

International Journal of
**Recent Trends in
Engineering**

November 2009 Volume 2 Number 1

Issue on Computer Science – Full Papers

Copyright © 2009 by Academy Publisher
All rights reserved

This work is subject to copyright. All rights are reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without permission in writing from the publisher. Permission request should be addressed to: Academy Publisher, P.O. Box 40, FIN-90571, Oulu, Finland, Email: editorial@academypublisher.com.

The papers in this book published by the Academy Publisher, Post: P.O. Box 40, FIN-90571, Oulu, Finland, Email: general@academypublisher.com, Internet: <http://www.academypublisher.com/>, Phone: +358 (0)44 525 7800, Fax: +358 (0)207 81 8199. The book is made available on-line at <http://www.academypublisher.com/ijrte/>.

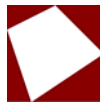
Opinions expressed in the papers are those of the author(s) and do not necessarily express the opinions of the editors or the Academy Publisher. The papers are published as presented and without change, in the interests of timely dissemination.

International Journal of Recent Trends in Engineering

(IJRTE, ISSN 1797-9617)

Additional copies may be ordered from:

Academy Publisher
P.O. Box 40, FIN-90571
Oulu, Finland,
Phone: +358 (0)44 525 7800
Fax: +358 (0)207 81 8199
Email: order@academypublisher.com



ACADEMY PUBLISHER
<http://www.academypublisher.com/>

Table of Contents

Editorial Board	v-vi
A Novel Classification via Clustering Method for Anomaly Based Network Intrusion Detection System <i>Mrutyunjaya Panda and Manas Ranjan Patra</i>	1-6
Performance Improvement in MANETs: A Cross Layer Approach via TCP <i>Jennifer S Raj, S. Smys and G. Josemin Bala</i>	7-11
Fuzzy Probist Reliability of a Communication Network Using Unified Fuzzy Markov Model <i>B. Praba, R. Sujath and V. Hilda Christy Gnanam</i>	12-16
A Wavelet Based Recognition System for Printed Malayalam Characters <i>M. Abdul Rahiman and M S Rajasree</i>	17-22
Monitor Dependent Intrusion Detection Technique For Mobile Ad Hoc Networks <i>Deepak Kumar Sharma, S. K. Saxena, Ajay Kaushik and Vijay Tiwari</i>	23-27
Identity Based Secure Routing For Wireless Ad-Hoc Networks <i>Deepak Kumar Sharma, S. K. Saxena, Yogesh Sharma and AjayTiwari</i>	28-32
An Enhanced Search Technique for Managing Partial Coverage and Free Riding in P2P Networks <i>Sabu M. Thampi and Chandra Sekaran K</i>	33-41
A Novel Parameterized QoS based Uplink and Downlink Scheduler for Bandwidth/Data Management over IEEE 802. 16d Network <i>Rashid Mahmood, Muhammad Imran Tariq and Malik Sikandar Hayat Khiyal</i>	42-46
Adaptive Neuro-Fuzzy Inference System based Fractal Image Compression <i>Y. Chakrapani and K. Soundararajan</i>	47-51
Design and Performance Evaluation of an Efficient Home Agent Reliability Protocol <i>Rathi S and Thanushkodi K</i>	52-57
Learning to Match XML Schemas – A Decision Tree based Approach <i>A. Rajesh and S. K. Srivatsa</i>	58-62
CINR and n-factor Dependent Fair Scheduling Algorithm for Mobile WiMAX <i>Kaarthick B, Nagarajan N, Raja Mohamed A and Saimethun G</i>	63-67
An Improved ID Based Entitled Verifier Cryptography for Grid Systems <i>Sindhuja . R, Varsha Parthasarathy and G. Sumathi</i>	68-72
Maximizing Profit in an Autonomic Computing System: A Fuzzy Control Approach <i>Harish Sheeranalli Venkatarama and Kandasamy Chandra Sekaran</i>	73-78
A Novel Approach for Password Strength Analysis through Support Vector Machine <i>Jamuna K S, Karpagavalli S and Vijaya M S</i>	79-82
EVISTA – Interactive Visual Clustering System <i>K. Thangavel and P. Alagambigai</i>	83-87
Cutting a Convex Polygon Out of a Circle <i>Syed Ishtiaque Ahmed, Masud Hasan and Md. Ariful Islam</i>	88-92
A Self-Optimized Multipath Routing Protocol for Wireless Sensor Networks <i>Kashif Saleem, Norshiela Faisal, Sharifah Hafizah, Sharifah Kamilah and Rozeha Rashid</i>	93-97
Resolution Enhancement of Holographic Imaging of Concealed Object Using Burg Method <i>Mujahid Fahmy Al-Azzo</i>	98-102
Rough Set based User Profiling for Web Personalization <i>H. Hannah Inbarani and K. Thangavel</i>	103-107
An Enhanced Face Recognition Technique based on Overlapped Modular PCA Approach for Cropped Log-polar Images <i>Tamojay Deb, Debotosh Bhattacharjee, Mita Nasipuri, Dipak Kumar Basu and Mahantapas Kundu</i>	108-112
Multilabel Classification by BCH Code and Random Forests <i>Abbas Kouzani and Gulisong Nasireding</i>	113-116

