Signal processing, image processing and pattern recognition are areas that attract many professionals from academia and industry for research and development. The goal of the SIP conference is to bring together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of signal processing, image processing and pattern recognition.

We would like to express our gratitude to all of the authors of submitted papers and to all attendees for their contributions and participation.

We acknowledge the great effort of all the Chairs and the members of Advisory Boards and Program Committees of the above-listed event. Special thanks go to SERSC (Science and Engineering Research Support Society) for supporting this conference.

We are grateful in particular to the speakers who kindly accepted our invitation and, in this way, helped to meet the objectives of the conference.

December 2011                     Chairs of SIP 2011
Preface

We would like to welcome you to the proceedings of the 2011 International Conference on Signal Processing, Image Processing and Pattern Recognition (SIP 2011) — the partnering event of the Third International Mega-Conference on Future-Generation Information Technology (FGIT 2011) held during December 8–10, 2011, at Jeju Grand Hotel, Jeju Island, Korea.

SIP 2011 focused on various aspects of advances in signal processing, image processing and pattern recognition. It provided a chance for academic and industry professionals to discuss recent progress in the related areas. We expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject.

We would like to acknowledge the great effort of the SIP 2011 Chairs, Committees, Special Session Organizer, as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings, including the SERSC and Springer.

We are grateful to the following keynote, plenary and tutorial speakers who kindly accepted our invitation: Hsiao-Hwa Chen (National Cheng Kung University, Taiwan), Hamid R. Arabnia (University of Georgia, USA), Sabah Mohammed (Lakehead University, Canada), Ruay-Shiung Chang (National Dong Hwa University, Taiwan), Lei Li (Hosei University, Japan), Tadashi Dohi (Hirosima University, Japan), Carlos Ramos (Polytechnic of Porto, Portugal), Marcin Szczuka (The University of Warsaw, Poland), Gerald Schaefer (Loughborough University, UK), Jinan Fiaidhi (Lakehead University, Canada) and Peter L. Stanchev (Kettering University, USA), Shusaku Tsumoto (Shimane University, Japan), Jemal H. Abawajy (Deakin University, Australia).

We would like to express our gratitude to all of the authors and reviewers of submitted papers and to all attendees, for their contributions and participation, and for believing in the need to continue this undertaking in the future.

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December 2011

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# Table of Contents

Image Content Detection Method Using Correlation Coefficient between Pixel Value Histograms ........................................... 1  
Kousuke Imamura, Hideo Kuroda, and Makoto Fujimura

Measuring Blockiness of Videos Using Edge Enhancement Filtering...... 10  
Md. Mehedi Hasan, Kiok Ahn, and Oksam Chae

An Improved Joint Particle Filter Algorithm for Multi-target Tracking ................................................................. 20  
Jin-Long Yang and Hong-Bing Ji

Enhanced Fuzzy-Based Models for ROI Extraction in Medical Images ................................................................. 26  
Yasser El-Sonbaty, Sherin M. Youssef, and Karma M. Fathalla

A Variation of Local Directional Pattern and Its Application for Facial Expression Recognition ........................................... 36  
Tianwei Xu, Juxiang Zhou, and Yunqiong Wang

Application of Fourier Transform to Get an Original Satellite Image without Applying the SRM or 180 Degree Rotation .................. 48  
Subhasis Kesh and Srishty Chakravarty

Evaluating Inpainting Methods to the Satellite Images Clouds and Shadows Removing .................................................... 56  
Ana Carolina Siravenha, Danilo Sousa, Aline Bispo, and Evaldo Pelaes

Comparing Different High-Pass Filters to Improve the Accuracy of Classification of Satellite Imagery Obstructed by Clouds and Fog ........................................... 66  
Danilo Sousa, Ana Carolina Siravenha, and Evaldo Pelaes

A Fast Implementation of Semi-Markov Conditional Random Fields ....... 74  
La The Vinh, Sungyoung Lee, and Young-Koo Lee

Adapted Scan Based Lossless Image Compression ................................. 82  
Tarek Ouni, Arij Lassoued, and Mohamed Abid

