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THE 2012 INTERNATIONAL CONFERENCE ON
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RECOGNITION**

IPCV 2012

Volume I

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Foreword

It gives us great pleasure to introduce this collection of papers to be presented at the 2012 International Conference on Image Processing, Computer Vision, & Pattern Recognition (ICCV'12), July 16 through 19, 2012, at Monte Carlo Resort, Las Vegas, USA.

The Academic Co-Sponsors, Corporate Co-Sponsors, Co-Sponsors At-Large and Organizers of this year's conference include (separated by semicolons):

Bioinformatics & Computational Biology Program, George Mason University, Virginia, USA; Biomedical Cybernetics Laboratory, HST of Harvard University and MIT, USA; Minnesota Supercomputing Institute, University of Minnesota, USA; Center for Cyber Defense, NCAT, USA; Argonne's Leadership Computing Facility of Argonne National Laboratory, Illinois, USA; The Center for Advanced Studies in Identity Sciences (CASIS: NC A&T, Carnegie Mellon, Clemson, UNC Wilmington), USA; Knowledge Management & Intelligent System Center (KMIS) of University of Siegen, Germany; Intelligent Cyberspace Engineering Lab., ICEL, Texas A&M University, Commerce, Texas, USA;UMIT, Institute of Bioinformatics and Translational Research, Austria; Hawkeye Radiology Informatics, Department of Radiology, College of Medicine, University of Iowa, Iowa, USA;The International Council on Medical and Care Compunetics, Europe; US Chapter of World Academy of Science (<http://www.world-academy-of-science.org/>); Supercomputer Software Department (SSD), Institute of Computational Mathematics & Mathematical Geophysics, Russian Academy of Sciences, Russia; International Society of Intelligent Biological Medicine, USA; NDSU-CIIT Green Computing and Communications Laboratory, USA; Medical Image HPC & Informatics Lab (MiHi Lab), University of Iowa, Iowa, USA; High Performance Computing for Nanotechnology, USA; Manx Telecom, Europe; Computer Science Research, Education, and Applications Press; World Academy of Biomedical Sciences and Technologies; HoIP Telecom, Europe; Super Micro Computer, Inc., San Jose, California, USA; Intel Corporation; Hodges Health, UK; and OMG™. In addition, a number of university faculty members and their staff (names appear below and also on the cover of the proceedings), several publishers of computer science and computer engineering books and journals, chapters and/or task forces of computer science associations/organizations from 6 countries, and developers of high-performance machines and systems provided significant help in organizing the conference as well as providing some resources.

An important mission of WORLDCOMP (a federated congress to which this conference is affiliated with) includes "Providing a unique platform for a diverse community of constituents composed of scholars, researchers, developers, educators, and practitioners. The Congress makes concerted effort to reach out to participants affiliated with diverse entities (such as: universities, institutions, corporations, government agencies, and research centers/labs) from all over the world. The congress also attempts to connect participants from institutions that have **teaching** as their main mission with those who are affiliated with institutions that have **research** as their main mission. The congress uses a quota system to achieve its institution and geography diversity objectives."

The program committee would like to thank all those who submitted papers for consideration. About 65% of the submissions were from outside the United States. Each paper was peer-reviewed by two experts in the field for originality, significance, clarity, impact, and soundness. In cases of contradictory recommendations, a member of the conference program committee was charged to make the final decision; often, this involved seeking help from additional referees by using a double-blinded review process. In addition, papers whose authors included a member of the conference program committee were evaluated using the double-blinded review process. The only exception to the above evaluation process was for papers that were submitted directly to chairs/organizers of approved sessions/workshops; in these cases, the chairs/organizers were responsible for the evaluation of such submissions. The overall paper acceptance rate for regular papers was 27%; 16% of the remaining papers were accepted as poster papers (at the time of this writing, we had not yet received the acceptance rate for a few individual tracks.)

We are very grateful to the many colleagues who helped in organizing the conference. In particular, we would like to thank the members of the ICCV'12 Program Committee who we hope will offer their help

again in organizing the next year's conference (IPCV'13). The IPCV'12 Program Committee members were:

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We express our gratitude to keynote, invited, and individual conference/tracks and tutorial speakers - the list of speakers appears on the conference web site. We would also like to thank the followings: UCMSS (Universal Conference Management Systems & Support, California, USA) for managing all aspects of the conference; Dr. Tim Field of APC for managing the printing of the proceedings; and the staff of Monte Carlo Resort in Las Vegas for the professional service they provided. Last but not least, we would like to

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We present the proceedings of IPCV'12.

