

2012 International Conference on Advances in Mobile Network, Communication and Its Applications

(MNCAPPS 2012)

**Bangalore, Karnataka, India
1 – 2 August 2012**



IEEE Catalog Number: CFP1207T-PRT
ISBN: 978-1-4673-1869-3

2012 International Conference on Advances in Mobile Network, Communication and Its Applications

MNCApps 2012

Table of Contents

Preface.....	viii
Program Committee and Reviewers.....	ix

Invited Paper

Energy Conservation in Wireless Communication Systems with Relays	1
<i>Aniruddha Chandra</i>	

Full Papers

A Novelistic Approach for Rapid Beam Forming in Smart Antennas for Wireless Applications Using Smart-Fractal Concepts and New Algorithm	5
<i>M. Levy, D. Sriram Kumar, Anh Dinh, and Sumanta Bose</i>	
Issues in Time and Frequency Synchronization in WCDMA System	11
<i>Mridula S. Korde and Abhay S. Gandhi</i>	
Overhead-Aware Composition of Parallel Components Using Lazy-Parallel Function Calls	17
<i>Soumya S. Chatterjee and R. Gururaj</i>	
Multi-intensity Analysis for Overlapping of Invariant Textures in Mobile Communications	23
<i>R. Bremananth</i>	
Optimal Designing Approach to Recursive Coding in VLSI Design	29
<i>C. Ashok Kumar, B.K. Madhavi, and K. Lal Kishore</i>	
Route Optimized Secured and Improved Encryption Protocol for Wireless Ad Hoc Network	34
<i>S.M.K.M. Abbas Ahmad, E.G. Rajan, and A. Govardhan</i>	
Administrator and Trust Based Secure Routing in MANET	39
<i>Arnab Banerjee, Dipayan Bose, Aniruddha Bhattacharyya, Himadri Nath Saha, and Debika Bhattacharyya</i>	

Use of Support Vector Machines through Linear-Polynomial (LP) Kernel for Speech Recognition	46
<i>Balwant A. Sonkamble and D.D. Doye</i>	
Shortest Path Routing for Co-ordinate Based Mobile Networks: A Genetic Algorithm Approach	50
<i>Rajarshi Poddar, Subarno Banerjee, and Parag Kumar Guha Thakurta</i>	
MIMO Capacity Analysis Using Novel Adaptive Semi Blind Estimation Scheme for Spatial Channel	54
<i>Ravi Kumar and Rajiv Saxena</i>	
Game Theory for Security in Cognitive Radio Networks	60
<i>Saed Alrabaee, Anjali Agarwal, Devesh Anand, and Mahmoud Khasawneh</i>	
A Study on Various Cryptographic Key Management and Distribution System in Secure Multicast Communications	64
<i>B.T. Geetha and M.V. Srinath</i>	
Short Papers	
Cooperative Machine Learning with Information Fusion for Dynamic Decision Making in Diagnostic Applications	70
<i>Deepak Vidhate and Parag Kulkarni</i>	
Improved Design for Slot Synchronization in WCDMA Cell Search	75
<i>Mridula S. Korde and Abhay S. Gandhi</i>	
Evaluation of DV Hop Localization Algorithm in Wireless Sensor Networks	79
<i>Anil A. Agashe, Amrita A. Agashe, and R.S. Patil</i>	
Intelligent Path Finder for Goal Directed Queries in Spatial Networks	83
<i>K.B. Priya Iyer and V. Shanthi</i>	
Efficient Patient Monitoring for Multiple Patients Using WSN	87
<i>Rajesh Kannan Megalingam, Divya M. Kaimal, and Maneesha V. Ramesh</i>	
A New Cluster Based Approach on Load Balancing Technique with Congestion Control Schema for Mobile Networks	91
<i>Subhajit Sadhu, Sushovan Maity, Vivek Agarwal, and Parag Kumar Guha Thakurta</i>	
Fuzzy Agent Based Quality of Service Multicast Routing in Mobile Ad Hoc Network	95
<i>V.R. Budyal, S.S. Manvi, and S.G. Hiremath</i>	
Discount Based Prediction for Business Systems	99
<i>Komal V. Kumawat and L.M.R.J. Lobo</i>	
Performance Enhancement in Distributed Sensor Localization Using Swarm Intelligence	103
<i>Maneesha V. Ramesh, Divya P.L., Rekha P., and Raghavendra V. Kulkarni</i>	
Low Power Intelligent Wearable Cardiac Sensor Using Discrete Wavelet Compression	107
<i>Maneesha V. Ramesh, Ragi G.R., and Abishek T.K.</i>	

Efficient Implementation of CBIR System and Framework of Fuzzy Semantics	111
<i>Sneha Chaudhari, Rakesh Chilveri, Aditi Nanda, and Rushikesh Borse</i>	
Impact of False RTT Estimation on TCP Performance over Wireless Links	115
<i>Purvang D. Dalal and Ridhdhi I. Satoniya</i>	
Two-Level Secure Re-routing (TSR) in Mobile Ad Hoc Networks	119
<i>Himadri Nath Saha, Debika Bhattacharyya, A.K. Bandhyopadhyay, and P.K. Banerjee</i>	
Design and Development of Quad-Band Antenna for Wireless Application	123
<i>Arumita Biswas and Vibha Rani Gupta</i>	
Multimodal Medical Image Fusion of MRI-PET Using Wavelet Transform	127
<i>Maruturi Haribabu, Ch. Hima Bindu, and K. Satya Prasad</i>	
Poster Papers	
Mobile Software Platform for Rural Health Enhancement	131
<i>Maneesha V. Ramesh, Sruthy Anand, and Rekha P.</i>	
Employing SVD and Wavelets for Digital Image Forensics and Tampering Detection	135
<i>Sarika Bhosale, Ganesh Thube, Pooja Jangam, and Rushikesh Borse</i>	
Implementation of Lifting Discrete Wavelet Transform for OWDM	139
<i>Rama D., Anitha. K., Dharmistan. K. Varugheese, and N.J.R. Muniraj</i>	
Comparative Study on Various Methods and Types of Mobile Payment System	143
<i>Basudeo Singh and Jasmine K.S.</i>	
Detection of Various Vehicles Using Wireless Seismic Sensor Network	149
<i>Navdeep Sharma, Anoop Kumar Jairath, Bhopendra Singh, and Ashutosh Gupta</i>	
Computer Forensic First Responder Tools	156
<i>A. Sankara Narayanan and M. Mohamed Ashik</i>	
Scenario Based Analysis of AODV and DSR Protocols Under Mobility in Wireless Sensor Networks	160
<i>Varsha Sahni, Pankaj Sharma, Jaspreet Kaur, and Sohajdeep Singh</i>	
A Note to Project Management Process Standard for BFS IT Industry	165
<i>K. Pooyamozhi, N. Keerthika, K. Alagarsamy, and K. Iyakutti</i>	
Author Index	172