2018 Fifteenth International Conference on Wireless and Optical Communications Networks (WOCN 2018)

Kolkata, India 2-4 February 2018



IEEE Catalog Number: ISBN: CFP18604-POD 978-1-5386-4800-1

Copyright © 2018 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 is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	
ISBN (Print-On-Demand):	
ISBN (Online):	
ISSN:	

CFP18604-POD 978-1-5386-4800-1 978-1-5386-4799-8 1811-3923

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



Session 1: Optical Passive and Active Component Sand Devices OPA and Optical Communications and Networking OCN

Session Chair:

Phase Noise Estimation and Compensation in 100G 4-QAM CO-OFDM system using Radial Basis Function Network 1 by *Syed Tajammul Ahmad, Pradeep Kumar K.*

Development of Architecture for Secured Data Transmission in OCDMA System with Designed Modified Walsh Code 5 by *Madhumita Sarkar, Somali Sikder*, and Shila Ghosh

Quantum Well Laser-Based Optical Bistable Switching Device 9 by *Yajie Li, Pengfei Wang, Huolei Wang, Hongyan Yu, Xuliang Zhou, Weixi Chen, Jiaoqin Pan*

Computation of Skin Depth for MIM Surface Plasmon Structure at Higher Frequency 12 by *Arpan Deyasi, Pratibha Verma*

On-chip Photonic Temperature Sensor Using Micro Ring Resonator 16 by Satyabrata Singha, Bishanka Brata Bhowmik

Analysis of Illumination Properties of LED Sources used in Li-fi Communication 20

by Semanti Chakraborty, Tanusree Das, Rahul Dutta, Subhankar Sen, Irin Shabnam, Kanik Palodhi

Quantum Well Laser Diodes With slightly-doped Tunnel Junction 24 by *Huolei Wang, Yajie Li, Hongyan Yu, Xuliang Zhou, Weixi Chen, Jiaoqing Pan, Ying Ding, Weixi Chen*

Session 2: Application of Information and Communication AICT

Session Chair:

Study on Active Filter Based on Memristor and Memcapacitor 28 by *Nijing YANG, Chenyu YANG, Yongbin YU, Xiang LU, Lin Wang, Tashi Nyima*

Co-extraction of Opinion Targets and Opinion Words from Online Reviews Based on Opinion and Semantic Relations 32 by *Savitha Mathapati Shreelekha B S Tanuja R S H Manjula and Venugopal K R*

Mini-session 3: Simulations, Modelling, and Analysis and Performance Evaluation SMAP

Session Chair:

A Compact Printed UWB MIMO Monopole Antenna with Modified Complementary Fractal for Isolation Improvement and Triple Band Notch Characteristics 38 by *Jeet Banerjee, Anirban Karmakar, Rowdra Ghatak*

Mini-session 4: Cloud Computing CC

Session Chair:

Forward Secrecy in Authentic and Anonymous Cloud with Time Optimization 43 by *Muthi Reddy P, Rekha Rangappa Dasar, Tanuja R, S. H. Manjula, Venugopal K. R.*

Mini-session 5: WLAN and Mobile WIMAX 3, 4, 5G Systems

Session Chair:

Reduction Scheme of SS for D2D Relay-Path Selection to Achieve Guaranteed Throughput for 5G Systems 48

by Bingxuan Zhao, Koichiro Kitagawa, Takashi Fujimoto, Katsuo Yunoki, Ryochi Kataoka, Hiroyuki Shinbo



Session Chair:

Improvement of Performance of MIMO System using Different Protocols 54 by *Aritra De, Tirthankar Datta*

Some Aspects of Massive MIMO Spectrum Sharing 59 by *Aritra De, Tirthankar Datta*

Mini-session 7: Internet of Things IOT

Session Chair:

A QoS-aware MAC protocol for IEEE 802.11ah-based Internet of Things 64 by *Nurzaman Ahmed, Debashis De, Md. Iftekhar Hussain*

End of Program