Steering Committee, IPCV 2012

<http://www.world-academy-of-science.org/worldcomp12/ws>

Contents

SESSION: MEDICAL APPLICATIONS, SCIENCE AND IMAGING

Improved Pars-Based PMRI Image Reconstruction as Linear Approximation	3
<i>Yufang Bao</i>	
Joint Invariants in Signature Theory Applied to Object Recognition	10
<i>Reza Aghayan, Tim Ellis, Jamshid Dehmeshki</i>	
Kernel-Based Object Tracking for Cerebral Palsy Detection	17
<i>Hodjat Rahmati, Ole Morten Aamo, Oyvind Stavdahl, Lars Adde</i>	
3D Reconstruction of Subthalamic Nuclei from MRI	24
<i>Shijun Tang, Bill P. Buckles, Kamesh Namuduri</i>	
A Novel Skull Stripping Method for T1 Coronal and T2 Axial Magnetic Resonance Images of Human Head Scans Based on Resonance Principle	29
<i>Somasundaram Karuppanagounder, Siva Shankar Ramasamy</i>	
Computer-Aided Technique for the Measurement of the Cobb Angle	36
<i>Tariq Abuzaghle, Buket Barkana</i>	
An Automated Method for Locating Phantom Nodules in Anthropomorphic Thoracic Phantom CT Studies	40
<i>Adele P. Peskin, Alden A. Dima, Ganesh Saiprasad</i>	
Computer-aided Software to Detect Breast Tumor Using In Situ Hybridization Images	46
<i>Guillermo Palacios-Navarro, Raquel Lacuesta-Gilaberte, Pedro Ramos-Lorente</i>	
The ROIs Segmentation Method of the Lungs Based on Adaptive EM Algorithm and Edge Gradient Information	52
<i>Ru Liu, Yang Liu, Maozu Guo, Rulin Ma, Ping Li</i>	
Classification of Mammograms by the Breast Composition	58
<i>Welber Ribeiro Silva, David Menotti</i>	
3D Surface Reconstruction of the Brain based on Level Set Method	64
<i>Shijun Tang, Bill P. Buckles, Kamesh Namuduri</i>	
Behavioral and Physiological Findings of Global-local Mental Rotation	69
<i>Xiang Qiu, Yiyuan Tang, Xiaolan Fu, Danni Sui, Yong Niu</i>	

Breaking the Resolution Limit in Medical Image Modalities 74
Krzysztof Malczewski

Computer Vision Technology on Biomechanical Diagnosis 78
Mauricio Plaza, Oscar Aviles, William Aperador

SESSION: VIDEO PROCESSING, ANALYSIS AND APPLICATIONS

Novel Video Transcoding System to Efficiently Realize Combinations of Use Cases 85
Hicham Layachi, Stephane Coulombe

A Static Video Summarization Approach with Automatic Shot Detection using Color Histograms 92
Edward Jorge Yuri Cayllahua Cahuina, Guillermo Camara-Chavez, David Menotti Gomes

Obstacle Detection from Disparity Analysis using an A-contrario Approach 99
Moez Ammar, Sylvie Le Hegarat-Mascle, Marius Vasiliu, Hugues Mounier

Background Modeling and Foreground Detection via a Reconstructive and Discriminative Subspace Learning Approach 106
Cristina Marghes, Thierry Bouwmans, Radu Vasiu

Detection of Visual Abnormal Events via One-class SVM 113
Tian Wang, Hichem Snoussi, Fethi Smach

Fish Observation, Detection, Recognition and Verification in The Real World 120
Yi-Haur Shiau, Sun-In Lin, Yi-Hsuan Chen, Shi-Wei Lo, Chaur-Chin Chen

Adaptive Covariance Tracking with Clustering-based Model Update 126
Lei Qin, Fahed Abdallah, Hichem Snoussi

Hybrid Method for Video Watermarking & Encryption 132
Hamsa Abdullah

Architectural Building Detection and Tracking under Rural Environment in Video Sequences Taken by Unmanned Aircraft System (UAS) 138
Qiang He, Henry Chu, Aldo Camargo

Fast Abnormal Event Detection From Video Surveillance 144
Solmaz Javanbakhti, Svitlana Zinger, Peter H.N. de With

SESSION: COMPRESSION METHODS AND ALGORITHMS

Optimized Compressive Image Sensing System over Mobile Wireless Noisy Channel 151
Yan Zhang, Suxia Cui, Dhadesugoor R. Vaman

