

Table of Contents

Advances in Computing and Information Technology

Output Regulation of the Unified Chaotic System	1
Sundarapandian Vaidyanathan	
Global Chaos Synchronization of Hyperchaotic Bao and Xu Systems by Active Nonlinear Control	10
Sundarapandian Vaidyanathan and Suresh Rasappan	
Stabilization of Large Scale Discrete-Time Linear Control Systems by Observer-Based Reduced Order Controllers	18
Sundarapandian Vaidyanathan and Kavitha Madhavan	
Review of Parameters of Fingerprint Classification Methods Based On Algorithmic Flow	28
Dimple Parekh and Rekha Vig	
Adv-EARS: A Formal Requirements Syntax for Derivation of Use Case Models	40
Dipankar Majumdar, Sabnam Sengupta, Ananya Kanjilal, and Swapn Bhattacharya	
Tender Based Resource Scheduling in Grid with Ricardo's Model of Rents	49
Ponsy R.K. Sathiabhama, Ganeshram Mahalingam, Harish Kumar, and Dipika Ramachandran	
An Adaptive Pricing Scheme in Sponsored Search Auction: A Hierarchical Fuzzy Classification Approach	58
Madhu Kumari and Kamal K. Bharadwaj	
Optimization of Disk Scheduling to Reduce Completion Time and Missed Tasks Using Multi-objective Genetic Algorithm	68
R. Muthu Selvi and R. Rajaram	
Goal Detection from Unsupervised Video Surveillance	76
Chirag I. Patel, Ripal Patel, and Palak Patel	
Data Mining Based Optimization of Test Cases to Enhance the Reliability of the Testing	89
Lilly Raamesh and G.V. Uma	
An Insight into the Hardware and Software Complexity of ECUs in Vehicles	99
Rajeshwari Hegde, Geetishree Mishra, and K.S. Gurumurthy	

14 Table of Contents

Local Binary Patterns, Haar Wavelet Features and Haralick Texture Features for Mammogram Image Classification Using Artificial Neural Networks	107
.....	
Simily Joseph and Kannan Balakrishnan	
A Hybrid Genetic-Fuzzy Expert System for Effective Heart Disease Diagnosis	115
E.P. Ephzibah	
Genetic Algorithm Technique Used to Detect Intrusion Detection	122
Payel Gupta and Subhash K. Shinde	
Online Delaunay Triangulation Using the Quad-Edge Data Structure ...	132
Chintan Mandal and Suneeta Agarwal	
A Novel Event Based Autonomic Design Pattern for Management of Webservices	142
Vishnuvardhan Mannava and T. Ramesh	
Towards Formalization of Ontological Descriptions of Services Interfaces in Services Systems Using CL	152
Amit Bhandari and Manpreet Singh	
Advanced Data Warehousing Techniques for Analysis, Interpretation and Decision Support of Scientific Data	162
Vuda Sreenivasarao and Venkata Subbareddy Pallamreddy	
Anti-synchronization of Li and T Chaotic Systems by Active Nonlinear Control	175
Sundarapandian Vaidyanathan and Karthikeyan Rajagopal	
Message Encoding in Nucleotides	185
Rahul Vishwakarma, Satyanand Vishwakarma, Amitabh Banerjee, and Rohit Kumar	
XIVD: Runtime Detection of XPath Injection Vulnerabilities in XML Databases through Aspect Oriented Programming	192
Velu Shanmuganeethi, Ra. Yagna Pravin, and S. Swamynathan	
Multilevel Re-configurable Encryption and Decryption Algorithm	202
Manoharan Sriram, V. Vinay Kumar, Asaithambi Saranya, and E. Tamarai Selvam	
Segmentation of Printed Devnagari Documents	211
Vikas J. Dongre and Vijay H. Mankar	
An Adaptive Jitter Buffer Playout Algorithm for Enhanced VoIP Performance	219
Atri Mukhopadhyay, Tamal Chakraborty, Suman Bhunia, Iti Saha Misra, and Salil Kumar Sanyal	

