

2010 International Conference on Methods and Models in Computer Science

(ICM2CS 2010)

**New Delhi, India
13 – 14 December 2010**



**IEEE Catalog Number: CFP1094H-PRT
ISBN: 978-1-4244-9701-0**

Table of Contents

COPYRIGHT

PREFACE

ORGANIZING COMMITTEE

TECHNICAL /ADVISORY COMMITTEE

1. Comparison of Hidden Markov Models and Support Vector Machines for Vehicle Crash Detection <i>Gautam B. Singh and Haiping Song</i>	1
2. Rough Set Based Gene Selection Algorithm for Microarray Sample Classification <i>Sushmita Paul and Pradipta Maji</i>	7
3. Automated Knowledge Engineering Using Rough Set Approach <i>Mishra B.K., Bissoyi S. and Das S.K.</i>	14
4. A Novel Rank Ordered Filter Based Edge Enhancement of Medical Images Using Intuitionistic Fuzzy Set Theory <i>Tamalika Chaira</i>	18
5. Synthesis and Performance Analysis of a Recurrent Fuzzy Multilayer Perceptron for Speech Recognition <i>Akshay Gupta</i>	22
6. Applications of Clustering Algorithms and Self Organizing Maps as Data Mining and Business Intelligence Tools on Real World Data Sets <i>Lavneet Singh, Savleen Singh and Parminder Kumar Dubey</i>	27
7. Context Ontology Driven Relevant Search Using Data Mining Techniques (CODT) <i>Nisha Pahal, Payal Gulati, Poonam and Parul Gupta</i>	34
8. Web Search Result Optimization by Mining the Search Engine Query Logs <i>A.K. Sharma, Neha Aggarwal, Neelam Duhan and Ranjna Gupta</i>	39
9. Image Compression Analysis Using Multistage Vector Quantization Based on Discrete Wavelet Transform <i>Adnan Mohsin Abdulazeez, Brifceni and Jwan Najeeb Al-Bamerny</i>	46
10. Development of Descriptors for Natural Feature Identification on IRS LISS III Images <i>D.N. Verma, Nimisha Garg, Neha Garg, Neha Mishra and Garima Dosi</i>	54
11. Comparative Performance Analysis of Proposed Variants of List Accessing Algorithms Using Centralized Cost Model with DoublyLinked List <i>Rakesh Mohanty, H.S. Behera, Sasmita Tripathy, Babita Nayak, Ankit Agrawal and S. Mallick, S. Sourav</i>	59
12. Distributed Algorithm for Optimized Vertex Coloring <i>Sunita Choudhary and G.N. Purohit</i>	65
13. Implementation of Data Compression Using Huffman Coding <i>K. Ashok Babu and V. Satish Kumar</i>	70
14. The Application of Sixth Order Accurate Parallel Quarter Sweep Alternating Group Explicit Algorithm for Nonlinear Boundary Value Problems with Singularity <i>Navnit Jha</i>	76

15. Design Pattern Detection by Normalized Cross Correlation <i>Manjari Gupta, Akshara Pande, Rajwant Singh Rao and A.K. Tripathi</i>	81
16. Optimization of Media Processor Performance through Sub Word Virtual Register Design <i>Munesh Singh Chauhan</i>	85
17. Selection of Cluster-head Using PSO in CGSR Protocol <i>Haider Raza, Poonam Nandal and Silky Makker</i>	91
18. Cluster Based Approach for Centralized Routing <i>Neha Sharma and Rubal Chaudhry</i>	95
19. Call Admission Control and Congestion Control for Integrated Packet Networks <i>Supriya B. Harlapur, J. D. Mallapur, Ajayakumar C. Katageri and Virupakshreddy S. Patil</i>	100
20. An Improved Architecture for Minimizing Handover Latency in MIPv6 <i>Shilpy Gupta and Sapna Gambhir</i>	106
21. Energy Efficient Routing for MANET <i>Ashwani Kush, Sunil Taneja and Divya Sharma</i>	112
22. Performance Evaluation of Mobile Ad Hoc Network Routing Protocols under Various Security Attacks <i>Yogesh Sharma, Amandeep Sharma and Jyotsna Sengupta</i>	117

AUTHOR INDEX