A Simple Compression Method Using Motion Vector of Video Encoder in the Distributed System	158
<i>Yasuyuki Miura, Sho Nakane, Shigeyoshi Watanabe</i>	
Block-based Video Compressive Sensing with Exploration of Local Sparsity	165
<i>Akintunde Famodimu, Suxia Cui, Yonghui Wang, Cajetan Akujuobi</i>	
A Multi Scale Adaptive Compression Approach with Application to Peripheral Artery CT Images	171
<i>Mohsen Firoozbakht, Maria Martini, Salah Dine Qanadli, Sara Zahedi, Jamshid Dehmeshki</i>	
SESSION: NOVEL IMAGING APPLICATIONS AND ALGORITHMS	
CuNeuQuant: A CUDA Implementation of the NeuQuant Image Quantization Algorithm	179
<i>David Bottisti, Liuva Mendez, Damian Dechev</i>	
Wandless Realtime Autocalibration of Tactical Monocular Cameras	186
<i>Koray Celik, Arun Somani</i>	
An Imaging Framework for the Analysis of Longitudinal High-Dimensional Data	194
<i>Jeffery Painter</i>	
Development of a Hyperspectral Skin Database	201
<i>Timothy J. Roper, Mark Andrews</i>	
Runge Phenomenon: A Virtual Artifact in Image Processing	208
<i>Xiaoping Shen, Fairul Mohd-Zaid, Russell Francis</i>	
Robust Patch Estimation for Exemplar-based Image Inpainting	215
<i>Jiawen Wang, Hongbin Zhang</i>	
SIFT-Based Localization Using a Prior World Model for Robot Navigation in Urban Environments	222
<i>Herbert Vighh, Karl Ni</i>	
Tree Based Object Matching Using Multi-scale Covariance Descriptor	229
<i>Walid Ayedi, Hichem Snoussi, Fethi Smach, Mohamed Abid</i>	
Imaging with the Conformal Camera	234
<i>Jacek Turski</i>	
New Feature Correspondence Method using Bayesian Graph Matching Algorithm	241
<i>Wan Hyun Cho, In Seop Na, Sun Worl Kim, Soon Ja Kang</i>	

Autonomous Real Time Traffic Monitoring and Data Analysis	248
<i>Syed Shams-ul-Haq</i>	
Novel Approaches to the Parametric Cubic-Spline Interpolation	253
<i>Tsung-Ching Lin, Trieu-Kien Truong, Shaohua Hong, Lin Wang, Lung-Jen Wang</i>	
Shape Correspondence for Mixture Gaussian Shape Modeling: A Shape Categorization Approach	259
<i>Brent C. Munsell</i>	
Tone Mapping Algorithm for Luminance Separated HDR Rendering Based on Visual Brightness Functions	266
<i>Hyuk-Ju Kwon, Sung-Hak Lee, Seok-Min Chae, Kyu-Ik Sohng</i>	
Image Based Detection of D-cracking in Pavements	271
<i>Dwight Day, Allison McGath, Bala Natarajan</i>	
A Discrete Linear Method for Transitions Detection in Noisy Signals	278
<i>Ahmed Raji</i>	
Eyes-Free Barcode Detection on Smartphones with Niblack's Binarization and Support Vector Machines	284
<i>Vladimir Kulyukin, Aliasgar Kutiyawala, Tanwir Zaman</i>	
Intelligent Edge Detection using a CUDA Simulator of Multilayer Neural Network Based on Multi-Valued Neurons	291
<i>Jeff Wilson, Igor Aizenberg</i>	
Robust Horizontal Line Detection and Tracking in Occluded Environment for Infrared Cameras	298
<i>Sungho Kim, Soon Kwon, Byungin Choi</i>	
An Efficient Small Target Detection Method using Temperature Non-Linear Distribution and Double-Scale NWTHT transformation in IR Image	305
<i>Won-Hyung Choi, Byoung-Ik Kim, Tae-Wuk Bae, Young-Choon Kim, Sang-Ho Ahn, Duk-Gyoo Kim</i>	
Multi-focus Image Fusion using Clarity Map	310
<i>Zhiping Xu, Jinghong Pan</i>	
Integer Computation of Image Orthorectification for High Speed Throughput	317
<i>Paul Sundlie, Joseph French, Eric Balster</i>	

A Star-corner Algorithm for Building Extraction in Satellite/Aerial Images	322
<i>Melissa Cote, Parvaneh Saeedi</i>	
A Study on the Photo Response Non-Uniformity Noise Pattern based Image Forensics in Real-World Applications	326
<i>Yu Chen, Vrizlynn L. L. Thing</i>	
Black Hole: A Novel Structural Image Feature	333
<i>Cheng-Yuan Wu, Yuan-Kai Wang</i>	
Arm Pose Modeling for Visual Surveillance	340
<i>Chong Guo Li, N. H. C. Yung</i>	
Handwritten Signature Verification Using Hidden Markov Models	347
<i>Vahe Khachaturyan</i>	
The Graphometry Applied to Writer Identification	351
<i>Aline Maria M. M. Amaral, Cinthia O. A. Freitas, Flavio Bortolozzi</i>	
Non Parametric Feature Discriminate Analysis for High Dimension	357
<i>Wissal Drira, Faouzi Ghorbel</i>	
A Fuzzy Approach for the Automatic Off-line Signature Verification Problem Base on Geometric Features	362
<i>Mohammad Nasiri, Shima Bayati, Faramarz Safi</i>	
A Generalized Morphological Skeleton Transform Using both Internal and External Skeleton Points	368
<i>Jianning Xu</i>	
Enhanced HDR Image Rendering Method using Visual Acuity Based Edge Separation	374
<i>Geun-Young Lee, Sung-Hak Lee, Hyuk-Ju Kwon, Chan-Ho Han, Kyu-Ik Sohng</i>	
Local Binary Pattern Adaptive Diffusion for Image Denoising	379
<i>Ajay Kumar Mandava, Emma E. Regentova, Karen Egiazarian</i>	
Hyperspectral Image Feature Extraction and Selection Using Empirical Mode Decomposition PCA	385
<i>Samuel Aboagye, Suxia Cui</i>	
Automated Industrial Inspection of Capacitor Chips using Computer Vision	390
<i>Hong-Dar Lin, Wan-Ting Lin</i>	