Localization of Passengers Inside Intelligent Vehicles by the Use of Ultra Wideband Radars ......................................... 92  
Philipp Galdia, Carsten Koch, and Anthimos Georgiadis
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectral Density Analysis: Theta Wave as Mental Stress Indicator</td>
<td>103</td>
</tr>
<tr>
<td>Saidatul Ardeenawatie Awang, Paulraj Murugesa Pandiyan, Sazali Yaacob, Yusnita Mohd Ali, Fadzly Ramidi, and Fauziah Mat</td>
<td></td>
</tr>
<tr>
<td>Leaf Image Analysis towards Plant Identification</td>
<td>113</td>
</tr>
<tr>
<td>Debnath Bhattacharyya, Tai-hoon Kim, and Gang-soo Lee</td>
<td></td>
</tr>
<tr>
<td>Watermarking Using Multiresolution Cosine Transformation: A Review</td>
<td>126</td>
</tr>
<tr>
<td>Debnath Bhattacharyya, Tai-hoon Kim, and Gang-soo Lee</td>
<td></td>
</tr>
<tr>
<td>Use of Artificial Neural Network in Bengali Character Recognition</td>
<td>140</td>
</tr>
<tr>
<td>Debnath Bhattacharyya, Tai-hoon Kim, and Gang-soo Lee</td>
<td></td>
</tr>
<tr>
<td>New Algorithm for Skewing Detection of Handwritten Bangla Words</td>
<td>153</td>
</tr>
<tr>
<td>Rajib Ghosh, Debnath Bhattacharyya, Tai-hoon Kim, and Gang-soo Lee</td>
<td></td>
</tr>
<tr>
<td>An Extended Set of Haar-like Features for Bird Detection Based on AdaBoost</td>
<td>160</td>
</tr>
<tr>
<td>Chih-Cheng Huang, Chun-Yi Tsai, and Horng-Chang Yang</td>
<td></td>
</tr>
<tr>
<td>A Non-blind Digital Image Watermarking Method Based on the Dyadic Wavelet Transform and Interval Arithmetic</td>
<td>170</td>
</tr>
<tr>
<td>Teruya Minamoto and Ryuji Ohura</td>
<td></td>
</tr>
<tr>
<td>Song Classification: Classical and Non-classical Discrimination Using MFCC Co-occurrence Based Features</td>
<td>179</td>
</tr>
<tr>
<td>Arijit Ghosal, Rudrasis Chakraborty, Bibhas Chandra Dhara, and Sanjoy Kumar Saha</td>
<td></td>
</tr>
<tr>
<td>Gabor Based Gender Classification with Classifier Independent Feature Selection</td>
<td>186</td>
</tr>
<tr>
<td>Aun Irtaza, M. Arfan Jaffar, and Tae-Sun Choi</td>
<td></td>
</tr>
<tr>
<td>Data Hiding in Images Using Some Efficient Steganography Techniques</td>
<td>195</td>
</tr>
<tr>
<td>Chandreyee Maiti, Debanjana Baksi, Ipsita Zamider, Pinky Gorai, and Dakshina Ranjan Kisku</td>
<td></td>
</tr>
<tr>
<td>Context Based Speech Analysis of Bengali Language as a Part of TTS Conversion</td>
<td>204</td>
</tr>
<tr>
<td>Nabanita Mukherjee, Imon Mukherjee, Debnath Bhattacharyya, and Tai-hoon Kim</td>
<td></td>
</tr>
<tr>
<td>Image Searching with Eigenfaces and Facial Characteristics</td>
<td>215</td>
</tr>
<tr>
<td>Ayesha Kurukulasooriya and Anuja T. Dharmarathne</td>
<td></td>
</tr>
</tbody>
</table>
Design of DT-CNN for Imputing Data at Unobserved Location of Geostatistics Image Dataset .................................................. 225
   Sathit Prasomphan, Hisashi Aomori, and Mamoru Tanaka