Optimizing VoIP Call in Diverse Network Scenarios Using State-Space Search Technique	231
Tamal Chakraborty, Atri Mukhopadhyay, Suman Bhunia, Iti Saha Misra, and Salil Kumar Sanyal	
State-Based Dynamic Slicing Technique for UML Model Implementing DSA Algorithm	243
Behera Mamata Manjari, Dash Rasmita, and Dash Rajashree	
Self Charging Mobile Phones Using RF Power Harvesting	253
Ajay Sivaramakrishnan, Karthik Ganesan, and Kailarajan Jeyaprakash Jegadishkumar	
A Servey on Bluetooth Scatternet Formation	260
Pratibha Singh and Sonu Agrawal	
Text Mining Based Decision Support System (TMbDSS) for E-governance: A Roadmap for India	270
Gudda Koteswara Rao and Shubhamoy Dey	
IMPACT-Intelligent Memory Pool Assisted Cognition Tool : A Cueing Device for the Memory Impaired	282
Samuel Cyril Naves	
A Secure Authentication System Using Multimodal Biometrics for High Security MANETs	290
B. Shanthini and S. Swamynathan	
Error Detection and Correction for Secure Multicast Key Distribution Protocol	308
P. Vijayakumar, S. Bose, A. Kannan, V. Thangam, M. Manoji, and M.S. Vinayagam	
Empirical Validation of Object Oriented Data Warehouse Design Quality Metrics	320
Jaya Gupta, Anjana Gosain, and Sushama Nagpal	
Plagiarism Detection of Paraphrases in Text Documents with Document Retrieval	330
S. Sandhya and S. Chitrakala	
An XAML Approach for Building Management System Using WCF	339
Surendhar Thallapelly, P. Swarna Latha, and M. Rajasekhara Babu	
Hand Gesture Recognition Using Skeleton of Hand and Distance Based Metric	346
K. Sivarajesh Reddy, P. Swarna Latha, and M. Rajasekhara Babu	
DWCLEANSER: A Framework for Approximate Duplicate Detection ...	355
Garima Thakur, Manu Singh, Payal Pahwa, and Nidhi Tyagi	

A Dynamic Slack Management Technique for Real-Time System with Precedence and Resource Constraints	365
Santhi Baskaran and Perumal Thambidurai	
Multi-level Local Binary Pattern Analysis for Texture Characterization	375
R. Suguna and P. Anandhakumar	
Brain Tissue Classification of MR Images Using Fast Fourier Transform Based Expectation- Maximization Gaussian Mixture Model	387
Ramasamy Rajeswari and P. Anandhakumar	
Network Intrusion Detection Using Genetic Algorithm and Neural Network	399
A. Gomathy and B. Lakshmi pathi	
Performance Evaluation of IEEE 802.15.4 Using Association Process and Channel Measurement	409
Jayalakshmi Vaithianathan, Ramesh Kumar Raju, and Geetha Sadayan	
Efficient Personalized Web Mining: Utilizing the Most Utilized Data	418
L.K. Joshila Grace, V. Maheswari, and Dhinaharan Nagamalai	
Performance Comparison of Different Routing Protocols in Vehicular Network Environments	427
Akhtar Husain, Ram Shringar Raw, Brajesh Kumar, and Amit Doegar	
A BMS Client and Gateway Using BACnet Protocol	437
Chaitra V. Bharadwaj, M. Velammal, and Madhusudan Raju	
Implementation of Scheduling and Allocation Algorithm	450
Sangeetha Marikkannan, Leelavathi, Udhayasuriyan Kalaiselvi, and Kavitha	
Interfacing Social Networking Sites with Set Top Box	460
Kulkarni Vijay and Anupama Nandeppanavar	
Comparison between K-Means and K-Medoids Clustering Algorithms . . .	472
Tagaram Soni Madhulatha	
Performance of Routing Lookups	482
S.V. Nagaraj	
Multi Agent Implementation for Optimal Speed Control of Three Phase Induction Motor	488
Rathod Nirali and S.K. Shah	

Indexing and Querying the Compressed XML Data (IQCX)	497
Radha Senthilkumar, N. Suganya, I. Kiruthika, and A. Kannan	
Discovering Spatiotemporal Topological Relationships	507
K. Venkateswara Rao, A. Govardhan, and K.V. Chalapati Rao	
A Novel Way of Connection to Data Base Using Aspect Oriented Programming.....	517
Bangaru Babu Kuravadi, Vishnuvardhan Mannava, and T. Ramesh	
Enhanced Anaphora Resolution Algorithm Facilitating Ontology Construction	526
L. Jegatha Deborah, V. Karthika, R. Baskaran, and A. Kannan	
A New Data Mining Approach to Find Co-location Pattern from Spatial Data	536
M. Venkatesan, Arunkumar Thangavelu, and P. Prabhavathy	
Author Index	547