An Automated Vehicle Counting System Based on Blob Analysis for Traffic Surveillance <i>Giuseppe Salvi</i>	397
An Automatic Status Report Generation (ASRG) Model for Degraded Manuscript Folios <i>Lalit Saxena, Ambuja Salgaonkar, Jayant Kirtane</i>	403
A Occupant Sensing System Using Distance Sensors for Smart Airbag <i>Byoung-Ik Kim, Won-Hyung Choi, Su-Young Ha, Young-Choon Kim, Sang-Ho Ahn, Duk-Gyoo Kim</i>	410
Data Hiding Algorithm using Two-way Encryption and Embedding in a Cover File- A New Method for Sending Password or Confidential Message <i>Joyshree Nath, Saima Ghosh, Asoke Nath</i>	414
A Hybrid Steganography Algorithm based on Chaos & BPCS <i>Saeed Toosizadeh, Seyyed Mohammad Reza Farshchi</i>	421
Design of a Laser Controlled Keyboard for Physically Challenged People <i>Ayan Paul, Pramit Dey, Dipanjan Saha, Asoke Nath</i>	425
Vector Graph Implementations in E-Book Viewer Software and Cloud Platform <i>Hsin-Wen Wei, Tseng-Yi Chen, Yen-Ju Lai, Yu-Yu Lai, Wei-Kuan Shih</i>	432
Coins Detection Using Eigenfaces Based Upon Principal Component Analysis <i>Muhammad Naveed, Rehanullah Khan, Zeeshan Khan, Syed Qasim Sattar, Yasir Ali Shah</i>	436
Detection and Restoration on Non-linear Scratches in Digitized Film Sequences <i>Byoung-Moon You, Kyung-Tack Jung, Sang-Kook Kim, Doo-Sung Hwang</i>	441
Towards License Plate Recognition: Comparing Moving Objects Detection Approaches <i>Vantuil Oliveira-Neto, Guillermo Camara-Chavez, David Menotti</i>	447
Layered Architecture for Advanced Image Search <i>Reshu Porwal, Sandeep Yadav, M. S. Patwardhan</i>	454
Automated Lane Detection for Vehicular Traffic <i>Shoaib Zaidi, Mir Shabbar Ali, Sohaib Nomani, Annus Bin Khalid, Fawad Shamim</i>	461
The Dual Bregman Algorithms of Generalized TV Models for Image Denoising <i>Zhenkuan Pan, Lei Gao, Weibo Wei, YuanPo Yu</i>	465
Integrated Digital System for Yarn Surface Quality Evaluation using Computer Vision and Artificial Intelligence <i>Li Sheng Yan, Feng Jie, Xu Bin Gang, Tao Xiao Ming</i>	472

Research for Mobile Robot Visual SLAM Navigation Mapping 477
Zhijian Jiang, Guanghui Li, Chunxiao Zhao

Exploiting Suitable Color Model for Ripeness Identification 483
Fatma Susilawati Mohamad, Azizah Abdul Manaf, Suriayati Chuprat

Extraction of Knowledge from Tunisian Historical Mosaics using Fuzzy Logic and Semantic Concepts Similarity Measure to Create a Fuzzy Metadata 489
Wafa Maghrebi, Mohamed A. Khabou, Adel M. Alimi

A Double-Shuffle Image-Encryption Algorithm 496
Abdelfatah Tamimi, Ayman Abdalla

Management of Smartphone based Parking Enforcement System 500
Doyeon Kim, Jaejoon Kim

Computer Vision Application in Graphic Processors 504
Marwa Chouchene, Fatma Sayadi, Rached Turki

SESSION: MOTION ANALYSIS AND ESTIMATION

Human Action Recognition in Videos via Principal Component Analysis of Motion Curves 511
Daniel S. Chivers, A. Ardeshir Goshtasby

Robust 6DOF Ego-Motion Estimation for Handheld Indoor Positioning 518
Christopher Nielsen, John Nielsen

Learning and Recognizing Human Actions Using PCA and 3-D Motion Trajectories 525
Daniel S. Chivers, A. Ardeshir Goshtasby

SESSION: FACE RECOGNITION, DETECTION, AND TRACKING

Identity- and Illumination-Robust Head Pose Estimation Using Manifold Learning 535
Chao Wang, Xubo Song

Optimized Algorithm for Face Detection Integrating Different Illuminating Conditions 541
Sumaya Abusaleh, Varun Pande, Khaled Elleithy

A New Approach to Bayesian Method for Face Recognition 547
Len Bui, Dat Tran, Xu Huang, Girija Chetty

