

2015 National Conference on Recent Advances in Electronics & Computer Engineering (RAECE 2015)

**Roorkee, India
13-15 February 2015**



**IEEE Catalog Number: CFP15F94-POD
ISBN: 978-1-5090-2177-2**

**Copyright © 2015 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP15F94-POD
ISBN (Print-On-Demand):	978-1-5090-2177-2
ISBN (Online):	978-1-5090-2146-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Conference Committee	iii-iv
Message from Convener	v-vi
Technical Programs	vii-xv
Table of Content	xvi-xix
Design of FPGA based Scan Generator and Image Grabbing System for Scanning Electron Microscope Saini Ravindra , Chaudhari Y.V, Pal Suvadip	1-5
Automatic Breast Cancer Analysis using Bandelet Transform Prathibha G. , Chandra Mohan B.	6-10
Image Fusion of Natural, Satellite, and Medical Images using Undecimated Discrete Wavelet Transform and Contrast Visibility Tirupal T. , Chandra B. , Kumar S. Srinivas	11-16
Steganography based Information Security with High Embedding Capacity SirishaB .Laxmi , Kumar S. Srinivas, Chandra Mohan B.	17-21
Non Iterative LDPC Decoding By Syndrome Generation Using Artificial Neural Network Kumar Dinesh , Agrawal Alkesh , Parthiyal Gopal Singh	22-25
Advanced Multi-Tasking AGROBOT: A friend of Farmer's ShrivastavaPrasun , Singh Akash , Singh P. Kushagra , Srivastava Amritanshu	26-31
Evaluation of Energy Consumption by Nodes of MANET KandariSonika, Pandey M.K.	32-35
Edge Detection in Noisy Images Using Wavelet Transform P. Vikas , M. Sri Lakshmi , M. Sampath Rajkumar , P.M.K. Prasad	36-39
Node Placement in Wireless Sensor Network: An Energy Approach Y. Bendigeri Kiran kumar , D. MallapurJayashree	40-45
Analysis of Fault Strategies in Wireless Sensor Networks Bendigeri Kiran kumar Y. , MallapurJayashree D.	46-51
Soil Moisture Estimation With Palsar Data Near Roorkee Region PatriUpender	52-58
Location Privacy Protection for Secure Multicasting in MANET Saravanan TR , Sakthivel P	59-64
Adder Circuit Design using Advanced Quantum Dot Cellular Automata (AQCA) Chawla Rashmi , Kumar Prashant , Yadav Priya	65-69
Analysis of Video Analytic Architectures Purohit Manoj , Kaushik B. K. , Singh Manvendra , Kumar Ajay	70-74

Parametric Analysis of Frequency Selective Surfaces Over Radar Absorbing Nanocrystalline Structures	75-79
Singh Arunima , Puthucheri Smitha , Singh Dharmendra , Agarwala Vijaya	
On Screen Randomized Blank Keyboard	80-84
Neenu N A	
An Alternative Approach for Wall Parameters Estimation in Through Wall Imaging System	85-91
Kaushal Sandeep, Singh Dharmendra	
Remote WSN: A Novel Technique for Remotely Visualizing Connectivity in WSN Working on a Weight Based Routing Algorithm	92-95
Bokde Neeraj D. , Gupta Aditya , Peshwe Paritosh D. , Kulat K. D.	
Detection of Web Application Vulnerability Based on RUP Model	96-100
Gol Deven , Shah Nisha	
Study of Background Subtraction for Ground Penetrating Radar	101-105
Sharma Prabhat , Singh D., Gaba S. P.	
Quantification of Land Transformation Using Multi Temporal Satellite Data and GIS Techniques	106-111
Kumar Virendra , Shukla Anugya , Bhalvai Kamlesh	
Performance Analysis of MRC Combiner Output Signal in Log Normal Shadowed Fading	112-115
Singh Rupendra , Soni S. K.	
Fractal Frequency Selective Surface Embedded Broadband Microwave Absorber using Disassembled Waste Printed Circuit Boards	116-119
Panwar Ravi , Puthucheri Smitha , Singh Dharmendra	
Electromagnetic Analysis of a Coaxial Metal Disc Loaded Waveguiding Structure	120-123
Dixit Gargi, Jain P. K.	
Dynaldroid: A System for Automated Dynamic Analysis of Android Applications	124-129
Reddy K. P. , Babu Rajesh V , Patil Mahesh U. , Pareek Himanshu	
Performance Analysis of Various Distance Measures for PCA based Face Recognition	130-133
A Vinay , N Manjunath , Nayak Anmol , N.R. Prathiksha	
Electromagnetic Wave Absorption Properties of Conducting Polymer-Spinel Ferrite Composites	134-137
Pakhale Swapnil , Puthucheri Smitha , Singh Dharmendra , Yadav K. L.	
Realization of Circularly Polarized Microstrip Antenna using Fractal	138-142
M. Shrinivasulu, Prajapati R. Pravin , M.V. Kartikeyan	
Selection of Critical Segmentation-A Prerequisite for Object based Image Classification	143-148
Srivastava Mohit , Arora Manoj K. , Raman Balasubramanian	
Miniaturization of Microstrip Antennas using Defected Ground Plane	149-153
Jain Satish K. , Shrivastava Gautam	
Spectral Discrimination using Neural Network for Target Detection	154-159
Yadav Deepti , Arora Manoj K. , Tiwari K. C. , Ghosh J. K.	
Solid Compression Strategy for BTRFS Snapshot	160-164
Jose Justin , K V Manoj Kumar	
Universal Filter Design using Transconductance CMOS Inverter based CCII+	165-169
Mainarey Abhishek , D.S Ajnar , Jain P.K. , Singh Shrasti	
Size Reduction of Stacked Patch Antenna Using Neural Network Based Swarm Optimizer	170-175
Jain Satish K.	