Energy Efficient Image Compression in Wireless Sensor Networks <i>S. A. Hussain, M. I. Razzak, A. A. Minhas, M. Sher and G. R Tahir</i>	117-120
MNV for Clustering based on Non Symmetric Symbolic Proximity <i>Bapu B Kiranagi, D S Guru, S Manjunath and B S Harish</i>	121-124
Ensemble based Distributed K-Harmonic Means Clustering <i>K. Thangave and N. Karthikeyani Visalakshi</i>	125-129
Enhancing Privacy of Confidential Data using K Anonymization <i>R. Vidya Banu, Divya Suzanne Thomas and N. Nagaveni</i>	130-133
Ontology based Correlation Analysis in Information Retrieval <i>Sridevi. U. K and Nagaveni. N</i>	134-137
A Fuzzy Based Priority Approach in Mobile Sensor Network Coverage <i>Bahareh J. Farahani, Hossein Ghaffarian and Mahmood Fathy</i>	138-143
DB Routing algorithm-A New Approach in Unicast Networks to speedup Data Transmission <i>S. Anuradha, G. Raghu Ram, K. E. Sreenivasa murthy, V. Raghunath Reddy and D. R. Srinivas</i>	144-149
On Demand Bandwidth Reservation for Real-Time Traffic in Cellular IP Network Using Evolutionary Techniques <i>Mohammad Anbar and Deo Prakash Vidyarthi</i>	150-156
Fuzzy clustering Approach in segmentation of T1-T2 brain MRI <i>S R Kannan, S Ramathilagam, R Pandiyarajan and A. Sathya</i>	157-160
A Temporal Mining Method for an Interval Encoded Temporal Database Prioritized Items with <i>C. Balasubramanian and K. Duraiswamy</i>	161-167
Efficient Method for Identifying Location and Removal of Data Redundancy for RFID Data <i>K Srinivas Rao and K R Chandran</i>	168-173
Reconstruction of 3D Plane using Min-Max Approach <i>Gaurav Gupta, Balasubramanian Raman and Rama Bhargava</i>	174-178
An Efficient Approach to Facial Feature Detection for Expression Recognition <i>S. P. Khandait, P. D. Khandait and R. C. Thool</i>	179-182
Texture Defect Detection Technique For MRI Knee Images <i>P. N. Jebarani Sargunar and R. Sukanesh</i>	183-187
An Efficient Adiabatic Circuit Design Approach for Low Power Applications <i>Satyam Mandavilli and Prashanth Paramahans</i>	188-190
Lossless Image Watermarking using Lifting Wavelet Transform <i>S. Kurshid Jinn and L. Ganesan</i>	191-195
Content Based Image Retrieval System for Texture Images with Relevance Feedback <i>Vijay kisanrao Sambhe and Archana R. Wasule</i>	196-198
Noise Removal Algorithm for Images Corrupted by Additive Gaussian Noise <i>Shyam Lal, Mahesh Chandra and Gopal Krishna Upadhyay</i>	199-206
Fast Handoff Mobile IP Protocol Using A Novel Route Optimization Technique <i>Sajal Saha, Asish K Mukhopadhyay and Suranjan Ghose</i>	207-211
Synthesis of Quantum Circuits Using Genetic Algorithm <i>Debarati Mukherjee, Amlan Chakrabarti and Debotosh Bhattacharjee</i>	212-216
Parallel Implementation of Centre Star Method in SMP Cluster for Multiple Sequence Alignment <i>Biswajit Sahoo, Atul Sandeliya and Sudharsan Padhy</i>	217-221
HACBPS: A Hierarchical Access Control-Based Proxy Signature <i>Debasis Giri, Jiban Dalal, P. D. Srivastava and Sanasam Ranbir Singh</i>	222-226
Author Index	227-228

