Bologna, Viale Risorgimento 2, 40136 Bologna, Italy
S. Rizzi, DEIS, University of Bologna, Viale Risorgimento 2, 40136 Bologna, Italy

pp. 340-343

ABSTRACT PDF BUY ARTICLE

Summarization of JBIG2 Compressed Indian Language Textual Images (Abstract)
Utpal Garain, Indian Statistical Institute, 203, B. T. Road, Kolkata 700108, India
Alok K. Datta, Indian Statistical Institute, 203, B. T. Road, Kolkata 700108, India
U. Bhattacharya, Indian Statistical Institute, 203, B. T. Road, Kolkata

700108, India
S. K. Parui, Indian Statistical Institute, 203, B. T. Road, Kolkata 700108, India

pp. 344-347

Pen-Coordinate Information Modeling by SCPR-based HMM for On-line Japanese Handwriting Recognition (Abstract)

Junko Tokuno, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan
Yiping Yang, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan
Gleidson Pegoretti da Silva, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan
Akihito Kitadai, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan
Masaki Nakagawa, Tokyo University of Agriculture and Technology, Koganei, Tokyo, Japan

pp. 348-351

Scalable Representative Instance Selection and Ranking (Abstract)

Xingquan Zhu, University of Vermont, VT
Xindong Wu, University of Vermont, VT

pp. 352-355

Learning Policies for Efficiently Identifying Objects of Many Classes (Abstract)

Ramana Isukapalli, Lucent Technologies, Bell Labs Innovations Whippany, NJ
Ahmed Elgammal, Rutgers University, NJ

pp. 356-361

Image Classification for Genetic Diagnosis using Fuzzy ARTMAP (Abstract)

Boaz Lerner, Ben-Gurion University, Beer-Sheva, Israel
Boaz Vigdor, Ben-Gurion University, Beer-Sheva, Israel

pp. 362-365
ABSTRACT PDF BUY ARTICLE

Fast Support Vector Machine Classification using linear SVMs (Abstract)
Karina Zapien Arreola, INSA de Rouen LITIS, France
Janis Fehr, University of Freiburg, Germany
Hans Burkhardt, University of Freiburg, Germany

pp. 366-369
ABSTRACT PDF BUY ARTICLE

A Novel Approach for Lexical Noise Analysis and Measurement in Intelligent Information Retrieval (Abstract)
T. Jaber, Queen's University, Belfast, UK
A. Amira, Brunel University, West London, Uxbridge, UK
P. Milligan, Queen's University, Belfast, UK

pp. 370-373
ABSTRACT PDF BUY ARTICLE

Bayesian Feedback in Data Clustering (Abstract)
A. K. Jain, Michigan State University, East Lansing, MI
Pavan K. Mallapragada, Michigan State University, East Lansing, MI
Martin Law, Michigan State University, East Lansing, MI

pp. 374-378
ABSTRACT PDF BUY ARTICLE

Learning Mixtures of Offline and Online features for Handwritten Stroke Recognition (Abstract)
Karteek Alahari, Centre for Visual Information Technology, IIIT Hyderabad, INDIA.
Satya Lahari Putrevu, Centre for Visual Information Technology, IIIT Hyderabad, INDIA.
C. V. Jawahar, Centre for Visual Information Technology, IIIT Hyderabad, INDIA.

pp. 379-382
ABSTRACT PDF BUY ARTICLE

Perceptual Audio Watermarking by Learning in Wavelet Domain (Abstract)
Bilge Gunsel, Istanbul Technical Univ., Turkey
Serap Kirbiz, Istanbul Technical Univ., Turkey

pp. 383-386

ABSTRACT PDF BUY ARTICLE

A new method to detect arcs and segments from curvature profiles (Abstract)
J.-P. Salmon, LORIA, Campus scientifique, BP 239, Vandoeuvre-les-Nancy Cedex France
I. Debled-Rennesson, LORIA, Campus scientifique, BP 239, Vandoeuvre-les-Nancy Cedex France
L. Wendling, LORIA, Campus scientifique, BP 239, Vandoeuvre-les-Nancy Cedex France

pp. 387-390

ABSTRACT PDF BUY ARTICLE

A Trainable Similarity Measure for Image Classification (Abstract)
Pavel Paclik, Delft University of Technology, The Netherlands
Jana Novovicova, Academy of Science of Czech Republic, Prague, Czech Republic
Robert P.W. Duin, Delft University of Technology, The Netherlands

pp. 391-394

ABSTRACT PDF BUY ARTICLE

Comparison of Methods for Hyperspherical Data Averaging and Parameter Estimation (Abstract)
Kai Rothaus, University of Munster, Germany
Xiaoyi Jiang, University of Munster, Germany
Martin Lambers, University of Munster, Germany

pp. 395-399

ABSTRACT PDF BUY ARTICLE

Data Mining Applied to Acoustic Bird Species Recognition (Abstract)
Erika Vilches, Tecnológico de Monterrey, Campus Estado de México

Ivan A. Escobar, Tecnológico de Monterrey, Campus Estado de México
Edgar E. Vallejo, Tecnológico de Monterrey, Campus Estado de México
Charles E. Taylor, University of California Los Angeles Los Angeles, CA

pp. 400-403

A Hybrid, Recursive Algorithm for Clustering Expressed Sequence Tags in Chlamydomonas reinhardtii (Abstract)

Monica Jain, Carnegie Inst. of Washington, 260 Panama Street, Stanford, CA
Hilary Holz, CSU, East Bay, 25800 Carlos Bee Blvd, Hayward, CA, USA
Jeff Shrager, Carnegie Inst. of Washington, 260 Panama Street, Stanford, CA
Olivier Vallon, CNRS/Université Paris 6, Institut de Biologie Physico-Chimique, Paris, France
Charles Hauser, Duke University, Durham NC
Arthur Grossman, Carnegie Inst. of Washington, 260 Panama Street, Stanford, CA

pp. 404-407

The Twin Towers Cluster in Torah Codes (Abstract)

Eliyahu Rips, Hebrew University, Givat Ram Jerusalem 91904, Israel
Art Levitt, Torah Code Research Group Jerusalem, Israel

pp. 408-411

Component Analysis of Torah Code Phrases (Abstract)

Art Levitt, Torah Code Research Group Jerusalem, Israel

pp. 412-416

Fast Feature Extraction Approach for Multi-Dimension Feature Space Problems (Abstract)

Alaa Sagheer, Kyushu University, Japan
Naoyuki Tsuruta, Fukuoka University, Japan

Rin-Ichiro Taniguchi, Kyushu University, Japan
Daisaku Arita, Kyushu University, Japan
Sakashi Maeda, Fukuoka University, Japan

pp. 417-420

Local Variance Driven Self-Organization for Unsupervised Clustering (Abstract)

Matthew Kyan, University of Sydney, Australia
Ling Guan, Ryerson University, Canada

pp. 421-424

Wed-O-II-2a: Pattern Classification I

Bootstrap Methods for Reject Rules of Fisher LDA (Abstract)

Jigang Xie, Beijing Jiaotong University, Beijing 100044, China
Zhengding Qiu, Beijing Jiaotong University, Beijing 100044, China
Jie Wu, Beijing Jiaotong University, Beijing 100044, China

pp. 425-428

A Complementary Ordering Method for Class Imbalanced Problem (Abstract)

Hsien-Ting Cheng, Academia Sinica, Taipei, Taiwan.
Chu-Song Chen, Academia Sinica, Taipei, Taiwan.

pp. 429-432

A Minimum Sphere Covering Approach to Pattern Classification (Abstract)

Jigang Wang, Brown University, Providence, RI
Predrag Neskovic, Brown University, Providence, RI
Leon N Cooper, Brown University, Providence, RI

pp. 433-436

Wed-O-II-2b: Pattern Matching Methods II

On Authorship Attribution via Markov Chains and Sequence Kernels (Abstract)
Conrad Sanderson, Australian National University, Canberra, ACT 0200, Australia
Simon Guenter, Australian National University, Canberra, ACT 0200, Australia

pp. 437-440

ABSTRACT PDF BUY ARTICLE

Shape Recognition using Curve Segment Hausdorff Distance (Abstract)
Xiaozhou Yu, Nanyang Technological University, SCE, Singapore
Maylor K.H. Leung, Nanyang Technological University, SCE, Singapore

pp. 441-444

ABSTRACT PDF BUY ARTICLE

Shape-based Discrimination and Classification of Cortical Surfaces (Abstract)
Peng Yu, MIT, Cambridge, MA
Xiao Han, CMS Inc., St.Louis, MO
Florent Segonne, MIT, AI lab, Cambridge, MA
Arthur K. Liu, Radiology, MGH, Charlestown, MA
Russell A. Poldrack, UCLA, Los Angeles, CA
Polina Golland, MIT, AI lab, Cambridge, MA
Bruce Fischl, MIT, Cambridge, MA

pp. 445-448

ABSTRACT PDF BUY ARTICLE

Structural Matching Via Optimal Basis Graphs (Abstract)
Fred W. DePiero, CalPoly State University, San Luis Obispo, CA
John K. Carlin, Agilent Technologies, Colorado Springs, CO

pp. 449-452

ABSTRACT PDF BUY ARTICLE

Selecting vantage objects for similarity indexing (Abstract)
Reinier H. van Leuken, Utrecht

University, The Netherlands
Remco C. Veltkamp, Utrecht University, The Netherlands
Rainer Typke, Utrecht University, The Netherlands

pp. 453-456

Wed-O-IV-2: Gait, Body Pose and Writer Recognition

Human Motion De-noising via Greedy Kernel Principal Component Analysis Filtering (Abstract)

Therdsak Tangkuampien, Monash University, Victoria, Australia.
David Suter, Monash University, Victoria, Australia.

pp. 457-460

Wed-P-II-2: Biometrics

Feature Extraction with Genetic Algorithms Based Nonlinear Principal Component Analysis for Face Recognition (Abstract)

