

# **2014 IEEE Global Conference on Wireless Computing and Networking**

**(GCWCN 2014)**

**Lonavala, India  
22-24 December 2014**



**IEEE Catalog Number: CFP1476Z-POD  
ISBN: 978-1-4799-6299-0**

# 2014 IEEE Global Conference on Wireless Computing & Networking

## GCWCN- 2014

### Table of Contents

#### Volume - 1

<b>Preface - Volume 1</b> .....	<b>i</b>
<b>Committees – Volume 1</b> .....	<b>ii</b>
<b>Reviewers – Volume 1</b> .....	<b>vi</b>

#### **Technical Papers - Volume 1**

1. Evaluation of spectrum usage based on Peak Excursion, using an off the shelf spectrum analyzer..... 1-5  
Madakasira Kaushik; Pingali V Kalyan; Dipak Satpathi; Yeleswarapu Yoganandam
2. Eavesdropping and Interception SC Hole and Its solution over VoIP Service..... 6-10  
Aditya Dakur; Shruthi Dakur
3. Link Prediction-Based Topology Control and Adaptive Routing in Cognitive Radio Mobile Ad-Hoc Networks ..... 11-15  
Kanchan Hadawale; Sunita Barve
4. Hardware Implementation of DC-DC Converter for MPPT in PV Applications..... 16-20  
Dinesh Gaikwad; Mahesh Chavan; Manik Gaikwad
5. Evaluation of Relative Performance of Different Detection Methods for Spectrum Sensing in Cognitive Radio Networks Under Impulsive Noise..... 21-26  
Dipak Patil; Vijay Wadhai

6. Hybrid OCDMA System using Modified Double Weight Code (MDW) For Optical Access Network.....	27-30
.Arti Khaire; Rajendra Pagare	
7. Embedded On-Board Diagnostics System using CAN Network.....	31-35
Pallavi Burje; K. J. Karande; Amol B. Jagadale	
8. Design of Asymmetric CPW fed Slot Antennas for Pattern and Polarization Diversity.....	36-40
Ram Krishna; Neha Pazare; Raj Kumar; Kasyap Ramkrishnan	
9. Ant Colony Optimization for Random Network.....	41-46
Mamta Bannapure; Vinayak L. Patil	
10. On Progress of Communication Infrastructure for Fault Location and ABT Metering.....	47-50
Geeta Velhal; Avani Pujara; Shashikant Bakre; Muralidhara V.	
11. Design and Implementation of Artificial Magnetic Conductor Structure along with feed line for Microstrip Patch Antenna Array.....	51-55
Vaishali Ekke; Prasanna Zade	
12. Online Examination with Short Text Matching.....	56-60
Pooja Kudi; Tejashwini Dhatrak; Kavita Daware; Amitkumar Manekar	
13. Implementation Aspect of MIMO Decoder.....	61-64
.Vijaykumar Shirwal; Mahesh Chavan	
14. Performance evaluation of CBIR System based on Object detection and Evolutionary Computation.....	65-69
Chandrashekhar Patil; Mahesh Kolte; Devendra Chaudhari; Prashant Chatur	
15. Analysis and Integration of Skin Color Models used for Human Face Detection.....	70-74
Mrunmayee Daithankar; K.J. Karande	
16. 3-D Dataset for Human Activity Recognition in Video Surveillance.....	75-78
M.M. Sardeshmukh; Mahesh Kolte; Prashant Chatur; Devendra Chaudhari	
17. Gesture Recognition using Laser Sensor Enhanced with different Parameters.....	79-83
Rutuja Chauhan; Prajkta Bhamre	
18. Approach to Enhance 3D Object Retrieval System by Considering Various Characteristics.....	84-87
Farheen Shaikh; Vishakha Kharpate; Devyani Mahale; Apeksha Wadhwa	
19. Enhanced Visual Cryptography Scheme for Secret Image Retrieval using Average Filter.....	88-91
Vandana Pujari; Shivchandra Khot;Kishor Mane	

20. Technical Aspects in Development of Marathi Calculator using Text to Speech Synthesizer.....	92-96
Megha Gore; Mrs. Surwase S. V; K. J. Karande	
21. Expressive Speech Analysis for Story Telling Application.....	97-101
Prerna Patil; C. A. Manjare	
22. Filter bank Based Cepstral Features for Speaker Recognition.....	102-106
Sharada Chougule; Mahesh S. Chavan;Manik S Gaikwad	
23. Minimizing the print quality limitations during selection of Anilox Roll line frequency in flexographic half tone printing.....	107-111
Ramesh Dendge	
24. A Model based approach for fault diagnosis in converter of photovoltaic systems.....	112-115
Shamkumar Chavan; Mahesh Chavan	
25. Effective Image Enhancement using Hybrid Multi Resolution Image Fusion.....	116-120
Varsha Patil; Deepali Sale; Madhuri A. Joshi	
26. Removal of high frequency Noise from ECG Signal Using Digital IIR Butterworth Filter.....	121-124
Kausthubh Gaikwad; Mahesh Shrikant Chavan	
27. CIC filter and FFT implementation to improve power efficiency in Software Defined Radio.....	125-128
Rajendra Babar; Manik S Gaikwad; Dnyaneshwar S. Mantri	
28. Assessment of Cramer-Rao Lower Bounds of WLAN User Location Estimation.....	129-132
Udaykumar Naik; Vishram Bapat	
29. NFC Based Health Monitoring And Controlling System.....	133-137
Vishal Patil; Nikhil Varma; Shantanu Vinchurkar; Bhushan Patil	
30. Performance Evaluation of OLSR Protocol in MANET under the influence of Routing attack.....	138-143
Vaishali Desai; Narendra Shekokar	
31. Review on Improving Data Dissemination and Integrity in Delay Tolerant Mobile Network.....	144-147
Mohini Takhbhore	
32. Improve the SC of CGA using Adjustable Key Block Cipher based AES, to Prevent Attack on AES in IPV6 over MANET.....	148-152
Kavita T. Patil; Manoj Patil	
33. Multiple Mobile nodes for Efficient Data Collection from Clusters in Wireless Sensor Network.....	153-156
Suraj Borge; Mayura Kinikar	

