

Call For Papers

Fifteenth International Conference on Wireless and Optical Communications Networks

Next Generation Internet WOCN 2018 WWW.WOCN2018.ORG

2nd , 3rd and 4th of February 2018 Kolkata, West Bengal INDIA

The Fifteenth IEEE and IFIP International Conference on Wireless and Optical Communications Networks WOCN2018 invites high-quality recent research results in the areas of Mobile and Wireless Communications, optical communications and networking, architectures, protocols, planning and design, management and operation and Information and communications Technologies and recent research activities of Internet-of-Things IOT, Big Data, Smart Grid, impact of 5G on rural communications and Green Communications. The main goal of this annual conference is to bring together scientists and engineers who work in these fields from different geographical locations. The Fifteenth IEEE and IFIP International Conference will be held during 2nd , 3rd , and 4th of February 2018, Kolkata, West Bengal, INDIA. WOCN2018 is the Fifteenth conference in its series aimed at stimulating technical exchange in the emerging and important field of Optical, mobile and wireless communications and networks. WOCN2018 seeks to address and capture highly innovative and state of the art research and work in the wireless and Optical research and industries. The scope of the conference includes a wide range of technical challenges in view of the growing interest for wireless access to Internet and the evolution of fourth and fifth generation wireless and cellular systems included ITU IMT/UMTS activities. The conference also accepts progress on IST European Commission funded research projects. The Authors can present their finding on wireless quality of service, resource management, Ad Hoc and sensor networks. Radio interface design, adaptive antennas and arrays and indoor propagation, measurement and predictions also will be considered. A growing number of digital devices inside homes and the application of Ultra Wide Band (UWB), as well as Spectrum efficiency and low power consumption including low cost and secure wireless personal access are some of the areas to be considered in this conference.

WOCN2018 is seeking papers in the area: **Photonic devices and integration, Optoelectronic integration including devices and materials, Optical networks and transmission systems, Novel fibers and fiber-based devices, Transmission systems and networks, Photonics sensors and sensor networks, Microwave photonics and optical signal processing.** Optical communications networks are becoming increasingly important as the demand for high capacity links are required. Dense wavelength division multiplexing (DWDM) is widely deployed at the core networks to accommodate high capacity transport systems. Optical components, such as optical amplifier, tunable filters, transceivers, termination devices and add-drop Multi-Plexers are becoming more affordable and reliable. Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges. New components and subsystems for high-speed optical networks offer new design options. The objective of this event is therefore to foster the exchange of information among researchers in this fast-moving field. The authors can present their finding on new Fibers, optical fiber gratings and devices, optical amplifiers, optical sensing and medical application of fiber optics and Optoelectronics, Nano-photonics, Bio-photonics and microwave over optics. **WOCN2018 is technically sponsored by IEEE Photonics Society.** **WOCN2018 conference is organized by RCC Institute of Information Technology, West Bengal and in association with Maulana Abul Kalam Azad University of Technology, West Babel, INDIA.** WOCN2018 conference is supported by IFIPTC6 WG6.8 (Mobile and Wireless Communications), WG6.6 (Management of Networks and Distributed Systems), WG6.10 (Photonic Networking) and universities and institutions in India. WOCN2018 is technically co-sponsored by RCC Institute of Information Technology, West Bengal and in association with Maulana Abul Kalam Azad University of Technology. It is supported by Sri Aurobindo Institute of Technology, Indore, and Indian Institute of Technology, Indore, Madhya Pradesh, and in association with Computer Society of India Division IV.



Paper Submission Deadline:

Full Paper Submission Date
deadline:

November, 20, 2017

Notification of

Acceptance Date:

December, 15, 2017

Camera ready paper

Submission Date:

December, 20, 2017



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MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
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Information for Contributors



Contributions are invited on all topics concerning wireless and optical communications networks and components. We are soliciting original papers describing the state-of-the-art research and development in the areas of wireless and Optical Communication and Networks, including, but not limited to the following topics:

1. Optical Networking Technologies

Optical network planning, design and modelling
Optical access/metro networks
IP over optical networks
Network protection/restoration
Generalised multi-protocol label switching (GMPLS)
Planning and design tools for optical networks
QoS issues in optical networks
Routing and wavelength assignment
Multiple access technique and fairness control in optical LANs and MANs

2. Optical Switching and Network Elements

Photonic switching system architectures
Optical cross-connects and add-drop multiplexers
Optical IP routers
Photonic packet switching
Network signalling and monitoring techniques
Optical signal processing
Wavelength conversion techniques