Nan Liu, Nanyang Technological University, Singapore
Han Wang, Nanyang Technological University, Singapore

pp. 461-464

Face Recognition by Combining Kernel Associative Memory and Gabor Transforms (Abstract)

Bai-ling Zhang, Victoria University, Australia
Clement Leung, Victoria University, Australia
Yongsheng Gao, Griffith University, Australia

pp. 465-468

A Complete and Rapid Feature Extraction Method for Face Recognition (Abstract)

Yu-jie Zheng, Nanjing University of Science and Technology, China
Jing-yu Yang, Nanjing University of Science and Technology, China
Jian Yang, Hong Kong Polytechnic

University
Xiao-jun Wu, Jiangsu University of Science and Technology, China
Dong-jun Yu, Nanjing University of Science and Technology, Nanjing, China

pp. 469-472

Abnormal Walking Gait Analysis Using Silhouette-Masked Flow Histograms (Abstract)

Liang Wang, Monash University, Clayton, VIC, 3800, Australia

pp. 473-476

Enhancing Training Set for Face Detection (Abstract)

Ruiping Wang, Chinese Academy of Sciences, Beijing, 100080, China
Jie Chen, Harbin Institute of Technology, China
Shiguang Shan, Chinese Academy of Sciences, Beijing, 100080, China
Wen Gao, Graduate School of the Chinese Academy of Sciences, Beijing, 100039, China

pp. 477-480

Complete Two-Dimensional PCA for Face Recognition (Abstract)

Anbang Xu, Beijing Normal University, China
Xin Jin, Beijing Normal University, China
Yugang Jiang, Beijing Normal University, China
Ping Guo, Beijing Normal University, China

pp. 481-484

Transformation Invariance in Hand Shape Recognition (Abstract)

Thomas Coogan, Dublin City University, Ireland
Alistair Sutherland, Dublin City University, Ireland

pp. 485-488

Simultaneous Inference of View and Body Pose using Torus Manifolds (Abstract)
Chan-Su Lee, Rutgers University
Ahmed Elgammal, Rutgers University

pp. 489-494

ABSTRACT PDF BUY ARTICLE

A Modified Non-negative Matrix Factorization Algorithm for Face Recognition (Abstract)
Yun Xue, Hong Kong Baptist University
Chong Sze Tong, Hong Kong Baptist University
Wen-Sheng Chen, Shenzhen University, P.R.China
Weipeng Zhang, Hong Kong Baptist University

pp. 495-498

ABSTRACT PDF BUY ARTICLE

3D+2D Face Localization Using Boosting in Multi-Modal Feature Space (Abstract)
Feng Xue, Tsinghua University, Beijing 100084, P.R.China
Xiaoqing Ding, Tsinghua University, Beijing 100084, P.R.China

pp. 499-502

ABSTRACT PDF BUY ARTICLE

Palmprint Identification using Boosting Local Binary Pattern (Abstract)
Xianji Wang, University of Science and Technology of China, Hefei, China
Haifeng Gong, University of Science and Technology of China, Hefei, China
Hao Zhang, University of Science and Technology of China, Hefei, China
Bin Li, University of Science and Technology of China, Hefei, China
Zhenquan Zhuang, University of Science and Technology of China, Hefei, China

pp. 503-506

ABSTRACT PDF BUY ARTICLE

Sparse Bayesian Regression for Head Pose Estimation (Abstract)
Yong Ma, Omron Corporation, Kyoto, Japan

Yoshinori Konishi, Omron Corporation, Kyoto, Japan
Koichi Kinoshita, Omron Corporation, Kyoto, Japan
Shihong Lao, Omron Corporation, Kyoto, Japan
Masato Kawade, Omron Corporation, Kyoto, Japan

pp. 507-510

ABSTRACT PDF BUY ARTICLE

A Novel Eye Location Algorithm based on Radial Symmetry Transform (Abstract)

Li Bai, University of Nottingham, Nottingham, UK
Linlin Shen, University of Nottingham, Nottingham, UK
Yan Wang, University of Nottingham, Nottingham, UK

pp. 511-514

ABSTRACT PDF BUY ARTICLE

Regression Nearest Neighbor in Face Recognition (Abstract)

Shu Yang, Peking University, Beijing, P.R. China
Chao zhang, Peking University, Beijing, P.R. China

pp. 515-518

ABSTRACT PDF BUY ARTICLE

A Neural Network Approach for Hand Gesture Recognition in Virtual Reality Driving Training System of SPG (Abstract)

Deyou Xu, Artillery Academy at Nanjing, 211132,China

pp. 519-522

ABSTRACT PDF BUY ARTICLE

Bagging Based Efficient Kernel Fisher Discriminant Analysis for Face Recognition (Abstract)

Yi Li, Chinese Academy of Sciences, China
Baochang Zhang, Harbin Institute of Technology, Harbin, China
Shiguang Shan, Harbin Institute of Technology, Harbin, China
Xilin Chen, Chinese Academy of Sciences, China
Wen Gao, Chinese Academy of Sciences, China

pp. 523-526

ABSTRACT PDF BUY ARTICLE

Face Recognition with Relative Difference Space and SVM (Abstract)

Xiaoguang He, Chinese Academy of Sciences, China
Jie Tian, Chinese Academy of Sciences, China
Yuliang He, Chinese Academy of Sciences, China
Xin Yang, Chinese Academy of Sciences, China

pp. 527-531

ABSTRACT PDF BUY ARTICLE

Compound Stochastic Models For Fingerprint Individuality (Abstract)

Yongfang Zhu, Michigan State University, East Lansing, MI
Sarat C. Dass, Michigan State University, East Lansing, MI
Anil K. Jain, Michigan State University, East Lansing, MI

pp. 532-535

ABSTRACT PDF BUY ARTICLE

Facial Expression Recognition Based on Fusion of Multiple Gabor Features (Abstract)

WeiFeng Liu, University of Science and Technology of China, Hefei, Anhui, 230027, P.R.China
ZengFu Wang, University of Science and Technology of China, Hefei, Anhui, 230027, P.R.China

pp. 536-539

ABSTRACT PDF BUY ARTICLE

Facial Feature Selection Based on SVMs by Regularized Risk Minimization (Abstract)

Weihong Li, Key Lab of Optoelectronic Technology & Systems of Education Ministry of China
Weiguo Gong, Key Lab of Optoelectronic Technology & Systems of Education Ministry of China
Liping Yang, Key Lab of Optoelectronic Technology & Systems of Education Ministry of China
Weimin Chen, Key Lab of Optoelectronic Technology & Systems of Education Ministry of China
Xiaohua Gu, Key Lab of Optoelectronic Technology & Systems of Education Ministry of China

pp. 540-543
ABSTRACT PDF BUY ARTICLE

Occlusion Robust Face Recognition with Dynamic Similarity Features (Abstract)
Qingshan Liu, Chinese Academy of Sciences, P.O. Box 2728, Beijing, P. R. China
Wang Yan, Chinese Academy of Sciences, P.O. Box 2728, Beijing, P. R. China
Hanqing Lu, Chinese Academy of Sciences, P.O. Box 2728, Beijing, P. R. China
Songde Ma, Chinese Academy of Sciences, P.O. Box 2728, Beijing, P. R. China

pp. 544-547
ABSTRACT PDF BUY ARTICLE

Variational Shift Invariant Probabilistic PCA for Face Recognition (Abstract)
Jilin Tu, University of Illinois at Urbana-Champaign
Aleksandar Ivanovic, University of Illinois at Urbana-Champaign
Xun Xu, University of Illinois at Urbana-Champaign
Li Fei-Fei, University of Illinois at Urbana-Champaign
Thomas Huang, University of Illinois at Urbana-Champaign

pp. 548-551
ABSTRACT PDF BUY ARTICLE

The Application of a Convolution Neural Network on Face and License Plate Detection (Abstract)
Ying-Nong Chen, National Central University, Taiwan
Chin-Chuan Han, National Central University, Taiwan
Cheng-Tzu Wang, Fo-Guang University, Taiwan
Bor-Shenn Jeng, National Central University, Taiwan
Kuo-Chin Fan, National Central University, Taiwan

pp. 552-555
ABSTRACT PDF BUY ARTICLE

Human Activity Classification Based on Gait Energy Image and Coevolutionary Genetic Programming (Abstract)

Xiaotao Zou, University of California, Riverside, CA 92521, USA
Bir Bhanu, University of California, Riverside, CA 92521, USA

pp. 556-559

ABSTRACT PDF BUY ARTICLE

Early Recognition and Prediction of Gestures (Abstract)

Akihiro Mori, Kyushu University, Fukuoka, 812-8581, Japan
Seiichi Uchida, Kyushu University, Fukuoka, 812-8581, Japan
Ryo Kurazume, Kyushu University, Fukuoka, 812-8581, Japan
Rin-ichiro Taniguchi, Kyushu University, Fukuoka, 812-8581, Japan
Tsutomu Hasegawa, Kyushu University, Fukuoka, 812-8581, Japan
Hiroaki Sakoe, Kyushu University, Fukuoka, 812-8581, Japan

pp. 560-563

ABSTRACT PDF BUY ARTICLE

An Efficient Face Recognition System Using a New Optimized Localization Method (Abstract)

Hamidreza Rashidy Kanan, University of Technology (Tehran Polytechnic), Hafez Avenue, Tehran, Iran
Karim Faez, University of Technology (Tehran Polytechnic), Hafez Avenue, Tehran, Iran
Mehdi Ezoji, University of Technology (Tehran Polytechnic), Hafez Avenue, Tehran, Iran

pp. 564-567

ABSTRACT PDF BUY ARTICLE

Wed-O-II-3a: Pattern Classification II

A Ground Truth Correspondence Measure for Benchmarking (Abstract)