34. Growth Rate of Cached Data Items at Clients in Mobile Ad Hoc Networks.....	157-159
Devendra Jain; Sanjay Sharma	
35. TLC: Trust point Load Balancing Method using Coalitional Game Theory for Message Forwarding in VANET.....	160-164
Nikhil Kapade	
36. Efficient time based scheduler for implementing reservation plan in cloud.....	165-168
Rini Michael	
37. Rolling Curve ECC for Centralized Key Management System used in ECC-MPICH2.....	169-173
Shridhar Shivaramakrishnan; Sachin Babar	
38. Vulnerabilities in Android OS and SC of Android Devices.....	174-178
Praful Meshram; Dr. R.C. Thool	
39. RCS-Blocking abusive users in Anonymizing Networks .....	179-183
Snehal Pise; Ratnaraj Kumar	
40. Mathematical Model for Routing Protocol Performance in NS2: Comparing DSR, AODV and DSDV as Example.....	184-188
Ganesh Pathak; Suhas H. Patil; Amar Rana; Yogendra N. Surlakar	
41. High capacity and robust speech data hiding in colour images.....	189-193
Sheetal Kulkarni; Shubhangi B. Patil	
42. Area and Power Analysis of AES using Hardware Software codesign.....	194-198
Vilas Deotare; Ashok Wakode; Dinesh Padole	
43. Detecting of Targeted Malicious Email.....	199-202
Priyanka Deshmukh; Megha Shelar;Nikhil Kulkarni	
44. LRXE: Lite-RSA for XML Encryption Suitable for Computational Constraint Devices.....	203-207
Anupkumar Bongale; Nithin N; Nirmala R	
45. Genetic Algorithm Secure Procedures Algorithm to Manage Data Integrity Of Test Case Prioritization Methodology.....	208-212
Surendra Mahajan; Shashank Dattatraya Joshi; V Khanaa	
46. A Secured Key Issuing Protocol for Peer-To-Peer Network.....	213-218
Nirmala Jagadale; Thaksen Parvat	
47. Bayesian Network Based Trust Model with Time Window for Pure P2P Computing Systems.....	219-223
Jigyasu Dubey; Vrinda Tokekar	
48. Performance Improvement of Deep Packet Inspection for Intrusion Detection...	224-228
Thaksen Parvat; Pravin Chandra	
49. Miniature Wideband 1x2 Micro-strip Antenna for 4G Application.....	229-233
.Jayendra Kumar; Siddharth Shirgan; Deepak Patil	

50. Throughput Aware ACO Based Routing Protocol for Wireless Sensor Network.....	234-238
Rashmi Mahale; Shankar Chavan	
51. Transmit Antenna Selection in MIMO for Image Transmission with MRC in Rician Fading Channel.....	239-243
Vaibhav Hendre; Murugan Mahalingam; Sneha Kamthe	
52. Minimization of Average Energy Consumption to Prolong Lifetime of Wireless Sensor Network.....	244-248
Abhishek Chunawale; Sumedha Sirsakar	
53. H-MOHRA: Heterogeneous Multi-Objective Hybrid Routing Algorithm for Mobile Wireless Sensor Networks.....	249-253
Nandkumar Kulkarni; Neeli Rashmi Prasad; Ramjee Prasad	
54. Watermarking of Compressed Images Using SWT Technique and Fragile Approach.....	254-257
Mohmmad Saiyyad; Nitin Patil	
55. Designing an Automation Framework to Improve The Performance of SIP Based Test Suites in PBX Feature Testing.....	258-262
Manoranjitham R	
56. Synchronized Data Aggregation for Wireless Sensor Network.....	263-267
Dnyaneshwar Mantri; Neeli Rashmi Prasad; Ramjee Prasad	
57. Spectral efficiency enhancement through Wavelet Transform (WT) for 5G.....	268-272
Anand Labade ;Ganesh Lohar; Prashant Dike; Nishant Pachpor	
58. Mobility Aware Health Care Monitoring System.....	273-277
Kavita Patil; Dnyanesh Mantri	
59. Place Time Capacity- A Novel Concept for Defining Challenges in 5G Networks and Beyond in India.....	278-282
Ambuj Kumar; Purnima Lala Mehta; Ramjee Prasad	
60. Weightage Based Trusted QoS Protocol in Mobile Adhoc Networks.....	283-287
Nageswararao Sirisala; C Shoba Bindhu	
61. Resource Allocation Management.....	288-291
Sulakshana Patil; Vijaya Rajeshwarkar; Vaishali Velhal; Pravin Latne	
Author Index – Volume -1.....	292