Logarithm Discrete Cosine Transform Domain and Discrimination Power Analysis for Illumination Invariant Face Recognition 554
L. V. N. Carneiro, Guillermo Camara-Chavez

Color Face Recognition Based on Curvelet Transform	561
<i>Aysegul Ucar</i>	
Sparse Representation with Nearest Subspaces for Face Recognition	567
<i>Jinghua Wang, Jane You, Qin Li</i>	
Emotion Recognition from Facial Action Points by Principal Component Analysis	573
<i>Anisha Halder, Garima Singh, Arindam Jati, Amit Konar, Aruna Chakraborty, Atulya K. Nagar</i>	
Improved Eigenface Algorithm for Large DataSets using Hierarchical Dissimilar Subgrouping	579
<i>Ahmed ElSayed, Munther Abualkibash, Ausif Mahmood</i>	
Efficient Face Tracking and Detection in Video: Based on Template Matching	584
<i>Aree Ali Mohammed, Astrid Laubenheimer, Yusra Ahmed Salih</i>	
FPGA Implementation of an Embedded Face Detection System Based on LEON3	592
<i>Laurentiu Acasandrei, Angel Barriga</i>	
Detection of Human Face Motion and Its Application to Avatar Movement	598
<i>Jing Wen Zhou, Young-One Cho, Jin-Woo Jung</i>	
Simple and Fast Edge Detection of Frontal Facial Photographs	603
<i>Joshua Leonard, Suhair Amer</i>	
Person Identification Using Face and Iris Multimodal Biometric System	607
<i>Maryam Eskandari, Onsen Toygar</i>	
Face Recognition using Fusion Levels	612
<i>Elizabeth Garcia, Gualberto Aguilar, Enrique Escamilla, Edgardo Escoto</i>	
Face Gender Classification Based on Active Appearance Model and Fuzzy k-Nearest Neighbors	617
<i>Len Bui, Dat Tran, Xu Huang, Girija Chetty</i>	
Face Recognition Based on Supervised Learning	622
<i>Sangeeta Kakarwal, Ratnadeep Deshmukh, Vandana Jadhav Patil</i>	
SI2DPCA: A Low-Computation Face Recognition Approach	629
<i>Ying-Kuei Yang, Wei-Li Fang, Jung-Kuei Pan</i>	
PCA Face Verification System Using Smart Cards	634
<i>Alejandro Lara, Gualberto Aguilar, Gina Gallegos</i>	

SESSION: SEGMENTATION AND CLASSIFICATION METHODS AND APPLICATIONS

New Hough Transform-based Algorithm for Detecting L-shaped Linear Structures	641
<i>Ronald Ngatuni, Jong Kwan Lee, Luke West, Eric S. Mandell</i>	
Saliency Detection in Aerial Imagery Using Multi-Scale SLIC Segmentation	647
<i>Samir Sahli, Daniel. A. Lavigne, Yunlong Sheng</i>	
Application of Mathematical Morphology to Problems Related to Image Segmentation	654
<i>Bala Subrahmanyam Divakaruni, Sree Teja Sunkara</i>	
A Combination of Methods for Building Ensemble of Classifiers	661
<i>Loris Nanni, Sheryl Brahnam, Alessandra Lumini</i>	
Integrating Intensity and Texture in Markov Random Fields Segmentation	668
<i>Amer Dawoud, Anton Netchaev</i>	
Feature Selection for Classification of Remote Sensed Hyperspectral Images: A Filter Approach using Genetic Algorithm and Cluster Validity	675
<i>Andrey Bicalho Santos, Clayson Sandro F. de S. Celes, Arnaldo de Albuquerque Araujo, David Menotti</i>	
Classification of Satellite Images Based on Scale-Invariant Feature Transform	682
<i>Jinho Kim, Byung-soo Kim, Silvio Savarese</i>	
A Sector-wise Jpeg Data Fragment Classification Method Based on Image Content Analysis	688
<i>Yu Chen, Vrizlynn L. L. Thing</i>	
Object and Scene Image Classification Using Unconventional Color Descriptors	695
<i>Sugata Banerji, Atreyee Sinha, Chengjun Liu</i>	
Text Line Segmentation of Ancient Thai Manuscripts on Palm Leaves	702
<i>Rapeeporn Chamchong, Chun Che Fung</i>	
Marker Controlled Watershed Segmentation Using Bit-Plane Slicing	709
<i>M. Sivagami, T. Revathi</i>	
Automatic Segmentation Algorithm for Retinal Vasculature	715
<i>Muder Almiyani, Buket Barkana</i>	
Value of Probabilistic Atlas for Segmentation Related to Different Degrees of Freedom in Non-rigid Registration	721
<i>Hyunjin Park, Charles Meyer</i>	

A Simulation Study of Ship Contour Classification and Identification in Optical Military Surveillance. 726