3. Optical Transmission Technologies

WDM Ultra-long haul transmission systems
OTDM transmission systems
Soliton transmission systems
Transmission system experiments
Radio over fibre-optics
Optical interconnections
Optical interfaces and terminals

4. Optical Passive Components

Fiber-Bragg-grating-based devices
Fiber-grating dispersion compensators
Optical circulators and isolators
Optical waveguide-based devices
Fiber and waveguide filters
Microstructured waveguides and devices
Arrayed waveguide devices
Optical splitting and directional couplers

5. Optical Active Components and Modules

Optical modulators and switches
Semiconductor optical amplifiers
Semiconductor lasers and detectors
Fibre amplifiers and lasers
Raman and Brillouin amplifiers
Automatic gain control of optical amplifiers
Optical MEMS
Photonic integrated circuits/modules
Optical tunable filters
Optical logics and memories

Mobile and Wireless Communications topics of interest include but are not limited to the following:

1. Management

Resource and Information Management
Pricing and Billing Issues

2. Architecture

Convergence of Fixed and Mobile
Hybrid Communications System

3. Devices

Low-Power End-Devices and Wireless
Communications

4. Security

Security in Mobile and Wireless Networks

5. QoS

Adaptive Quality of Service Provisioning
End-to-end Quality of Service

6. Mobility Support

Handoff Algorithms
IP and Mobility
Mobility and Connection Management in
Heterogeneous Wireless Networks
Policy-based Mobility Management

7. Applications

Personal Communications
Location and Context Management
Smart Media
Mobile Code
Mobile Ad-Hoc Networks Applications

8. Access

Wireless IP
Wireless Multimedia Services
Wireless Local Loop (WLL)
Multiple Access Technology
Broadband Wireless Access

9. Networking

Wireless Personal Area Networks
Wireless Local Area Networks
Mobility and Nomadic Computing
Analysis and Simulation of Mobile
Network Protocols
Home Networking
Mobile Ad-hoc Networks and the Internet
Mobile Ad-Hoc Networking Routing
Satellite Networks

10. INTERNET

Access and broadband technologies
Agent technologies, Distributed games
Hypertext and hypermedia
Multimedia on the Web
Audio/video/voice coding for Internet service
Internet security , Multicast
Virtual private networks
Web navigation strategies , Quality of service
Scalability aspects , Traffic characterization

Details found at:
www.WOCN2018.ORG

Important Conference dates

Full Paper Submission Date deadline:

November, 20, 2017

Notification of Acceptance Date:

December, 15, 2017

Final Paper, camera ready paper

Submission Date: December, 20, 2017

**Date of the conference 2nd, 3rd and 4th
of FEB 2018**

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Authors are requested to submit electronically a PDF file paper(s) only to the following link: <http://www.omidyar-institute.org/iopenconf311b/openconf.php> Papers should be written in English and should preferably follow the instructions in Templates http://www.ieee.org/conferences_events/conferences/publishing/templates.html

WOCN 2018 conference is technically Co-Sponsored by IEEE.

Accepted papers will be submitted for inclusion in Engineering Index (EI) and EI Compendex and IEEE Xplore™

Accepted papers will be submitted for inclusion in Engineering Index (EI) and EI Compendex and IEEE Xplore™ Accepted papers will be published in the conference's proceedings and/or CD-ROMs. The following ISBN numbers from IEEE are assigned to accepted papers:

XPLORE COMPLIANT: CFP18604-ART ISBN 978-1-5386-4799-8

CD-ROM: CFP18604-CDR ISBN 978-1-5386-4798-1

Elsevier publishing house will be receiving all the titles of the accepted papers from WOCN2018 conference for inclusion in its databases, The identification numbers, the IEEE catalog number and ISBN and ISSN will be assigned to WOCN2018 accepted papers.

Preferred maximum paper length is 5 printed pages (10-point font) including figures. IEEE WOCN2018 will accept papers for review up to 7 pages in length. Accepted papers that are longer than 5 pages will be charged an over length fee of \$100 USD for 6 pages and \$200 USD for 7 pages. Under no circumstances may any submission should exceed 7 pages.

Papers in excess of 7 pages shall not be considered for review or publication. The cover page is not included in the page count. The title of the paper, author's name, affiliation, complete return address, telephone number, facsimile number and e-mail address should appear at the top of the first page followed by an abstract with a maximum of 100 words. Authors must state that their paper has neither been published before nor currently being submitted elsewhere. The language of the conference is English and papers must be in this language. Accepted papers will be published in the conference's proceedings and/or CD-ROMs. Please note that final submission of accepted papers must be in accordance to IEEE publisher's formatting standard

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