Classification of Polarimetric Radar Data with Texture Measure	176-179
Gupta Divya , Tripathi Swati , Rana Shefai , Prakash Rishi	
Classification of PALSAR Data Utilizing Class Separability Index	180-182
Shivang G. , Patel R singh , Srivastava U., Prakash R.	
Design and Simulation of MEMS Cantilever Based Energy Harvester-Power Source for Piping Health Monitoring System	
Balpande Suresh S. , Paande Rajash S.	183-188
Beam-Wave Interaction Study of a Second Harmonic Gyrokystron Amplifier	189-191
Swati M. V. , Chauhan M. S. , Jain P. K.	
Development of FSS Printed on Multi-layered Iron-Zinc Oxide Composite Coatings for Microwave Absorption	192-195
Najim M , Smitha P , Agarwala V , Singh D	
Unipolar Organic Ring Oscillator Using Dual Gate Organic Thin Film Transistor	196-201
Saini Deepa , Kaushil Bhajesh Kumar	
Beam Wave Interaction Studies of GridlessReltron	202-206
MahtoManpuran , Jain P K	
Critical Analysis of Frequency Selective Surfaces for Dual Band GSM-900 & 1800 MHz Transmission	207-210
Singh Jaydeep, Najim M, Agarwala V, Singh D , Varma G D	
A Machine Learning Algorithm for Interference Removal from a Signal	211-215
Varma Shubham	
Through-the Wall Imaging (TWI) Radar for Detection,Classification and Identification of Targets based on RCS	216-221
Chauhan Prashant Pratap Singh, Singh Dharmendra	
Sputtered Silicon Dioxide Layers for MEMS Applications	222-227
Rao K. Trishankara, Chauhan Sandeep Singh, Manhas S. K.	
Study of Metal-CNT Contact for Gas Sensing Applications	228-233
Kumar Narendra, Baghel Ashish Singh, Choyal Prameshwar, Manhas S K	
Design of DRAM having Dummy Cell Sensing Structure	234-236
Ojha Sunil Kumar, Singh O P, Mishra G R, Vaya P R	
Tri-Band Printed MIMO Antenna Working on 1.7, 2.7 and 3.7 GHz	237-239
Purwar Aditi , Malik Jagganath , Kartikeyan M V	
Time-Dependent Nonlinear Analysis of Gyro-TWT Amplifier	240-243
Arora Amit, Thottappan M , Jain P K	
Fusion of Color Histograms using PCA for SAR Data Classification	244-247
Gupta Shruti, Singh Dharmendra, Kumar Sandeep	
An Approach to Use Polarimetric Signature for Land Cover Classification	248-253
Maurya Ajay Kumar, Ahmed Tasneem, Singh Dharmendra, Balasubramanian Raman	
Effect of Magneto-Dielectric Nanocomposite on the SAR Value of Phantom Model	254-257
Mishra Varsha, Puthucheri Smitha, Agarwala Vijaya, Singh Dharmendra	
Non-invasive Concealed Weapon Detection and Identification using V Band Millimeter Wave Imaging Radar System	258-262
Agarwal Smriti, kumarBambam, Singh Dharmendra	

A Comparison of Wavelet Based Techniques for Resolution Enhancement of Moderate Resolution Satellite Images	263-266
Naidu Shashi Vardhan, kumar Bambam, Hussein Yahia, Singh Dharmendra	
An Approach to Detect Hotspots with INSAT-3D Data	267-270
Ahmed Tasneem, Naidu Vardhan, Singh Dharmendra	
Application to Use SARAL Altimetry for Water Level Monitoring Over Ramganga Reservoir and Its Correlation with MODIS	271-275
Ahmed Tasneem , Singh Dharmendra, Tyagi Kumar Ujjwal, Balasubramanian Raman	
Soil Moisture Retrieval of Vegetated Land Cover Using RADARSAT-2 Data	276-281
Kumar Vinay, Ahmed Tasneem, Singh Dharmendra	
Coupled Stepped-Impedance Resonator Based Dual-Band Adaptable Bandpass Filter with Tunable Lower Band Central Frequency and Bandwidth	282-285
Kumar Amarjit, Pathak Nagendra Prasad	
A Compact Half-Wave Folded Waveguide Resonator for Dual-Band Applications	286-289
L Snehalatha, Pathak Nagendra Prasad, Manhas Sanjeev	
Recent Trends in Coating of Biomaterials With Emphasis on Microwave Technology: Review	290-295
Gupta Ruchi, Singh Vinay Pratap	
Overview of the Performance of Fast ICA and DUET for Blind Source Separation of Multiple Speakers	296-300
Singh Amber, Anand R.S.	
ECG Signal Decomposition Using PCA and ICA	301-305
Kanaujia Mayank , Srivastava Geetika	
Computational Scalability with Apache Flume and Mahout for Large Scale Round the Clock Analysis of Sensor Network Data	306-311
Makeshwar P.B., Kalra A, Rajput N.S. , Singh K.P	
Enhanced Activity based Motion Estimation Scheme for Scalable Video Coding	312-317
Singh Yogeshwar , Ghosh Debashis	
Decision Tree Approach to Classify the Fully Polarimetric RADARSAT-2 Data	318-323
Jain Ankita , Singh Dharmendra	
A Study of PDF Based Approach to Classify Full Polarimetric Radar Data	324-327
Mittal Vikas, Saini L.M., Singh Dharmendra	
Comparative Analysis of Neural Network and Genetic Programming For Number of Software Faults Prediction	328-332
Rathore Santosh Singh, Kumar Sandeep	
Author Index	333-334