Johan Karlsson, Lund University
Anders Ericsson, Lund University

pp. 568-573

ABSTRACT PDF BUY ARTICLE

Gaussian Weighted Histogram Intersection for License Plate Classification (Abstract)

Wenjing Jia, University of Technology, Sydney
Huaifeng Zhang, University of

Technology, Sydney
Xiangjian He, University of Technology, Sydney
Qiang Wu, University of Technology, Sydney

pp. 574-577

ECOC-ONE: A Novel Coding and Decoding Strategy (Abstract)

Sergio Escalera, UAB Campus UAB, 08193 Bellaterra, Spain
Oriol Pujol, UAB Campus UAB, 08193 Bellaterra, Spain

pp. 578-581

Enhancing Edit Distance on Real Sequences Filters using Histogram Distance on Fixed Reference Ordering (Abstract)

Prima Chairunnanda, Nanyang Technological University Singapore
Vivekanand Gopalkrishnan, Nanyang Technological University Singapore
Lei Chen, Hong Kong University of Science and Technology, Hong Kong, China

pp. 582-585

Wed-O-II-3b: Multimodal Recognition

Performance Prediction for Multimodal Biometrics (Abstract)

Rong Wang, University of California, Riverside
Bir Bhanu, University of California, Riverside

pp. 586-589

A Riemannian Weighted Filter for Edge-sensitive Image Smoothing (Abstract)

Shiguang Shan, Institute of Computing Technology, CAS, Beijing, China
Wenchao Zhang, Institute of Computing Technology, CAS, Beijing, China
Yu Su, Harbin Institute of Technology, Harbin, China
Xilin Chen, Harbin Institute of Technology, Harbin, China

Wen Gao, Harbin Institute of Technology, Harbin, China

pp. 590-593

ABSTRACT PDF BUY ARTICLE

Track III: Signal, Speech and Image Processing

Wed-O-III-1: Medical Image Processing

A Riemannian Weighted Filter for Edge-sensitive Image Smoothing (Abstract)

Fan Zhang, University of York, York, YO10 5DD, UK
Edwin R. Hancock, University of York, York, YO10 5DD, UK

pp. 594-598

ABSTRACT PDF BUY ARTICLE

Physically Motivated Reconstruction of Fiberscopic Images (Abstract)

Matthias Elter, Fraunhofer Institute for Integrated Circuits, Erlangen, Germany
Stephan Rupp, Fraunhofer Institute for Integrated Circuits, Erlangen, Germany
Christian Winter, Fraunhofer Institute for Integrated Circuits, Erlangen, Germany

pp. 599-602

ABSTRACT PDF BUY ARTICLE

Image Denoising with k-nearest Neighbor and Support Vector Regression (Abstract)

Bram van Ginneken, University Medical Center Utrecht, the Netherlands
Adrienne Mendrik, University Medical Center Utrecht, the Netherlands

pp. 603-606

ABSTRACT PDF BUY ARTICLE

Subpixel Alignment of MRI Data Under Cartesian and Log-Polar Sampling (Abstract)

Murat Balci, University of Central Florida, Orlando, FL 32816-2362, USA
Mais Alnasser, University of Central Florida, Orlando, FL 32816-2362, USA
Hassan Foroosh, University of Central Florida, Orlando, FL 32816-2362, USA

pp. 607-610

ABSTRACT PDF BUY ARTICLE

A Framework for Automatic Segmentation of Lung Nodules from Low Dose Chest CT Scans (Abstract)

Ayman El-Baz, University of Louisville, Louisville, Kentucky, USA.
Aly Farag, University of Louisville, Louisville, Kentucky, USA.
Georgy Gimel'farb, University of Auckland, New Zealand.
Robert Falk, Jewish Hospital, Louisville, Kentucky, USA.
Mohamed A. El-Ghar, University of Mansoura, Mansoura, Egypt.
Tarek Eldiasty, University of Mansoura, Mansoura, Egypt

pp. 611-614

ABSTRACT PDF BUY ARTICLE

Wed-O-III-2: Super-resolution and Restoration

String-Like Occluding Region Extraction for Background Restoration (Abstract)

Toru Tamaki, Hiroshima University, Japan
Hiroshi Suzuki, Niigata University, Japan
Masanobu Yamamoto, Niigata University, Japan

pp. 615-618

ABSTRACT PDF BUY ARTICLE

A Conditional Random Field Model for Video Super-resolution (Abstract)

Dan Kong, University of California, Santa Cruz
Mei Han, NEC Labs America, Cupertino, CA
Wei Xu, NEC Labs America, Cupertino, CA
Hai Tao, NEC Labs America, Cupertino, CA
Yihong Gong, NEC Labs America, Cupertino, CA

pp. 619-622

ABSTRACT PDF BUY ARTICLE

Extending the Depth of Field in a Compound-Eye Imaging System with Super-Resolution Reconstruction (Abstract)

Wai-San Chan, University of Hong Kong

Edmund Y. Lam, University of Hong Kong
Michael K. Ng, Hong Kong Baptist University

pp. 623-626

ABSTRACT PDF BUY ARTICLE

A Regression Model in TensorPCA Subspace for Face Image Super-resolution Reconstruction (Abstract)

Junwen Wu, University of California, San Diego, CA
Mohan M. Trivedi, University of California, San Diego, CA

pp. 627-630

ABSTRACT PDF BUY ARTICLE

Image Renaissance Using Discrete Optimization (Abstract)

Cedric Allene, ENPC-CERTIS and ESIEE-A2SI, France
Nikos Paragios, ENPC-CERTIS and ESIEE-A2SI, France

pp. 631-634

ABSTRACT PDF BUY ARTICLE

Wed-P-III-2: Image Processing

A Method of Reducing Speckle Noise of SAR Images Based on Wavelets and Wedgelet HMT Models (Abstract)

Haiyan JIN, Xidian University, China
Licheng JIAO, Xidian University, China
Fang LIU, Xidian University, China

pp. 635-638

ABSTRACT PDF BUY ARTICLE

A Novel Blind Watermarking Algorithm in Contourlet Domain (Abstract)

Haifeng Li, Jilin University, R. P. of China
Jianting Wen, South China Normal University
Haifeng Gong, Chinese Academy of Sciences, China

pp. 639-642

ABSTRACT PDF BUY ARTICLE

Remote Sensing Image Fusion

on Gradient Field (Abstract)
Jianting Wen, South China Normal University
Yan Li, South China Normal University
Haifeng Gong, Chinese Academy of Sciences, China

pp. 643-646

ABSTRACT PDF BUY ARTICLE

Neighbor Pixel Mixture (Abstract)
Masayuki Tanaka, Tokyo Institute of Technology, Japan
Masatoshi Okutomi, Tokyo Institute of Technology, Japan

pp. 647-650

ABSTRACT PDF BUY ARTICLE

A Digital Watermarking Algorithm and Implementation Based on Improved SVD (Abstract)
Xinzhong Zhu, Zhejiang Normal University, Jinhua, P.R.China
Jianmin Zhao, Zhejiang Normal University, Jinhua, P.R.China
Huiying Xu, Zhejiang Normal University, Jinhua, P.R.China

pp. 651-656

ABSTRACT PDF BUY ARTICLE

Compressed Image Quality Evaluation using Power Law Models (Abstract)
Y. CARON, Université de Tours France
N. VINCENT, CRIP5- SIP Universite Rene Descartes Paris France

pp. 657-660

ABSTRACT PDF BUY ARTICLE

Determining Optimal Filters for Binarization of Degraded Characters in Color Using Genetic Algorithms (Abstract)
Hanako Kohmura, Hosei University, Japan
Toru Wakahara, Hosei University, Japan

pp. 661-664

ABSTRACT PDF BUY ARTICLE

Automatic Detection of Song Changes in Music Mixes Using Stochastic Models (Abstract)

Thomas Plotz, Bielefeld University, 33 594, Germany
Gernot A. Fink, Bielefeld University, 33 594, Germany
Peter Husemann, Bielefeld University, 33 594, Germany
Sven Kanies, Bielefeld University, 33 594, Germany
Kai Lienemann, Bielefeld University, 33 594, Germany
Tobias Marschall, Bielefeld University, 33 594, Germany
Marcel Martin, Bielefeld University, 33 594, Germany
Lars Schillingmann, Bielefeld University, 33 594, Germany
Matthias Steinrucken, Bielefeld University, 33 594, Germany
Henner Sudek, Bielefeld University, 33 594, Germany

pp. 665-668

A Robust Region-Based Multiscale Image Fusion Scheme for Mis-Registration Problem of Thermal and Visible Images (Abstract)

O. Charoentam, Chulalongkorn University, Bangkok,Thailand
V. Patanavijit, Chulalongkorn University, Bangkok,Thailand
S. Jitapunkul, Chulalongkorn University, Bangkok,Thailand

pp. 669-672

A robust block-based image watermarking scheme using fast Hadamard transform and singular value decomposition (Abstract)

Emad E. Abdallah, Concordia University, Montreal, QC, H3G 1T7, Canada
A. Ben Hamza, Concordia University, Montreal, QC, H3G 1T7, Canada
Prabir Bhattacharya, Concordia University, Montreal, QC, H3G 1T7, Canada

pp. 673-676

Accelerating the Computation of 3D Gradient Vector Flow Fields (Abstract)

Erik Vidholm, Uppsala University, Sweden
Per Sundqvist, Uppsala University, Sweden
Ingela Nystrom, Uppsala University, Sweden

pp. 677-680

ABSTRACT PDF BUY ARTICLE

Optimal Global Mosaic Generation from Retinal Images (Abstract)

Tae Eun Choe, IRIS,University of Southern California
Isaac Cohen, IRIS,University of Southern California
Munwai Lee, IRIS,University of Southern California
Gerard Medioni, IRIS,University of Southern California

pp. 681-684

ABSTRACT PDF BUY ARTICLE

Simple and Efficient Colorization in YCbCr Color Space (Abstract)