Editorial Board

Editor-in-Chief

Dr. Vinu V Das (Chairman, ACEEE)

Managing Editors

Dr. Nikolaos Antonopoulos (University of Surrey, UK)
Dr. Uyen Trang Nguyen (York University, Canada)
Dr. Sumeet Dua (Louisiana Tech University, USA)

Associate Editors

Dr. Beno Benhabib (University of Toronto, Canada)
Dr. Natarajan Meghanathan (Jackson State University, USA)
Dr. Gylson Thomas (MES College of Engineering, India)
Dr. Hicham Elzabadiani (American University in Dubai)
Dr. Shahrokh Valaee (University of Toronto, Canada)

Editors

Dr. Shuvra Das (University of Detroit Mercy, USA)
Dr. Prafulla Kumar Behera (Utkal University, India)
Dr. Amit Banerjee (The Pennsylvania State University, USA)

Advisory Board

Dr. Pawel Hitczenko (Drexel University, USA)
Dr. Lisa Osadciw (Syracuse University, USA)
Dr. Jiguo Yu (Qufu Normal University, China)
Dr. Marc van Dongen (University College Cork, Ireland)
Dr. Hooman Mohseni (Northwestern University, USA)
Dr. Suresh Subramoniam (Prince Sultan University, Saudi Arabia)
Dr. A. Louise Perkins (University of Southern Mississippi, USA)
Dr. Sanjukta Bhowmick (The Pennsylvania State University, USA)
Dr. Sumanth Yenduri (The University of Southern Mississippi, USA)
Dr. Hamid Bagheri (Sharif University of Technology, Iran)
Dr. Mehran Garmehi (Bojnord University, IRAN)
Dr. Kabekode V. Bhat (The Pennsylvania State University, USA)
Dr. Mongan, William (Drexel University, USA)
Dr. Gordon Reynolds (Dublin Institute of Technology, Ireland)
Dr. Shashi Phoha (The Pennsylvania State University, USA)
Dr. Chilukuri K. Mohan (Syracuse University, USA)
Dr. Debopam Acharya (Georgia Southern University, USA)
Dr. David Hall (Louisiana Tech University, USA)
Dr. Cecilia Chan (University of Hong Kong, Hong Kong)
Dr. Kristian J. Hammond (Northwestern University, USA)
Dr. Long Que (Louisiana Tech University, USA)
Dr. Peter Vadasz (Northern Arizona University, USA)
Dr. Saurabh Chaudhury (IIT Kharagpur, India)
Dr. R.Kumar (SRM University, India)
Dr. Somanath Tripathy (IITM, Gwalior, India)
Dr. Virendra S Shekhawat (BITS, Pilani)
Dr. K B Raja (University Visvesvaraya College of Engineering, India)

Dr. Rakesh Tripathi (NIT Raipur, India)
Dr. D. Samanta (IIT Kharagpur, India)
Dr. K S Rao (IIT Kharagpur, India)
Dr. Karuensh K Gupta (BITS Pilani, India)
Dr. Amlan Chakrabarti (University of Calcutta, India)
Dr. Manas Ranjan Patra (Berhampur University, India)
Dr. Vijay Chaurasiya (IIT Allahabad, India)
Dr. Santosh Biswas (IIT Guwahati, India)
Dr. Roy P. Paily (IIT Guwahati, India)
Dr. D K Bhattacharyya (Tezpur University, India)
Dr. Sriparna Saha (Indian Statistical Institute, India)
Dr. Hemanta Kumar Kalita (TCS, India)
Dr. M Kumar (SIRT, Bhopal, India)