

Table of Contents

Preface	v
Organizing Committees	vii
ICSCA 2012 Session 1	
Fuzzy Expert System for Marketing Decision Model using Development Knowledge-based System <i>Kayvan Ghaderi and Vafa Mairami</i>	1
A Novel Multi-domain Hybrid Grooming Algorithm for Green IP over WDM Network <i>Zhimin Sun, Weigang Hou and Lei Guo</i>	10
Connected Dominating Set of Hypercubes and Star Graphs <i>Y-Chuang Chen and Ya-Ling Syu</i>	15
Quantifying Software Reliability Attribute through the Adoption of Weighting Approach to Functional Requirements <i>Mona Abd Elghany, Nermin Khalifa and Marwa Abd Elghany</i>	20
Analyze and Solve the Ethics Problem in the Process of Software Engineering <i>Meng Yang</i>	28
ICSCA 2012 Session 2	
Optical Tomography: The Effect of Interpolation Technique towards Image Performance <i>Siti Zarina Mohd Muji, Ruzairi Abdul Rahim, Herlina Abdul Rahim and Mohd Hafiz Fazalul Rahiman</i>	33
Codeless Communication and the Shannon-Weaver Model <i>Sabah Al-Fedaghi</i>	38
Optimum Design for Nonlinear Problems Using Modified Ant Colony Optimization <i>Dae-Ho Chang, Kwang-Seon Yoo, Jae-Yong Park and Seog-Young Han</i>	45
Topology Optimization for Dynamic Problems Using Modified Artificial Bee Colony Algorithm <i>Dae-Ho Chang, Ji-Yong Park, Jae-Yong Park and Seog-Young Han</i>	50
Automatic Music Genre Classification for Indian Music <i>S. Jothilakshmi and N. Kathiresan</i>	55
ICSCA 2012 Session 3	
Analysis of Monitoring Tools for Java Applications <i>Ramya Dharam and Sajjan G. Shiva</i>	60
Using Architectural Patterns to Improve Modularity in Software Architectural Design <i>Sayed Mehran Sharafi, Morteza Ghasemi and Naser Nematbakhsh</i>	65
A Novel CAF Based on Multirate Signal Processing and Envelope Shift Compensation <i>Yuan Feng, Tao Shan and Zhihai Zhuo</i>	71
Integrating User Roles with Cloud Interfaces <i>Sitalakshmi Venkatraman, Bimlesh Wadhwa, Akash Nemani and Venkat Ramanathan</i>	77
Automated Test Cases Generation from UML Sequence Diagram <i>A. V. K. Shanthi and G. Mohan Kumar</i>	83
ICSCA 2012 Session 4	
Assessing the Effectiveness of K-Cell Application to Promote Active Learning to Learn Theoretical Subject	90

<i>Nik Azlina N. A.</i>	
Cooperative Resizing Technique for Stereo Image Pairs <i>Huei-Yung Lin, Chin-Chen Chang and Chia-Hao Hsieh</i>	96
Sharing of Generic Single-user Application without Interference in a Cluster <i>Chen Guo, Cen zhe Zhu and Teng Tiow Tay</i>	101
A Study on the Geo-graphic Recognition for Handheld Computers and Smartphones in Location-Based Services <i>Jinsuk Kang</i>	106
Fusion of PCA and LDA based Face Recognition System <i>Jamal Ahmad Dargham, Ali Chekima and Ervin Gubin Moun g</i>	111
ICSCA 2012 Session 5	
Comparing English and Persian Text Summarization Based on Fuzzy Logic <i>Farshad Kiyoumars i, Fariba Rahimi Esfahani and Parisa Rahimi Esfahani</i>	117
XYZ/E and its Application to the TIPS <i>Liu Manxia, Zhang Jin, Li Yelong, Zhang Yuxun and Liu Junfei</i>	122
Towards Scalability Issue in Ontology-based Context-aware Systems <i>Cen zhe Zhu, Chen Guo, Jin Wang and Teng Tiow Tay</i>	127
Test Requirement Model: as a Bridge Connecting SUT and Test Design <i>Mei Tian, Ji Wu and Ruilong Gong</i>	132
A Domain-Specific Modeling for Dynamically Reconfigurable Environmental Sensing Applications <i>Mohammad Fajar, Kenji Hisazumi, Tsuneo Nakanishi and Akira Fukuda</i>	137
ICSCA 2012 Session 6	
A Survey of Intelligent Approaches in Wireless Sensor Networks for Efficient Energy Consumption <i>Yingbing Yu</i>	144
An Implementation of the IEEE 1588 MAC with a Packet Identification Encryption <i>Chi-Chun Chen, San-Fu Wang, Lung-Chih Kuo, Suan-Yuan Lai, Chang-Hsien Chen and Hsiao-Hui Lee</i>	149
Computer Application in Long Term Diabetes Compensation Management of OLDES <i>Nilesh Meshram, Onkar Kemkar and Pradeep Dahikar</i>	153
Privacy Preserving Mining of Association Rules on Horizontally Distributed Databases <i>Seyed Ziaeddin Alborzi, Fatemeh Raji and Mohammad H. Saraee</i>	158
Effect of Computer based Instructional Strategies in Learning Chemistry at Higher Secondary Level <i>B. Saminathan</i>	165
ICSCA 2012 Session 7	
Graph Database Model for Querying, Searching and Updating <i>Prashish Rajbhandari, Rabi Chandra Shah and Sonali Agarwal</i>	170
Performance Evaluation and Comparison of Facsimile Transmission in IP and PSTN Networks <i>Manju Jose and S. K. Srivatsa</i>	176
Measuring the Impact of Changing Requirements on Schedule Variance: An Empirical Investigation <i>Bushra Sharif, Shoab A. Khan and Muhammad Wasim Bhatti</i>	184
Study on Classifiers using Genetic Algorithm and Class based Rules Generation	190

Maragatham G and Lakshmi M

Fuzzy Logic Optimized Vector Protocol for Underwater Sensor Network <i>Sohrab Sarafiabadi, Sara Parvaneh, SeyedKeyvan Babai and Yashar Sarafiabadi</i>	195
ICSCA 2012 Session 8	
New Modular Software Development Principles, a Decentralized Approach <i>Mirali Sharifi Bonab and Gholam Ali Nejad HajAli Irani</i>	200
New Modular Authentication and Authorization Architecture, a Decentralized Approach <i>Javad Sohafi Bonab and Gholam Ali Nejad HajAli Irani</i>	205
New Half tone Operators for High Data Compression in Video-Conferencing <i>H.B. Kekre, Tanuja K. Sarode, Sanjay R. Sange and Pallavi Halarnkar</i>	211
Comparative analysis of Fuzzy Clustering Algorithm for Industrial Process Monitoring <i>Kiran Jyoti and Satyaveer Singh</i>	218
A Fuzzy Predictive Handover Mechanism based on MIH Links Triggering in Heterogeneous Wireless Networks <i>Yass. K. Salih, Ong Hang See and Salman Yussof</i>	225
MRI Image Processing with Intelligence: Step towards Computer Aided Diagnostic (CAD) in Healthcare Systems <i>Manojkumar. S. Kathane and Vilas Thakare</i>	230
MEDA-Principles: towards new Principles on Software Modularity <i>Gholam Ali Nejad Haj Ali Irani</i>	238
A Review of Information System Evaluation Methods <i>Hsin-Ke Lu, Peng-Chun Lin, Chia-Hui Lo and Mei-Yao Wu</i>	243
Information Retrieval using Ontology based Authentication for Personal Identification <i>S Santhosh Baboo and P Shanmuga Priya</i>	249
Author Index	254