Hideki Noda, Kyushu Institute of Technology, Japan
Michiharu Niimi, Kyushu Institute of Technology, Japan
Jin Korekuni, Kyushu Institute of Technology, Japan

pp. 685-688

ABSTRACT PDF BUY ARTICLE

Planar Structure Based Registration of Multiple Range Images (Abstract)

Daiju Watanabe, Keio University, Japan
Hideo Saito, Keio University, Japan

pp. 689-692

ABSTRACT PDF BUY ARTICLE

3D Object Digitization: Topology Preserving Reconstruction (Abstract)

Peer Stelldinger, University of Hamburg, Germany
Longin Jan Latecki, Temple University Philadelphia PA

pp. 693-696

ABSTRACT PDF BUY ARTICLE

Multi-modality Image Registration Using Mutual Information Based on Gradient Vector Flow (Abstract)

Yujun Guo, Kent State University, OH,

USA
Cheng-Chang Lu, Kent State University, OH, USA

pp. 697-700

ABSTRACT PDF BUY ARTICLE

Vector Quantization Using Reflections of Triangular Subcodevectors (Abstract)

Vishnu Makkapati, Honeywell Technology Solutions Lab, Bangalore - 560 076, India
Pravas Mahapatra, Indian Institute of Science Bangalore - 560 012, India

pp. 701-704

ABSTRACT PDF BUY ARTICLE

Colony Delineation on Image Classification (Abstract)

Weixing Wang, Chongqing University of Posts & Telecommunications Post code: 610054, Chongqing, China

pp. 705-708

ABSTRACT PDF BUY ARTICLE

Removing Temporal Stationary Blur in Route Panoramas (Abstract)

Jiang Yu Zheng, Indiana University Purdue University Indianapolis
Min Shi, Indiana University Purdue University Indianapolis

pp. 709-713

ABSTRACT PDF BUY ARTICLE

Fingerprint Image Enhancement Based on Skin Profile Approximation (Abstract)

Zhixin Shi, State University of New York at Buffalo, Amherst, USA
Venu Govindaraju, State University of New York at Buffalo, Amherst, USA

pp. 714-717

ABSTRACT PDF BUY ARTICLE

Combining Adaptive PDE and Wavelet Shrinkage in Image Denoising with Edge Enhancing Property (Abstract)

Jiying Wu, Jiaotong University, Beijing, 100044, China
Qiuqi Ruan, Jiaotong University, Beijing, 100044, China

pp. 718-721

ABSTRACT PDF BUY ARTICLE

Scanner Artifact Removal in Simultaneous EEG-fMRI for Epileptic Seizure Prediction (Abstract)

Min Jing, Cardiff University, UK
Saeid Sanei, Cardiff University, UK

pp. 722-725

ABSTRACT PDF BUY ARTICLE

Adaptive Persistence Utilizing Motion Compensation for Ultrasound Images (Abstract)

Gang Wang, Sichuan University, China
Dong C. Liu, Sichuan University, China

pp. 726-729

ABSTRACT PDF BUY ARTICLE

Accurate 3-D Motion Tracking with an Application to Super-Resolution (Abstract)

Ying Kin Yu, Chinese University of Hong Kong, Hong Kong.
Siu Hang Or, Chinese University of Hong Kong, Hong Kong.
Kin Hong Wong, Chinese University of Hong Kong, Hong Kong.
Michael Ming Yuen Chang, Chinese University of Hong Kong, Hong Kong.

pp. 730-733

ABSTRACT PDF BUY ARTICLE

YUV Correction for Multi-View Video Compression (Abstract)

Yushan Chen, Huaqiao University, Quanzhou, China
Canhui Cai, Huaqiao University, Quanzhou, China
Jilin Liu, Zhejiang University, Hangzhou, China

pp. 734-737

ABSTRACT PDF BUY ARTICLE

Lie Methods in Color Signal Processing: Illumination Effects (Abstract)

Reiner Lenz, Linkoping University, Sweden
Martin Solli, Linkoping University, Sweden

pp. 738-741
ABSTRACT PDF BUY ARTICLE

Adaptive Binarization of Historical Document Images (Abstract)
Ergina Kavallieratou, University of the Aegean, 83200 Samos, Greece
Stamatatos Stathis, University of the Aegean, 83200 Samos, Greece

pp. 742-745
ABSTRACT PDF BUY ARTICLE

QIM watermarking combined to JPEG2000 part I and II. (Abstract)
Achraf Makhloufi, Syscom, ENIT, Tunis,Tunisia
Azza Ouled Zaid, Syscom, ENIT, Tunis,Tunisia
Ridha Boualleg, Syscom, ENIT, Tunis,Tunisia
Ammar Boualleg, Syscom, ENIT, Tunis,Tunisia

pp. 746-749
ABSTRACT PDF BUY ARTICLE

Human and Object Detection in Smoke-filled Space using Millimeter-wave radar based Measurement System (Abstract)
Masaki Sakai, Shibaura Institute of Technology, Japan
Yoshimitsu Aoki, Shibaura Institute of Technology, Japan

p. 750
ABSTRACT PDF BUY ARTICLE

Wavelet denoising of multicomponent images, using a Gaussian Scale Mixture model (Abstract)
Paul Scheunders, University of Antwerp, Universiteitsplein, Belgium
Steve De Backer, University of Antwerp, Universiteitsplein, Belgium

pp. 754-757
ABSTRACT PDF BUY ARTICLE

Multiple Regions of Interest Image Coding using Compensation Scheme and Alternating Shift (Abstract)

Li-bao Zhang, Beijing Normal University, China
Xian-chuan Yu, Beijing Normal University, China

pp. 758-761

ABSTRACT PDF BUY ARTICLE

Probabilistic Automatic Red Eye Detection and Correction (Abstract)

Jutta Willamowski, Xerox Research Centre Europe, 6, ch. de Maupertuis, 38240 Meylan, France
Gabriela Csurka, Xerox Research Centre Europe, 6, ch. de Maupertuis, 38240 Meylan, France

pp. 762-765

ABSTRACT PDF BUY ARTICLE

Iterative Image Restoration using a Non-Local Regularization Function and a Local Regularization Operator (Abstract)

Feng XUE, Universite de Bretagne SUD 56017 Vannes, France
Quan-sheng LIU, Universite de Bretagne SUD 56017 Vannes, France
Wei-hong FAN, National University of Defense Technology, ChangSha, China

pp. 766-769

ABSTRACT PDF BUY ARTICLE

Super-resolution in the presence of space-variant blur (Abstract)

K.V. Suresh, Image Processing and Computer Vision Laboratory, IIT Madras Chennai-36, India
A.N. Rajagopalan, Image Processing and Computer Vision Laboratory, IIT Madras Chennai-36, India

pp. 770-773

ABSTRACT PDF BUY ARTICLE

Correction of intensity of a color image using a range intensity image (Abstract)

Megumi Shinozaki, Chuo University, Japan
Kazunori Umeda, Chuo University, Japan
Guy Godin, National Research Council, Canada
Marc Rioux, National Research Council, Canada

pp. 774-777

ABSTRACT PDF BUY ARTICLE

Adaptive variational sinogram interpolation of sparsely sampled CT data (Abstract)

H. Kostler, Friedrich-Alexander University of Erlangen-Nuremberg 91058 Erlangen, Germany
M. Prummer, Friedrich-Alexander University of Erlangen-Nuremberg 91058 Erlangen, Germany
U. Rude, Friedrich-Alexander University of Erlangen-Nuremberg 91058 Erlangen, Germany
J. Hornegger, Friedrich-Alexander University of Erlangen-Nuremberg 91058 Erlangen, Germany

pp. 778-781

ABSTRACT PDF BUY ARTICLE

A New Efficient SVM-based Image Registration Method (Abstract)

DaiQiang Peng, Huazhong University of Science and Technology, Wuhan 430074 , China
DingXue Wu, Huanggang Normal College , China
JinWen Tian, Huazhong University of Science and Technology, Wuhan 430074 , China

pp. 782-785

ABSTRACT PDF BUY ARTICLE

Adaptive Region Growing Impulse Noise Estimator for Color Images (Abstract)

Mieng Quoc Phu, Monash University, Vic, Australia.
Peter Eric Tischer, Monash University, Vic, Australia.
Hon Ren Wu, RMIT University, Vic, Australia.

pp. 786-789

ABSTRACT PDF BUY ARTICLE

Stochastic Framework for Symmetric Affine Matching between Point Sets (Abstract)

Sai Kit Yeung, Hong Kong University of Science and Technology, Kowloon, Hong Kong
Pengcheng Shi, College of Biomedical Engineering, Southern Medical University, Guangzhou, China

pp. 790-793

ABSTRACT PDF BUY ARTICLE

Winner Update on Walsh-Hadamard Domain for Fast Motion Estimation (Abstract)
Shao-Wei Liu, National Tsing Hua University, Hsinchu, Taiwan
Shou-Der Wei, National Tsing Hua University, Hsinchu, Taiwan
Shang-Hong Lai, National Tsing Hua University, Hsinchu, Taiwan

pp. 794-797

Bijective Image Registration using Thin-Plate Splines. (Abstract)
Anders P Eriksson, Lund University, Sweden
Kalle Astrom, Lund University, Sweden

pp. 798-801

A Secret Image Sharing Method Using Integer-to-Integer Wavelet Transform (Abstract)
Chin-Pan Huang, Ming Chuan Univ., Taoyuan, Taiwan, ROC
Ching-Chung Li, Univ. of Pittsburgh, Pittsburgh, PA, USA

pp. 802-805

Lossless Compression of Textual Images: A Study on Indic Script Documents (Abstract)
Utpal Garain, Indian Statistical Institute, 203, B.T. Road, Kolkata 700108, India
M. P. Chakraborty, Indian Statistical Institute, 203, B.T. Road, Kolkata 700108, India
Bhabatosh Chanda, Indian Statistical Institute, 203, B.T. Road, Kolkata 700108, India

pp. 806-809

Object Removal By Cross Isophotes Exemplar-based Inpainting (Abstract)
Jiying Wu, Jiaotong University, Beijing, 100044, China
Qiuqi Ruan, Jiaotong University, Beijing, 100044, China

pp. 810-813

ABSTRACT PDF BUY ARTICLE

Knowledge Based Image Enhancement Using Neural Networks (Abstract)