Oscar Somsen , Fok Bolderheij

Scene Modeling using Edge Segment Distributions 732

Jaemyun Kim, Adin Ramirez Rivera, Minsun Park, Oksam Chae

A Hybrid Approach for Remote Sensed Hyperspectral Images Classification 738

Sandro Tinoco, Guillermo Camara-Chavez, David Menotti

Digital Zoom Based on HCI Color Model (Hue-Chroma-Intensity) 744

Seung Hwan Lee, Dong Hwan Koh, Hoon Kang

SESSION: STEREO, 3D, DEPTH ALGORITHMS AND APPLICATIONS

Registration of 3D-LiDAR Data With Visual Imagery Using Shape Matching 749

Yassine Belkhouche, Bill P. Buckles, Prakash Duraisamy, Kamesh Namuduri

3D Keypoints Detection for Objects Recognition 755

Ayet Shaiek, Fabien Moutarde

3D Dense Object Reconstruction via Flexible Planar Patch Fitting 762

Zen Chen, Chia-Chun Chang

Towards Automatic 3D Reconstruction of Pitched Roofs in Monocular Satellite/Aerial Images 769

Zachary Blair, Parvaneh Saeedi

A New 2D/3D Multi-Modality Image Registration Application for Non-Destructive Generic Aerospace Casting Evaluation 773

Zhen Jia, Xuefu Zhou, Chia-Yung Han, William Wee

Hand Detection and Tracking Using Depth and Color Information 779

Minsun Park, Md. Mehedi Hasan, Jaemyun Kim, Oksam Chae

Reconstruction of Occluded Objects Using Stereo Matching and Clustering 786

Kiseon Jeong, Moonyong Jin, Dong Sun Park, Sook Yoon

Multiple View Point Cloud Registration Based on 3D Lines 792

Wei Li, Xudong Li, Yun Bian, Huijie Zhao

Depth Data Enhancement using Color Information Based on Common Distance Transform	797
<i>Sung-Yeol Kim, Seong Eun Jang, Manbae Kim</i>	

SESSION: OBJECT RECOGNITION, TRACKING, MORPHING AND APPLICATIONS

Object Description and Finding of Geometric Structures on the Base of Extracted Straight Edge Segments in Digital Images	805
---	------------

V. Volkov, R. Germer, A. Oneshko, D. Oralov

Texture Sensitive Image Inpainting after Object Morphing	812
---	------------

Yin Chieh Liu, Yi-Leh Wu

Efficient Histogram-based Occluded Object Segmentation in Tracking System	819
--	------------

Moonyong Jin, Kiseon Jeong, Dong Sun Park

Robust Multi-Objects Detection and Tracking Algorithm under Complex Circumstance	825
---	------------

Tian Yumin , Tang Mingqian , Meng Ankui, Li Yuejiang

Image Object Tracking System Using Parallel Mean Shift Algorithm	831
---	------------

Sang Lee

SESSION: APPLICATION OF WAVELETS

P2SNR: Perceptual Full-Reference Image Quality Assessment for JPEG2000	835
---	------------

Jaime Moreno

Directionlet-based PURE-LET for Poisson Image Denoising	842
--	------------

Sandeep Palakkal, K. M. M. Prabhu

Real-time Arrow Traffic Light Recognition System for Intelligent Vehicle	848
---	------------

Zixing Cai, Mingqin Gu, Yi Li

Local Weighting: a Perceptual Quantization for JPEG2000	855
--	------------

Jaime Moreno

A Wavelet Based Complementary Approach for Image Enhancement	862
---	------------

Sertan Erkanli, Ismail Kosum, Ender Oguslu

SESSION: BIOMETRICS: GAIT, FINGERPRINT, PALMPRINT, AND KNUCKLE IDENTIFICATION

A Bag-of-Gait Model for Gait Recognition	871
---	------------

Jianzhao Qin, T. Luo, W. Shao, R. H. Y. Chung, K. P. Chow

A Hybrid Fingerprint Multimatcher	877
<i>Sheryl Brahnam, Cristiana Casanova, Loris Nanni, Alessandra Lumini</i>	
Biometric Identification using a New Direction in Contactless Palmprint Imaging	883
<i>Salma Ben Jemaa, Mohamed Hammami, Hanene Ben-Abdallah</i>	
Distributed Fingerprint Enhancement on a Multicore Cluster	890
<i>Nontokoza Portia Khanyile, Jules-Raymond Tapamo, Erick Dube</i>	
Finger Knuckle Print Based Authentication	898
<i>Ankur Jain, Richa Gupta, Madasu Hanmandlu</i>	