Enhanced Edge Localization and Gradient Directional Masking for Moving Object Detection ............................................. 234
   Pranab K. Dhar, Mohammad I. Khan, D.M.H. Hasan, and Jong-Myon Kim

Automatic Detection of Face and Facial Landmarks for Face Recognition .................................................................................. 244
   Hajra Momin and Jules-Raymond Tapamo

A Tool for Ranking and Enhancing Aesthetic Quality of Paintings ...... 254
   W.A.P. Wickramasinghe, Anuja T. Dharmaratne, and N.D. Kodikara

Aging Progression of Elderly People Using Image Morphing ................ 261
   L.L. Gayani Kumari and Anuja T. Dharmaratne

Off-line Signature Verification Based on Combination of Modified Direction and Microstructure Features ................................. 270
   Danfeng Yang, Yuzhu Qin, Zhimin Huang, and Yue Lu

Heart Sound Feature Reduction Approach for Improving the Heart Valve Diseases Identification ............................................... 280
   Mostafa A. Salama, Aboul Ella Hassanien, Aly A. Fahmy, and Tai-hoon Kim

Comparison of Different Ontology-Based Query Expansion Algorithms for Effective Image Retrieval ........................................ 291
   C.H.C. Leung and Yuanxi Li

Fast Reconstruction Technique for Medical Images Using Graphics Processing Unit ................................................................. 300
   Mohammad Nazmul Haque, Mohammad Shorif Uddin, M. Abdullah-Al-Wadud, and Yoojin Chung

Adaptive Image Zooming Based on Bilinear Interpolation and VQ Approximation ..................................................................... 310
   Yu-Chen Hu, Wu-Lin Chen, and Jun-Rong Zeng

An Enhanced Fuzzy C-Means Clustering (ECFMC) Algorithm for Spot Segmentation ................................................................. 320
   A. Sri Nagesh, G.P. Saradhi Varma, A. Govardhan, and B. Raveendra Babu

On Intuitionistic Fuzzy T-ideals in TM-Algebra ................................. 328
   Megalai Kandasamy and Tamilarasi Angamuthu
Mitigating Congestion and Improving the Performance of Wireless Sensor Networks .................................................................................................................. 336
  S. Raj Barath, C. Kezi Selva Vijila, and A. Jaya Prakash

Robust Key Points Matching by Ordinal Measure ........................................... 346
S. Lakshmi and V. Sankaranarayanan

Performance Enhanced Hybrid Kohonen-Hopfield Neural Network for Abnormal Brain Image Classification .................................................. 356
D. Jude Hemanth, C. Kezi Selva Vijila,
A. Immanuel Selvakumar, and J. Anitha

Middleware for Physical and Logical Context Awareness .............................. 366
Junzhong Gu

The Use of Biorthogonal Wavelet, 2D Polynomial and Quadtree to Compress Color Images .................................................................................. 379
Loay E. Goerge and Bushra A. Sultan

A Robust Method for Head Orientation Estimation Using Histogram of Oriented Gradients ................................................................. 391
Dinh Tuan Tran and Joo-Ho Lee

Fusion of Gait and Facial Feature Using PCA .................................................. 401
Sanjeev Sharma, Ritu Tiwari, Anupam Shukla, and Vikas Singh

Shockwave Velocity Estimation from Laser Induced Breakdown Images .............. 410
Jaemyoung Lee

A Temporal Item-Based Collaborative Filtering Approach ............................ 414
Lei Ren, Junzhong Gu, and Weiwei Xia

A New Fusion Algorithm for Dim Target Detection Based on Dual-Wave Infrared Images ................................................................. 422
Jin Liu, Shao-Hua Wang, and Hong-Bing Ji

Fractal Analysis and the Effect of Aging on the Heart Rate and Breathing Frequency Relationship ................................................................. 430
Wilson Bucaoto, Han Jong Kim, and Artem Lenskiy

Relational Features for Texture Classification ................................................. 438
Wan Nural Jawahir Hj Wan Yussof and Hans Burkhardt

Author Index ........................................................................................................ 449