Claudia Nieuwenhuis, Technical University of Ilmenau, 98693 Ilmenau, Germany
Michelle Yan, Siemens Corporate Research, Princeton, NJ

pp. 814-817

ABSTRACT PDF BUY ARTICLE

Simultaneous Image Denoising and Compression by Multiscale 2D Tensor Voting (Abstract)

Yu-Wing Tai, Hong Kong University of Science and Technology
Wai-Shun Tong, Hong Kong University of Science and Technology
Chi-Keung Tang, Hong Kong University of Science and Technology

pp. 818-821

ABSTRACT PDF BUY ARTICLE

Image Analysis of Renal DCE MRI for the Detection of Acute Renal Rejection (Abstract)

Ayman El-Baz, University of Louisville, Louisville, Kentucky, USA.
Aly Farag, University of Louisville, Louisville, Kentucky, USA.
Rachid Fahmi, University of Louisville, Louisville, Kentucky, USA.
Seniha Yuksela, University of Louisville, Louisville, Kentucky, USA.
Mohamed A. El-Ghar, University of Mansoura, Mansoura, Egypt.
Tarek Eldiasty, University of Mansoura, Mansoura, Egypt.

pp. 822-825

ABSTRACT PDF BUY ARTICLE

Human Head Tracking in Three Dimensional Voxel Space (Abstract)

Haruki Kawanaka, Aichi Prefectural University,Aichi, 480-1198, Japan
Hironobu Fujiyoshi, Chubu University,Aichi, 487-8501, Japan
Yuji Iwahori, Chubu University,Aichi, 487-8501, Japan

pp. 826-829

Wed-P-III-3: Signal Processing

The Classification Gradient (Abstract)
Vassili A. Kovalev, University of Surrey, UK
Maria Petrou, Imperial College, UK

pp. 830-833

Gender Recognition in Non Controlled Environments (Abstract)
Agata Lapedriza, Universitat Autonoma de Barcelona, Bellaterra, Spain
Manuel J. Marin-Jimenez, University of Granada, Spain
Jordi Vitria, Universitat Autonoma de Barcelona, Spain

pp. 834-837

Laplacian Based Non-Linear Diffusion Filtering (Abstract)
Haruhiko Nishiguchi, Chiba University, Japan
Atsushi Imiya, MTD IMIT, Chiba University, Japan
Tomoya Sakai, MTD IMIT, Chiba University, Japan

pp. 838-841

Microarray Missing Data Imputation based on a Set Theoretic Framework and Biological Constraints (Abstract)
Xiangchao Gan, City University of Hong Kong
Alan Wee-Chung Liew, Chinese University of Hong Kong, Shatin, Hong Kong
Hong Yan, University of Sydney, NSW 2006, Australia

pp. 842-845

A Method For IR Point Target Detection Based on Spatial-temporal Bilateral Filter (Abstract)

Jihong Pei, Shenzhen University, Shenzhen, China
Zongqing Lu, Xidian University, Xi'an ,710071, China
Weixin Xie, Shenzhen University, Shenzhen, China

pp. 846-849

Efficient Non-Maximum Suppression (Abstract)

Alexander Neubeck, ETH Zurich, Switzerland Computer Vision Lab
Luc Van Gool, ETH Zurich, Switzerland Computer Vision Lab

pp. 850-855

Multi-orientation analysis by decomposing the structure tensor and clustering (Abstract)

L.J. van Vliet, Delft University of Technology, The Netherlands
F.G.A. Faas, Delft University of Technology, The Netherlands

pp. 856-860

DigitalWatermarking in Contourlet Domain (Abstract)

M. Jayalakshmi, SPANN Lab, Electrical Engineering Department,Indian Institute of Technology, Bombay, India
S. N. Merchant, SPANN Lab, Electrical Engineering Department,Indian Institute of Technology, Bombay, India
Uday B. Desai, SPANN Lab, Electrical Engineering Department,Indian Institute of Technology, Bombay, India

pp. 861-864

OK-Quantization Theory - A Mathematical Theory of Quantization - (Abstract)

Hiroyasu Koshimizu, Chukyo University, Japan
Yuji Tanaka, Chukyo University, Japan
Takayuki Fujiwara, Chukyo University, Japan

pp. 865-868

A Theoretical and Experimental Consideration on Interference in Resolutions between Sampling Theorem and OK-Quantization Theory (Abstract)
Yuji Tanaka, Chukyo University, Japan
Takayuki Fujiwara, Chukyo University, Japan
Hiroyasu Koshimizu, Chukyo University, Japan
Taizo Iijima, Chukyo University, Japan

pp. 869-872

ABSTRACT PDF BUY ARTICLE

An Efficient Algorithm for Point Matching Using Hilbert Scanning Distance (Abstract)
Li Tian, Waseda University, Japan
Sei-ichiro Kamata, Waseda University, Japan

pp. 873-876

ABSTRACT PDF BUY ARTICLE

Multimodal Registration using the Discrete Wavelet Frame Transform (Abstract)
Shutao Li, Hunan University Changsha, China
Jinglin Peng, Hunan University Changsha, China
James T. Kwok, Hong Kong University of Science and Technology Clear Water Bay, Hong Kong
Jing Zhang, Hunan University Changsha, China

pp. 877-880

ABSTRACT PDF BUY ARTICLE

Automatic Lipreading with Limited Training Data (Abstract)
S.L. Wang, Shanghai Jiaotong University, Shanghai, CHINA
W.H. Lau, City University of Hong Kong, Kowloon, HONG KONG
S.H. Leung, Chinese University of Hong Kong, Shatin, HONG KONG

pp. 881-884

ABSTRACT PDF BUY ARTICLE

A new adaptive diffusion equation for image noise removal and feature

preservation (Abstract)
Shoushui Chen, Shanghai Jiao Tong University
Xin Yang, Shanghai Jiao Tong University

pp. 885-888

ABSTRACT PDF BUY ARTICLE

Uncertainties-driven Surface Morphing: The case of Photo-realistic Transitions between Facial Expressions (Abstract)
Maxime TARON, CERTIS, Ecole des Ponts et Chaussees,77455 Marne la Vallee, France
Charlotte Ghys, MAS, Ecole Centrale Paris 92295 Chatenay Malabry, France
Nikos PARAGIOS, MAS, Ecole Centrale Paris 92295 Chatenay Malabry, France

pp. 889-892

ABSTRACT PDF BUY ARTICLE

Medical Image Compression: Study of the Influence of Noise on the JPEG 2000 Compression Performance (Abstract)
Ahmed Nabil Belbachir, ARC, Seibersdorf Research GmbH, Vienna, Austria
Peter Michael Goebel, Karl-Landsteiner Institute for Biotelematics, Vienna, Austria

pp. 893-896

ABSTRACT PDF BUY ARTICLE

Superimposing 3D Virtual Objects using Markerless Tracking (Abstract)
Sang-Cheol Park, Korea University, Anam-dong, Seongbuk-ku, Seoul 136-713, Korea
Sang-Woong Lee, Korea University, Anam-dong, Seongbuk-ku, Seoul 136-713, Korea
Seong-Whan Lee, Korea University, Anam-dong, Seongbuk-ku, Seoul 136-713, Korea

pp. 897-900

ABSTRACT PDF BUY ARTICLE

A Method for Crack Detection on a Concrete Structure (Abstract)
Yusuke Fujita, Yamaguchi University, Japan
Yoshihiro Mitani, Ube National College of Technology, Tokiwadai, Ube, Japan

Yoshihiko Hamamoto, Yamaguchi University, Ube, Japan

pp. 901-904

ABSTRACT PDF BUY ARTICLE

Joint Optimization of Image Registration and Comparametric Exposure Compensation Based on the Lucas-Kanade Algorithm (Abstract)

Dong Sik Kim, Hankuk University of Foreign Studies, Korea
Su Yeon Lee, Hankuk University of Foreign Studies, Korea
Kiryung Lee, Mobile Multimedia Lab.LG Electronics Institute of Technology, Korea

pp. 905-908

ABSTRACT PDF BUY ARTICLE

A New Approach for Fractal Image Compression on a Virtual Hexagonal Structure (Abstract)

Huaqing Wang, University of Technology, Sydney, Australia
Xiangjian He, University of Technology, Sydney, Australia
Qiang Wu, University of Technology, Sydney, Australia
Tom Hintz, University of Technology, Sydney, Australia

pp. 909-912

ABSTRACT PDF BUY ARTICLE

Age simulation for face recognition (Abstract)

Junyan Wang, Tsinghua University, Beijing, China
Yan Shang, Tsinghua University, Beijing, China
Guangda Su, Tsinghua University, Beijing, China
Xinggang Lin, Tsinghua University, Beijing, China

pp. 913-916

ABSTRACT PDF BUY ARTICLE

Probabilistic Modeling of Blood Vessels for Segmenting MRA Images (Abstract)

Ayman El-Baz, University of Louisville, Louisville, Kentucky, USA.
Aly Farag, University of Louisville, Louisville, Kentucky, USA.
Georgy Gimel'farb, University of Auckland, New Zealand.