SESSION: RECOGNITION METHODS AND APPLICATIONS

An Eigenvalue-Problem Formulation for Non-Parametric Mutual Information Maximisation for Linear Dimensionality Reduction	905
<i>Raymond Liu, Duncan Gillies</i>	
Static Hand Gesture Recognition with 2 Kinect Sensors	911
<i>Radu P. Mihail, Nathan Jacobs, Judy Goldsmith</i>	
Hu and Zernike Moments for Sign Language Recognition	918
<i>Karla Catherine Otiniano-Rodriguez, Guillermo Camara-Chavez, David Menotti</i>	
Computational Modeling of Topographic Arrangements in Human Visual Cortex	923
<i>Yuheng Wang, Roger Gaborski</i>	
A Tweak on K-Nearest Neighbor Decision Rule	929
<i>Tanmay Basu, C. A. Murthy, Himadri Chakrabarty</i>	
ISIS and NISIS: New Bilingual Dual-Channel Speech Corpora for Robust Speaker Recognition	936
<i>Amita Pal, Smarajit Bose, Mandar Mitra, Sandipan Roy</i>	
Multi Resolution Enhanced Orthogonal Polynomials Based Autocorrelogram for Color Image Retrieval	940
<i>Ramasamy Krishnamoorthy, Shanmugam Sathiya Devi</i>	

SESSION: IMAGE PROCESSING, COMPUTER VISION, AND PATTERN RECOGNITION: NOVEL APPLICATIONS AND ALGORITHMS

A New Poisson Noisy Image Denoising Method Based on the Anscombe Transformation	949
<i>Jin Quan, William G. Wee, Chia Y. Han, Xuefu Zhou</i>	

Classification of Mouth Action Units using Local Binary Patterns	956
<i>Sarah Adel Bargal, Rana El Kaliouby, Amr Goneid, Anas Nayfeh</i>	
Evaluating the Quality of Online Image Registration for Aerial Images Using Virtual Forces	962
<i>Claudius Stern, Christoph Rasche, Lisa Kleinjohann, Bernd Kleinjohann</i>	
Countour Based HOG Deer Detection in Thermal Images for Traffic Safety	969
<i>Debao Zhou, Jingzhou Wang, Shufang Wang</i>	
Improving Coronal Mass Ejection Segmentation Using Pattern Recognition Techniques	975
<i>Matthew Jacobs, Antti Pulkkinen, Lin-Ching Chang</i>	
An Image-Based Optical Flow Approach to Determine Vehicle's Lateral Position	981
<i>Jiann-Shiou Yang</i>	
Attacks on Dynamic Time Warping-based Speech Biometric Authentication	988
<i>Keerati Inthavisas, Naratorn Sungprasert, Sittichok Aunkeaw</i>	
Which is Smoother: The Sphere or the Cone?	994
<i>Pedro F. Embid, James H. Cooley, Daniel M. Topa</i>	
Hand Dorsal Recognition	1001
<i>Ching-Liang Su</i>	
The Method of Component-based Image Retrieval in Document	1006
<i>Sung-Il Joo, Sun-Hee Weon, Hyung-Il Choi</i>	
Accurate Floor Detection and Segmentation for Indoor Navigation using RGB+D and Stereo Cameras	1011
<i>Muhammad Emaduddin, Khalid Al-Mutib, Mansour AlSulaiman, Hedjar Ramdane, Ebrahim Mattar</i>	
Creation of the Panoramic View of Surroundings from Succession of Photos	1018
<i>Robert Hakobyan, Lusine Balayan</i>	
A Survey of Intelligent Visual Surveillance Systems	1022
<i>Aaron Rababaah</i>	
Automated Gesture Recognition System and its Application to Control Home Appliances	1029
<i>A. Yashika Goel, Sangeeta Garg</i>	
A Rate Control Scheme for High Efficiency Video Coding Using a New Rate-Quantization Model	1036
<i>Bumshik Lee, Munchurl Kim</i>	

An Image Calibration Procedure for Enhancing the Performance of Video-Shot Detection Algorithm Based on Histogram Analysis	1042
<i>Arben Damoni, Debashis Mukherjee</i>	
Homography Estimation Using Analytical Fourier Mellin Transform	1046
<i>Malek Sellami, Faouzi Ghorbel</i>	
Inferring Parameters of a Gaussian Mixture by the HMRF-EM Algorithm from a Bootstrap Sample: Application to Brain MRI	1052
<i>Sabra Mabrouk, Slim M'hiri, Faouzi Ghorbel</i>	
The Effect of Segmentation Method on the Performance of Point Based Registration of Intra-Ultrasound with Pre-MR Images	1057
<i>Parastoo Farnia, Alireza Ahmadian, Alireza Khoshnevisan</i>	
Applying Recent Vein Image Enhancement Techniques In Vain Biometrics	1063
<i>Hatim Aboalsamh, Hind Alhashimi, Hassan Mathkour</i>	
An Invariant Bipolar Representation for 3D Surfaces	1069
<i>Majdi Jribi, Faouzi Ghorbel</i>	
Structural Similarity as A Prediction Metric in Lossy Image Set Compression	1075
<i>Jason Ranger, Howard Cheng</i>	
A Grey Weighting Density-based Clustering Algorithm for LAO Wafer Defect Inspection	1081
<i>Min-Lin Huang, Ming-Jong Tsai, C. C. Chen, S. C. Lin, Z. C. Lin</i>	
Filtering in Spatial and Frequency Domain: Examples and Tools	1087
<i>Shin Jou</i>	
3D Registration Based on a Multi-References Local Parametrisation: Application to 3D Faces	1094
<i>Wieme Gadacha, Faouzi Ghorbel</i>	
Local Quaternary Patterns and Feature Local Quaternary Patterns	1100
<i>Jiayu Gu, Chengjun Liu</i>	
On the Segmentation of Fingerprint Images: How to Select the Parameters of a Block-wise Variance Method	1107
<i>Ishmael S. Msiza, Fulufhelo V. Nelwamondo, Tshilidzi Marwala</i>	
Light Field Assisted Stereo Matching Using Depth From Focus and Image-Guided Cost-Volume Filtering	1114
<i>Jedrzey Kowalczyk, Eric T. Psota, Lance Perez</i>	

