

First IEEE and IFIP International Conference on Wireless and Optical Communications Networks WOCN 2004

June 7-9, 2004, Sultan Qaboos University, Muscat, Oman
Venue: Al Bustan Palace InterContinental, Muscat
(<http://al-bustan.intercontinental.com>)

**Paper Submission
Deadline:
April 15, 2004**

Call For Papers



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The First IEEE and IFIP International Conference on Wireless and Optical Communications Networks (WOCN 2004) 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. The main goal of the conference is to bring together scientists and engineers who work on wireless and optical communications networks. The International conference WOCN 2004 will be held in Muscat, Oman, on June 7-9, 2004. WOCN 2004 is the first conference in its series aimed at stimulating technical exchange in the emerging and important field of Mobile, Wireless and Optical communications networks. WOCN 2004 seeks to address and capture highly innovative and state of the art research and work in the wireless and Optical 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 third generation cellular systems included ITU IMT/UMTS. 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. 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. The authors can present their finding on new Fibers, optical fiber gratings and devices, optical sensing and medical application of fiber optics and opto-electronics. Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges. The objective of this event is therefore to foster the exchange of information among researchers in these fast-moving fields.

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First IEEE and IFIP International Conference on Wireless and Optical Communications and Networks (WOCN'2004)

Date: June 7-9, 2004 Muscat, Oman



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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 modeling
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 signaling 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

Guidelines for Submission

Authors are requested to submit electronically a PDF or Word file with a maximum of 4 pages including figures in 10 pt fonts to Dr. Guy Omidyar at guy.omidyar@squ.edu.om. The 4-page paper must be written on 8 1/2 in. x 11 in. or A4-size white bond paper, typed single spaced and double-columned within 17 cm x 24 cm.

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. Clear tables, line drawings, and photographs can be included anywhere in the 4-page paper.

Characters and illustrations exceeding the 17 cm x 24 cm area limit on each page may not be printed in the conference proceedings. 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 on the conference's proceedings and/or CD-ROMs. Selected papers will also be published in the IJWOC <http://www.worldscinet.com/ijwoc/ijwoc.shtml>

*Please note that final submission of accepted papers must be in accordance to selected publisher's formatting standard which will be updated shortly. For additional information concerning paper submission, please contact guy.omidyar@squ.edu.om

For information on submitting proposals for panels and tutorials, please contact guy.omidyar@squ.edu.om

Important Dates

Paper Submissions Deadline:

April 15, 2004

Notification of Acceptance:

April 28, 2004

Camera Ready Version Due:

May 10, 2004

Details may be found at :

<http://wocn2004.tjcr.net/>