Mohamed A. El-Ghar, University of Mansoura, Mansoura, Egypt.
Tarek Eldiasty, University of Mansoura, Mansoura, Egypt.

pp. 917-920

Multiplierless Fast DCT Algorithms with Minimal Approximation Errors (Abstract)

Raymond K.W. Chan, Chinese University of Hong Kong, Shatin, N.T., Hong Kong
Moon-Chuen Lee, Chinese University of Hong Kong, Shatin, N.T., Hong Kong

pp. 921-925

Detecting irregularities in regular patterns (Abstract)

J. Vartiainen, Lappeenranta University of Technology, Finland
A. Sadovnikov, Lappeenranta University of Technology, Finland
L. Lensu, Lappeenranta University of Technology, Finland
J.-K. Kamarainen, Lappeenranta University of Technology, Finland
H. Kalviainen, Lappeenranta University of Technology, Finland

pp. 926-929

Toward Blind Robust Watermarking of Vector Maps (Abstract)

Yu-Chi Pu, Far East College, Tainan, Taiwan
Wei-Chang Du, I-Shou University, Kaohsiung, Taiwan
I-Chang Jou, National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan

pp. 930-933

Region of Interest Watermarking Based on Fractal Dimension (Abstract)

Rongrong Ni, Beijing Jiaotong University, Beijing 100044, China
Qiuqi Ruan, Beijing Jiaotong University, Beijing 100044, China

pp. 934-937

Normalization of Functional Magnetic Resonance Images by Classified Cerebrospinal Fluid Cluster (Abstract)
Zhenghui Hu, Hong Kong University of Science and Technology, Kowloon, Hong Kong
Pengcheng Shi, Southern Medical University, Guangzhou, China

pp. 938-941

Searching for Similarities in Nearly Periodic Signals With Application to ECG Data Compression (Abstract)
J. Henriques, University of Coimbra, Coimbra, Portugal
M. Brito, University of Coimbra, Coimbra, Portugal
P. Gil, University of Coimbra, Coimbra, Portugal
P. Carvalho, University of Coimbra, Coimbra, Portugal
M. Antunes, Centre of Cardio-Thoracic Surgery of the University Hospital of Coimbra, Coimbra, Portugal

pp. 942-945

Automatic Hip Bone Segmentation Using Non-Rigid Registration (Abstract)
Johanna Pettersson, Linkoping University, Sweden
Hans Knutsson, Linkoping University, Sweden
Magnus Borga, Linkoping University, Sweden

pp. 946-949

Triangular Mesh Generation of Octrees of Non-Convex 3D Objects (Abstract)
Dongjoe Shin, University of Warwick, Coventry, CV4 7AL, UK
Tardi Tjahjadi, University of Warwick, Coventry, CV4 7AL, UK

pp. 950-953

Motion Dependent Spatiotemporal Smoothing for

Noise Reduction in Very Dim Light Image Sequences (Abstract)
Henrik Malm, Lund University, Helgonavägen 3, S-223 62 Lund, Sweden
Eric Warrant, Lund University, Helgonavägen 3, S-223 62 Lund, Sweden

pp. 954-959

ABSTRACT PDF BUY ARTICLE

Multiple Camera Calibration with Bundled Optimization using Silhouette Geometry Constraints (Abstract)
Hirotake Yamazoe, ATR Intelligent Robotics and Communication Laboratories, Kyoto 619-0288, Japan
Akira Utsumi, ATR Intelligent Robotics and Communication Laboratories, Kyoto 619-0288, Japan
Shinji Abe, ATR Intelligent Robotics and Communication Laboratories, Kyoto 619-0288, Japan

pp. 960-963

ABSTRACT PDF BUY ARTICLE

Hippocampal Surface Analysis Using Spherical Harmonic Function Applied to Surface Conformal Mapping (Abstract)
Boris Gutman, University of California, Los Angeles, CA USA
Yalin Wang, University of California, Los Angeles, CA USA
Lok Ming Lui, University of California, Los Angeles, CA USA
Tony E Chan, University of California, Los Angeles, CA USA
Paul M. Thompson, UCLA Medical School, Los Angeles, CA USA

pp. 964-967

ABSTRACT PDF BUY ARTICLE

Track IV: Systems, Robotics and Applications with Associated Theme: Biometrics

Wed-O-IV-1: Biomedical Imaging II

Automatic Segmentation of Muscles of Mastication from Magnetic Resonance Images Using Prior Knowledge (Abstract)
H.P. Ng, NUS Graduate School for Integrative Sciences and Engineering, Singapore
S.H. Ong, National University of

Singapore
K.W.C. Foong, National University of Singapore
P.S. Goh, National University of Singapore
W.L. Nowinski, Biomedical Imaging Lab, Agency for Science Technology and Research, Singapore

pp. 968-971

ABSTRACT PDF BUY ARTICLE

Classification of Segmented Regions in Brightfield Microscope Images (Abstract)

Marko Tscherepanow, Bielefeld University, Germany
Frank Zollner, Bielefeld University, Germany
Franz Kummert, Bielefeld University, Germany

pp. 972-975

ABSTRACT PDF BUY ARTICLE

Segmentation of Medical Images with Regional Inhomogeneities (Abstract)

D.K. Iakovidis, University of Athens, Greece
M.A. Savelonas, University of Athens, Greece
S.A. Karkanis, Lamia Institute of Technology, Greece
D.E. Maroulis, University of Athens, Greece

pp. 976-979

ABSTRACT PDF BUY ARTICLE

Adaptive Control of Video Display for Diagnostic Assistance by Analysis of Capsule Endoscopic Images (Abstract)

Vu Hai, ISIR, Osaka University, 8-1 Mihogaoka, Osaka, 567-0047, Japan
Tomio Echigo, Osaka Electro-Communication University, 18-8 Hatsu-cho, Osaka, 572-8530, Japan
Ryusuke Sagawa, ISIR, Osaka University, 8-1 Mihogaoka, Osaka, 567-0047, Japan
Keiko Yagi, Kobe Pharmaceutical University, Japan
Masatsugu Shiba, Osaka City University Graduate Medical School, Japan
Kazuhide Higuchi, Osaka City University Graduate Medical School, Japan
Tetsuo Arakawa, Osaka City University Graduate Medical School, Japan
Yasushi Yagi, ISIR, Osaka University, 8-1 Mihogaoka, Osaka, 567-0047,

Japan

pp. 980-983

Bayesian MS Lesion Classification Modeling Regional and Local Spatial Information (Abstract)

Rola Harmouche, Centre for Intelligent Machines
Louis Collins, Montreal Neurological Institute
Douglas Arnold, Montreal Neurological Institute
Simon Francis, Montreal Neurological Institute
Tal Arbel, Centre for Intelligent Machines

pp. 984-987

Extraction of trabecular structures of mandible excluding tooth roots on dental panoramic radiographs using mathematical morphology (Abstract)

Akira Asano, Hiroshima University, Japan
Takahiro Tambe, Hiroshima University, Japan
Akira Taguchi, Hiroshima University, Japan
Akira Taguchi, Hiroshima University, Japan
Chie Muraki Asano, Hiroshima University, Japan
Takashi Nakamoto, Hiroshima University, Japan
Keiji Tanimoto, Hiroshima University, Japan
Takao Hinamoto, Hiroshima University, Japan
Mitsuji Muneyasu, Kansai University, Japan

pp. 988-991

Wed-O-IV-2: Gait, Body Pose and Writer Recognition

Off-lineWriter Identification Using Gaussian Mixture Models (Abstract)

Andreas Schlapbach, University of Bern, Switzerland
Horst Bunke, University of Bern, Switzerland

pp. 992-995

ABSTRACT PDF BUY ARTICLE

Human Identification by Using the Motion and Static Characteristic of Gait (Abstract)
Toby H.W. Lam, Hong Kong Polytechnic University
Raymond S.T. Lee, Hong Kong Polytechnic University

pp. 996-999

ABSTRACT PDF BUY ARTICLE

Efficient Night Gait Recognition Based on Template Matching (Abstract)
Daoliang Tan, Chinese Academy of Sciences, Beijing, China
Kaiqi Huang, Chinese Academy of Sciences, Beijing, China
Shiqi Yu, Chinese Academy of Sciences, Beijing, China
Tieniu Tan, Chinese Academy of Sciences, Beijing, China

pp. 1000-1003

ABSTRACT PDF BUY ARTICLE

Reconstructing 3D Human Body Pose from Stereo Image Sequences Using Hierarchical Human Body Model Learning (Abstract)
Hee-Deok Yang, Korea University
Seong-Whan Lee, Korea University

pp. 1004-1007

ABSTRACT PDF BUY ARTICLE

Wed-O-II-3b: Multimodal Recognition

Face Recognition Using Angular LDA and SVM Ensembles (Abstract)
R.S. Smith, University of Surrey, Guildford, Surrey, GU2 7XH, UK
J. Kittler, University of Surrey, Guildford, Surrey, GU2 7XH, UK
M. Hamouz, University of Surrey, Guildford, Surrey, GU2 7XH, UK
J. Illingworth, University of Surrey, Guildford, Surrey, GU2 7XH, UK

pp. 1008-1012

ABSTRACT PDF BUY ARTICLE

A Multimodal and Multistage

Face Recognition Method for Simulated Portrait (Abstract)
Guangda Su, Tsinghua University Beijing 100084, P.R.China
Yan Shang, Tsinghua University Beijing 100084, P.R.China
Cheng Du, Tsinghua University Beijing 100084, P.R.China
Junyan Wang, Tsinghua University Beijing 100084, P.R.China

pp. 1013-1017

ABSTRACT PDF BUY ARTICLE

Comparative Analysis of Decision-level Fusion Algorithms for 3D Face Recognition (Abstract)
Berk Gokberk, Bocgazici University, Turkey
Lale Akarun, Bocgazici University, Turkey

pp. 1018-1021

ABSTRACT PDF BUY ARTICLE

Wed-O-IV-3: Automation and Robotics

Hand-Eye Calibration Based on Screw Motions (Abstract)
Zijian Zhao, Shanghai Jiao Tong University, Shanghai, China
Yuncai Liu, Shanghai Jiao Tong University, Shanghai, China