Depth Map Reconstruction Using Wavelet Analysis	1120
<i>Yu-Hong Lin, Chwen-Tzeng Su, Tienwei Tsai, Te-Wei Chiang</i>	
A New Feature Local Binary Patterns (FLBP) Method	1124
<i>Jiayu Gu, Chengjun Liu</i>	
Evaluation of the most Appropriate Kernel Function for the Purpose of Feature Extraction in Face Recognition in Video Surveillance Systems	1131
<i>Sepehr Damavandinejadmonfared, Sina Ashooritootkaboni, Taha Bahraminezhad Jooneghani</i>	
Fire Detection In Different Color Models	1135
<i>V. Burak Celen, M. Fatih Demirci</i>	
Gabor-Based Novel Color Descriptors for Object and Scene Image Classification	1142
<i>Atreyee Sinha, Sugata Banerji, Chengjun Liu</i>	
A Wavelet-Based Similarity Measure to Register Pre-/intra-operative MR Images of the Brain	1149
<i>Anahita Fathi Kazerooni, Alireza Ahmadian, Hooshang Saberi, Vahid Asayesh, Hamidreza Saligheh Rad</i>	
Adaptive Selection of Weights in Multi-scale Retinex using Illumination and Object Edges	1154
<i>Chan Young Jang, Joonho Hyun, Suyeong Cho, Hi-Seok Kim, Young Hwan Kim</i>	
Automatic Video Summarization of Sport Archives using Visual Features	1159
<i>D. S. Pandya, M. A. Zaveri</i>	
Using Linear Kernel Entropy Component Analysis as a Feature Extraction Method in Face Recognition in Video Surveillance Systems	1163
<i>Sepehr Damavandinejadmonfared, Sina Ashooritootkaboni, Taha Bahraminezhad Jooneghani</i>	
Temporal Sparse Scan for Human Detection in Video Sequences	1167
<i>Sanghun Kim, Dong-Gon Yoo, Hi-Seok Kim, Young Hwan Kim</i>	
A New Transmitted-reference FMCW-UWB Radar for Gasoline Tank Level Gauge	1171
<i>Sang-Dong Kim, Jong-Hun Lee</i>	
Improving Facial Recognition with Heterogeneous Set of Features	1175
<i>Kavita Singh, Mukesh Zaveri, Mukesh Raghuwanshi</i>	

A Novel Multiscale Recursive Recognition Method For Flying Airplane Objects	1179
<i>Tianxu Zhang, Gang Zhou, Ying Yang, Wenjie Weng, Xiangdong Sun</i>	
Adaptive Error Concealment Algorithm For Multiview Coding Based On Lost MBS Sizes	1186
<i>Mohamed Ebian, Mohamed El-Sharkawy, Salwa El-Ramly</i>	
Optical Character Recognition of Printed Mathematical Symbols Using a Hierarchical Classifier	1190
<i>Jason Ranger, Fei Wang, Howard Cheng</i>	
Age Estimation from 3D X-Ray CT Images of Human Fourth Ribs	1194
<i>Juan Carlos Prieto, Simona Mihaila, Alison Hilaire, Laurent Fanton, Christophe Odet, Chantal Revol-Muller</i>	
A Digital pulse Generator and RF Front-End Module for 24GHz Automotive Pulse-Doppler Radar	1196
<i>Yeonghwan Ju, Sang-Dong Kim, Jonghun Lee</i>	
On-road Vehicle Detection using Trinocular Stereo Cameras	1198
<i>Seung-Taek Oh, Yeul-Min Baek, Whoi-Yul Kim</i>	
LoCoStreaming - Lossy Compression for 3D Geometry Streaming	1200
<i>Sourabh Bodas, Pedro Santos, Martin Ritz, Andre Stork</i>	
Comparison of Wavelet Based Watermarking Techniques Using SVD	1201
<i>T Sudha, K Sunitha</i>	
Integration Of 3D Sfm Models With GIS	1206
<i>Constantino Malagon Luque, Roberto Rizky Garcia, Francisco Marzal Baro, Luis Izquierdo Mesa</i>	
Similarity of Dimensionality Reduction Methods Applied on Artificial Hyperspectral Images	1208
<i>Jihan Khoder, Rafic Younes, Fethi Ben Ouezdou</i>	