3rd International Conference on Communication Systems (ICCS-2017)

IOP Conference Series: Materials Science and Engineering Volume 331

Rajasthan, India 14 - 16 October 2017

Editors:

Santosh Jangid S.K. Rai Manoj Pandey Shridhar B. Dandin L. Solanki

P.S. Bhatnagar

ISBN: 978-1-5108-6065-0

ISSN: 1757-8981

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by the Institute of Physics All rights reserved. The material featured in this book is subject to IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the Institute of Physics at the address below.

Institute of Physics Dirac House, Temple Back Bristol BS1 6BE UK

Phone: 44 1 17 929 7481 Fax: 44 1 17 920 0979

techtracking@iop.org

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

Email: curran@proceedings.com Web: www.proceedings.com

Table of contents

Volume 331

3rd International Conference on Communication Systems (ICCS-2017)

14-16 October 2017, Rajasthan, India

Accepted papers received: 5 March 2018

Published online: 29 March 2018

Preface

3rd International Conference on Communication Systems (ICCS-2017)

Peer review statement

Papers

A 2×1 Coplanar Monopole Antenna Structure for Wireless RF Energy Harvesting

Monika Mathur, Ankit Agarwal, Ghanshyam Singh and S.K. Bhatnagar....1

A Comparative Analysis of Digital and Passive Filters for IFOC based Induction Motor Drive (EV) fed through ZSI

Tarun Bedi, Dave Heema and Dheerendra Singh.....6

An exploration of neuromorphic systems and related design issues/challenges in dark silicon era

Mudit Chandaliya, Nitin Chaturvedi and S Gurunarayanan....12

Applications of Electrical Impedance Tomography (EIT): A Short Review

Tushar Kanti Bera....19

Bioelectrical Impedance and The Fre	equency De	ependent	Current	Conduction	Through
Biological Tissues: A Short Review					

Tushar Kanti Bera.....27

<u>ComVisMD - compact visualization of multidimensional data: experimenting with cricket players data</u>

Shridhar B Dandin and Mireille Ducassé.....36

Degree of Approximation by a General C_{λ} -Summability Method

S Sonker and A Munjal....42

Design and Fabrication of Multi Quantum well based GaN/InGaN Blue LED

K Meel, P. Mahala and S Singh.....48

Design and Implementation of Viterbi Decoder Using VHDL

Akash Thakur and Manju K Chattopadhyay.....53

Design of Efficient Mirror Adder in Quantum- Dot Cellular Automata

Prashant Kumar Mishra and Manju K. Chattopadhyay.....59

Door Security using Face Detection and Raspberry Pi

Venkatesh Bhutra, Harshav Kumar, Santosh Jangid and L Solanki.....67

Excitation of Higher Order Modes of Cylindrical Dielectric Resonator Antenna using Dual-slot feed

A K Ojha and A.V. Praveen Kumar.....74

Facial Emotions	Recognition	using Gab	or Transform	and Facial	Animation	Parameters
with Neural Net	works					

Aditya Harit, J. C. Joshi Col and K. K. Gupta.....80

Generation of high power sub millimeter radiation using free electron laser

J Panwar, S C Sharma, P Malik, M Yadav and R Sharma.....85

<u>Implementation of Smart Metering based on Internet of Things</u>

Milanpreet Kaur, Lini Mathew Dr., Alokdeep and Ajay Kumar....90

Improvement in reverse bias leakage current of Ni/4H-nSiC Schottky barrier diodes via MeV selective ion irradiation

Vibhor Kumar and A S Maan....101

Innovation as Road Safety Felicitator

S Sahoo, A Mitra, J Kumar and B Sahoo.....105

<u>Multiple Solutions for Reconfiguration to Address Partial Shading Losses in Solar Photovoltaic Arrays</u>

Nikesh Sharma, Smita Pareek, Nitin Chaturvedi and Ratna Dahiya.....110

Noise Estimation and Quality Assessment of Gaussian Noise Corrupted Images

V M Kamble and K Bhurchandi.....126

Nonlinear Motion Tracking by Deep Learning Architecture

Arnav Verma, Devesh Samaiya and Karunesh K. Gupta.....136

Numerical analysis of THz radiation wave using upper hybrid wave wiggler
Pratibha Malik, Suresh C. Sharma, Jyotsna Panwar and Rinku Sharma144
Offset fed slot antenna for broadband operation
K Ritish, S Piyush and A V Praveen Kumar148
Optimal placement of FACTS devices using optimization techniques: A review
Dipesh Gaur and Lini Mathew154
Optimized Latching Control of Floating Point Absorber Wave Energy Converter
Chaitanya Gadodia, Shubham Shandilya and Hari Om Bansal169
Performance Analysis of Three-Phase Induction Motor with AC Direct and VFD
Dinesh Kumar177
Probe-fed semi circular microstrip antenna vis-à-vis circular microstrip antenna: a necessary revisit
S K Ghosh, S K Varshney, S Chakraborty, L L K Singh and S Chattopadhyay187
Real Time Assessment of Potable Water Quality in Distribution Network based on Low Cost Multi-Sensor Array
Jyotirmoy Bhardwaj, Karunesh K Gupta and Punit Khatri194

Real-Time-Simulation of IEEE-5-Bus Network on OPAL-RT-OP4510 Simulator

Anjali Atul Bhandakkar and Lini Mathew Dr.....199

Rectangular microstrip antenna with corrugation like defects at radiating edge: A new approach to reduce cross polarization radiation

U A Pawar, D Mondal, A Nagaraju, S Chakraborty, L L K Singh and S Chattopadhyay.....212

RF MEMS Based Tunable Bandpass Filter For X-Band Applications

Mahesh Kumar Chaubey and Avanish Bhadauria.....218

Simulating 1.30 µm Optical Gain in Type-I InGaAsN/GaAs Nano-Heterostructure

Garima Bhardwaj, K. Sandhya, Pyare Lal and P. A. Alvi.....226

<u>Various Indices for Diagnosis of Air-gap Eccentricity Fault in Induction Motor-A</u> Review

Nikhil, Lini Mathew Dr. and Amandeep Sharma.....230