pp. 1022-1026

ABSTRACT PDF BUY ARTICLE

Monocular Vision Based SLAM for Mobile Robots (Abstract)
E. Mouragnon, Universite Blaise Pascal/CNRS, 63177 Aubiere Cedex, France
M. Lhuillier, Universite Blaise Pascal/CNRS, 63177 Aubiere Cedex, France
M. Dhome, Universite Blaise Pascal/CNRS, 63177 Aubiere Cedex, France
F. Dekeyser, Universite Blaise Pascal/CNRS, 63177 Aubiere Cedex, France
P. Sayd, Universite Blaise Pascal/CNRS, 63177 Aubiere Cedex, France

pp. 1027-1031

ABSTRACT PDF BUY ARTICLE

Online Aggregate Particle Size Measurement on A

Conveyor Belt (Abstract)
Weixing Wang, Chongqing University of Posts and Telecommunications Post code: 610054, Chongqing, China

pp. 1032-1035

ABSTRACT PDF BUY ARTICLE

A Texture Based Matching Approach for Automated Assembly of Puzzles (Abstract)
Mahmut Samil Sagiroglu, Sabanci University
Aytul Ercil, Sabanci University

pp. 1036-1041

ABSTRACT PDF BUY ARTICLE

A Fast Detector of Line Images Acquired by an Uncalibrated Paracatadioptric Camera (Abstract)
Bertrand VANDEPORTAELE, IRIT and LEN7, ENSEEIHT, 2 rue Camichel, 31071 TOULOUSE, FRANCE
Michel CATTOEN, IRIT and LEN7, ENSEEIHT, 2 rue Camichel, 31071 TOULOUSE, FRANCE
Philippe MARTHON, IRIT and LEN7, ENSEEIHT, 2 rue Camichel, 31071 TOULOUSE, FRANCE

pp. 1042-1045

ABSTRACT PDF BUY ARTICLE

Wed-P-IV-3: Sensors, Systems & Algorithms, Mobile Robots, Surveillance and Biometrics

Real-Time Spherical Stereo (Abstract)
Shigang Li, Iwate University Japan

pp. 1046-1049

ABSTRACT PDF BUY ARTICLE

A Pattern Recognition Scheme for Distributed Denial of Service (DDoS) Attacks in Wireless Sensor Networks (Abstract)
Z. A. Baig, Monash University, Australia
M. Baqer, Monash University, Australia
A. I. Khan, Monash University, Australia

pp. 1050-1054

ABSTRACT PDF BUY ARTICLE

A New Set of Topology Preserving Removal Operations in the 3D Space (Abstract)
Carlo Arcelli, Instituto di Cibernetica, CNR Via Campi Flegrei 34, 80078 Pozzuoli, Naples, Italy
Gabriella Sanniti di Baja, Instituto di Cibernetica, CNR Via Campi Flegrei 34, 80078 Pozzuoli, Naples, Italy
Luca Serino, Instituto di Cibernetica, CNR Via Campi Flegrei 34, 80078 Pozzuoli, Naples, Italy

pp. 1055-1058

ABSTRACT PDF BUY ARTICLE

Motion Features from Lip Movement for Person Authentication (Abstract)
Maycel Isaac Faraj, Halmstad University
Josef Bigun, Halmstad University

pp. 1059-1062

ABSTRACT PDF BUY ARTICLE

Real-time Localization in Outdoor Environments using Stereo Vision and Inexpensive GPS (Abstract)
Motilal Agrawal, SRI International 333 Ravenswood Ave Menlo Park, CA
Kurt Konolige, SRI International 333 Ravenswood Ave Menlo Park, CA

pp. 1063-1068

ABSTRACT PDF BUY ARTICLE

A Split & Merge Approach to Metric-Topological Map-Building (Abstract)
Jochen Schmidt, Auckland University of Technology, Auckland, New Zealand
Chee K. Wong, Auckland University of Technology, Auckland, New Zealand
Wai K. Yeap, Auckland University of Technology, Auckland, New Zealand

pp. 1069-1072

ABSTRACT PDF BUY ARTICLE

Kalman Filtering for Robust Identification of Face Images with Varying Expressions and Lighting Conditions (Abstract)
Horst Eidenberger, Vienna University of Technology, Vienna, Austria

pp. 1073-1076

ABSTRACT PDF BUY ARTICLE

Using Extended EM to Segment Planar Structures in 3D (Abstract)

Rolf Lakaemper, Temple University, Philadelphia,PA,USA
Longin Jan Latecki, Temple University, Philadelphia,PA,USA

pp. 1077-1082

ABSTRACT PDF BUY ARTICLE

Physics-based Fusion of Multispectral Data for Improved Face Recognition (Abstract)

Hong Chang, University of Tennessee, Knoxville
Andreas Koschan, University of Tennessee, Knoxville
Besma Abidi, University of Tennessee, Knoxville
Mongi Abidi, University of Tennessee, Knoxville

pp. 1083-1086

ABSTRACT PDF BUY ARTICLE

Learning a Sparse Representation from Multiple Still Images for On-Line Face Recognition in an Unconstrained Environment (Abstract)

Johan W.H. Tangelder, Centre for Mathematics and Computer Science (CWI), Amsterdam, The Netherlands
Ben A.M. Schouten, Centre for Mathematics and Computer Science (CWI), Amsterdam, The Netherlands

pp. 1087-1090

ABSTRACT PDF BUY ARTICLE

A Moving Object Tracked by A Mobile Robot with Real-Time Obstacles Avoidance Capacity (Abstract)

Chung-Hao Chen, University of Tennessee, Knoxville, TN, 37996, USA
Chang Cheng, University of Tennessee, Knoxville, TN, 37996, USA
David Page, University of Tennessee, Knoxville, TN, 37996, USA
Andreas Koschan, University of Tennessee, Knoxville, TN, 37996, USA
Mongi Abidi, University of Tennessee, Knoxville, TN, 37996, USA

pp. 1091-1094

ABSTRACT PDF BUY ARTICLE

Scheduling of Image Processing Using Anytime Algorithm for Real-time System (Abstract)

Wyne Wyne Kywe, Aichi Prefectural University, Japan
Daisuke Fujiwara, Aichi Prefectural University, Japan
Kazuhito Murakami, Aichi Prefectural University, Japan

pp. 1095-1098

ABSTRACT PDF BUY ARTICLE

An Experimental Study on Automatic Face Gender Classification (Abstract)

Zhiguang YANG, Tsinghua University, Beijing 100084, China
Ming LI, Tsinghua University, Beijing 100084, China
Haizhou AI, Tsinghua University, Beijing 100084, China

pp. 1099-1102

ABSTRACT PDF BUY ARTICLE

Tensor Voting Accelerated by Graphics Processing Units (GPU) (Abstract)

Changki Min, University of Southern California
Gerard Medioni, University of Southern California

pp. 1103-1106

ABSTRACT PDF BUY ARTICLE

Blind Image Steganalysis Based on Statistical Analysis of Empirical Matrix (Abstract)

Xiaochuan Chen, Chinese Academy of Sciences, P.O.Box 2728, Beijing
Yunhong Wang, Beihang University, China
Tieniu Tan, Chinese Academy of Sciences, P.O.Box 2728, Beijing
Lei Guo, Chinese Academy of Sciences, P.O.Box 2728, Beijing

pp. 1107-1110

ABSTRACT PDF BUY ARTICLE

GMM-based SVM for face recognition (Abstract)

Herve BREDIN, CNRS-LTCI, GET-ENST, Paris , France
Najim DEHAK, CNRS-LTCI, GET-ENST, Paris , France
Gerard CHOLLET, CNRS-LTCI, GET-ENST, Paris , France

pp. 1111-1114

ABSTRACT PDF BUY ARTICLE

Omnidirectional Vision Tracking with Particle Filter (Abstract)

Jaime Ortegon-Aguilar, CINVESTAV Unidad Guadalajara, Jalisco, Mexico.
Eduardo Bayro-Corrochano, CINVESTAV Unidad Guadalajara, Jalisco, Mexico.

pp. 1115-1118

ABSTRACT PDF BUY ARTICLE

Face Recognition by Expression-Driven Sketch Graph Matching (Abstract)

Zijian Xu, University of California at Los Angeles Los Angeles, CA
Jiebo Luo, Kodak Research Laboratories Eastman Kodak Company Rochester, NY

pp. 1119-1122

ABSTRACT PDF BUY ARTICLE

Multi-view-based Cooperative Tracking of Multiple Human Objects in Cluttered Scenes (Abstract)

Kuo-Chin Lien, National Tsing-Hua University Hsin-Chu, Taiwan
Chung-Lin Huang, National Tsing-Hua University Hsin-Chu, Taiwan

pp. 1123-1126

ABSTRACT PDF BUY ARTICLE

Tracking a Variable Number of Human Groups in Video Using Probability Hypothesis Density (Abstract)

Ya-Dong Wang, National Univ. of Singapore, Singapore
Jian-Kang Wu, Institute for Infocomm Research, 21 Heng Mui Keng Terrace, Singapore
Ashraf A. Kassim, National Univ. of Singapore, Singapore
Wei-Min Huang, Institute for Infocomm Research, 21 Heng Mui Keng Terrace, Singapore

pp. 1127-1130

A Similarity Measure Based on Hausdorff Distance for Human Face Recognition (Abstract)
Yuankui Hu, University of Science and Technology of China, Hefei,Anhui,China
Zengfu Wang, University of Science and Technology of China, Hefei,Anhui,China

pp. 1131-1134

Comparison of Similarity Measures for Trajectory Clustering in Outdoor Surveillance Scenes (Abstract)
Zhang Zhang, Chinese Academy of Sciences, Beijing, China
Kaiqi Huang, Chinese Academy of Sciences, Beijing, China
Tieniu Tan, Chinese Academy of Sciences, Beijing, China

pp. 1135-1138

Face Recognition under Varying Lighting Based on the Probabilistic Model of Gabor Phase (Abstract)
Laiyun Qing, Institute of Computing Technology, CAS, No.6 Kexueyuan South Road, Beijing, 100080, China
Shiguang Shan, Graduate School, CAS, No.19, Yuquan Road,Beijing, 100039, China
Xilin Chen, Graduate School, CAS, No.19, Yuquan Road,Beijing, 100039, China
Wen Gao, Graduate School, CAS, No.19, Yuquan Road,Beijing, 100039, China

pp. 1139-1142

Finding Symmetry Plane of 3D Face Shape (Abstract)
Gang Pan, Zhejiang University, Hangzhou, 310027, China
Yueming Wang, Zhejiang University, Hangzhou, 310027, China
Yipeng Qi, Zhejiang University, Hangzhou, 310027, China
Zhaohui Wu, Zhejiang University, Hangzhou, 310027, China

pp. 1143-1146

A Low-dimensional Illumination Space Representation of Human Faces for Arbitrary Lighting Conditions (Abstract)
Yuankui Hu, University of Science and Technology of China, Hefei,Anhui,China
Zengfu Wang, University of Science and Technology of China, Hefei,Anhui,China

pp. 1147-1150

ABSTRACT PDF BUY ARTICLE

Automatic Texture Synthesis for Face Recognition from Single Views (Abstract)
Xiaozheng Zhang, Griffith University, Australia
Yongsheng Gao, Griffith University, Australia
Maylor K.H. Leung, Nanyang Technological University, Singapore

pp. 1151-1154

ABSTRACT PDF BUY ARTICLE

A Real-life Test of Face Recognition System for Dialogue Interface Robot in Ubiquitous Environments (Abstract)
Fumihiko SAKAUE, Okayama University, Japan
Makoto KOBAYASHI, Okayama University, Japan
Tsuyoshi MIGITA, Okayama University, Japan
Takeshi SHAKUNAGA, Okayama University, Japan

pp. 1155-1160

ABSTRACT PDF BUY ARTICLE

Unusual Event Detection via Multi-camera Video Mining (Abstract)
Hanning Zhou, Amazon.com, Inc., Seattle, WA
Don Kimber, Fuji-Xerox Palo Alto Laboratory Inc., Palo Alto, CA

pp. 1161-1166

ABSTRACT PDF BUY ARTICLE

Robust vehicle detection based on shadow

classification (Abstract)
Deaho Lee, Kyung Hee University, Korea
Youngtae Park, Kyung Hee University, Korea

pp. 1167-1170

ABSTRACT PDF BUY ARTICLE

Real-Time Detection of Anomalous Objects in Dynamic Scene (Abstract)
Satoshi KAWABATA, Osaka University, Japan
Shinsaku HIURA, Osaka University, Japan
Kosuke SATO, Osaka University, Japan

pp. 1171-1174

ABSTRACT PDF BUY ARTICLE

A Comparison of Pixel, Edge andWavelet Features for Face Detection using a Semi-Naive Bayesian Classifier (Abstract)
J. Ross Beveridge, Colorado State University Fort Collins, CO, USA
Jilmil Saraf, Colorado State University Fort Collins, CO, USA
Ben Randall, Colorado State University Fort Collins, CO, USA

pp. 1175-1178

ABSTRACT PDF BUY ARTICLE

Face Reconstruction with Low Resolution Facial Images by Feature Vector Projection in Kernel Space (Abstract)
Sang-Woong Lee, Korea University
Jooyoung Park, Korea University
Seong-Whan Lee, Korea University

pp. 1179-1182

ABSTRACT PDF BUY ARTICLE

3D Face Recognition using Normal Sphere and General Fourier Descriptor (Abstract)
Andrea F. Abate, University of Salerno, Italy
Michele Nappi, University of Salerno, Italy
Daniel Riccio, University of Salerno, Italy
Gabriele Sabatino, University of Salerno, Italy

pp. 1183-1186

A Viewpoint Invariant Approach for Crowd Counting (Abstract)
Dan Kong, University of California, Santa Cruz
Doug Gray, University of California, Santa Cruz
Hai Tao, University of California, Santa Cruz

pp. 1187-1190

Face Alignment Using Segmentation and a Combined AAM in a PTZ Camera (Abstract)
Kwontaeg Choi, Yonsei University, Seoul, South Korea
Jung-Ho Ahn, Yonsei University, Seoul, South Korea
Hyeran Byun, Yonsei University, Seoul, South Korea

pp. 1191-1194

New Experiments on ICP-Based 3D Face Recognition and Authentication (Abstract)
Boulbaba Ben Amor, Ecole Centrale de Lyon LIRIS Laboratory, CNRS, France
Mohsen Ardabilian, Ecole Centrale de Lyon LIRIS Laboratory, CNRS, France
Liming Chen, Ecole Centrale de Lyon LIRIS Laboratory, CNRS, France

pp. 1195-1199

Improving evidential quality of surveillance imagery through active face tracking (Abstract)
Andrew D. Bagdanov, Universita degli Studi di Firenze, Firenze, Italy
Alberto del Bimbo, Universita degli Studi di Firenze, Firenze, Italy
Walter Nunziati, Universita degli Studi di Firenze, Firenze, Italy

pp. 1200-1203

ViSE: Visual Search Engine Using Multiple Networked

Cameras (Abstract)
U. Park, Michigan State Univ., USA
A. K. Jain, Michigan State Univ., USA
I. Kitahara, Univ. of Tsukuba, Japan
K. Kogure, ATR, Japan
N. Hagita, ATR, Japan

pp. 1204-1207

ABSTRACT PDF BUY ARTICLE

Late Posters

Fusion Algorithm for Locally Arranged Linear Models (Abstract)
Florian Hoppe, Christian-Albrechts-University of Kiel, Germany.
Gerald Sommer, Christian-Albrechts-University of Kiel, Germany.

pp. 1208-1211

ABSTRACT PDF BUY ARTICLE

Combining global and local classifiers with Bayesian network (Abstract)
Leonardo Nogueira Matos, Federal University of Sergipe, Brazil
Joao Marques de Carvalho, Federal University of Campina Grande, Brazil

pp. 1212-1215

ABSTRACT PDF BUY ARTICLE

Perceptual Knowledge Extraction Using Bayesian Networks of Salient Image Objects (Abstract)
Roman M. Palenichka, University of Quebec in Outaouais, Gatineau, Canada
Marek B. Zaremba, University of Quebec in Outaouais, Gatineau, Canada

pp. 1216-1219

ABSTRACT PDF BUY ARTICLE

Classification Using the Local Probabilistic Centers of k-Nearest Neighbors (Abstract)
Bo Yu Li, Fudan University, Shanghai, 200433, P.R. China
Yun Wen Chen, Fudan University, Shanghai, 200433, P.R. China

pp. 1220-1223

ABSTRACT PDF BUY ARTICLE

Graph Matching using Commute Time Spanning Trees (Abstract)
Huaijun Qiu, University of York Heslington, York, YO10 5DD, UK
Edwin R. Hancock, University of York Heslington, York, YO10 5DD, UK

pp. 1224-1227

ABSTRACT PDF BUY ARTICLE

Graph-based transformation manifolds for invariant pattern recognition with kernel methods (Abstract)
Alexei Pozdnoukhov, Swiss Federal Institute of Technology Martigny, CH-1920, Switzerland
Samy Bengio, Swiss Federal Institute of Technology Martigny, CH-1920, Switzerland

pp. 1228-1231

ABSTRACT PDF BUY ARTICLE

Feature Selection based on the Bhattacharyya Distance (Abstract)
Guorong Xuan, Tongji University, Shanghai, China
Xiuming Zhu, Tongji University, Shanghai, China
Peiqi Chai, Tongji University, Shanghai, China
Zhenping Zhang, Tongji University, Shanghai, China
Yun Q. Shi, New Jersey Institute of Technology Newark, NJ
Dongdong Fu, New Jersey Institute of Technology Newark, NJ

pp. 1232-1235

ABSTRACT PDF BUY ARTICLE

Learning an Optimal Naive Bayes Classifier (Abstract)
Miriam Martinez-Arroyo, Instituto Tecnologico de Acapulco, Acapulco, Guerrero, Mexico
L. Enrique Sucar, INAOE Tonantzintla, Puebla, Mexico

pp. 1236-1239

ABSTRACT PDF BUY ARTICLE

Benefits of Separable, Multilinear Discriminant Classification (Abstract)
Christian Bauckhage, Deutsche Telekom Laboratories 10587 Berlin, Germany
Thomas Kaster, Bielefeld University,

Germany

pp. 1240-1243

ABSTRACT PDF BUY ARTICLE

A Global Geometric Approach for Image Clustering (Abstract)
Sulan Zhang, Institute of Computing Technology, Chinese Academy of Sciences
Chunqi Shi, Institute of Computing Technology, Chinese Academy of Sciences
Zhiyong Zhang, Graduate School of the Chinese Academy of Sciences
Zhongzhi Shi, Institute of Computing Technology, Chinese Academy of Sciences

pp. 1244-1247

ABSTRACT PDF BUY ARTICLE

Patterns of Co-Linear Equidistant Letter Sequences and Verses (Abstract)
Nachum Bombach, Economist Certified Public Accountant Ramat Gan, Israel
Harold Gans, U.S. Department of Defense Fort George G. Meade, Maryland, U.S.A.

pp. 1248-1250

ABSTRACT PDF BUY ARTICLE

Author Index

Author Index (PDF)
p. 1251

ABSTRACT PDF

Usage of this product signifies your acceptance of the Terms of Use.

This site and all contents (unless otherwise noted) are Copyright © 2006, IEEE, Inc. All rights reserved.