

# Call for Presentations



## The Sixteenth Wireless and Optical Communications Conference

April 27-28, 2007, NJIT, Newark, New Jersey, USA

### Conference Chair

Mary Chan, Alcatel-Lucent

### Conference Organizer

Qi Bi, Alcatel-Lucent

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Wei Luo, Broadcom

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### Conference Coordinator

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Sigen Ye, Alcatel-Lucent

### Publication

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Hong Zhang, InterDigital

### Fund Raising

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### Registration

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### Co-Sponsoring Associations

- Chinese American Academic and Professional Society
- Chinese Association of Science and Technology
- Chinese Institute of Engineers – USA
- IEEE Northern Jersey Section
- Monte Jade Science and Technology Association
- Photonics Society of Chinese Americans

The sixteenth Annual Wireless and Optical Communications Conference (WOCC) will bring together technical experts and business leaders from the North America and Pacific Rim to discuss multimedia, optical, and wireless communications technologies and business opportunities. The theme of WOCC 2007 is **Convergent Communications** over public mobile wireless networks, public fixed broadband wireline networks, and private customer premises networks. The integration of these three networks is the focus of a new next-generation network (NGN) providing *convergent user-centric services* that are no longer associated with the types of network access or content media. Instead, these convergent user-centric services will offer seamless delivery of multimedia applications including voice, data, image, and streaming video independent of any access technologies. The transport layer protocol is converging on Internet Protocol (IP) that propelled the growth of World Wide Web (WWW). The network and service providers will need to deploy standard-compliant converged networks and offer these new value-added services to save operational cost and grow their revenue. Convergent Communications can truly be considered as the enabler for the next phase of growth for the telecommunication industry.

High quality presentations and papers are solicited in the areas of wireless networking, intelligent multimedia, optical communications, and network solutions. Interesting topics include, but are not limited to, the following:

#### Wireless and Mobile Communications

- Wide-area and fixed wireless communications
- Wireless LAN/PAN
- Convergence of fixed and mobile hybrid communication system
- Low-power mobile end-devices and system-on-chip
- Security in mobile and wireless networks
- Sensor network and distributed mobile computing
- Location-based services and positioning
- Mobile and wireless applications
- Fundamental research in mobile and wireless communications

#### Network Solutions

- Convergence architectures and solutions
- Migration to NGN and mobile broadband
- Network planning, design methods and tools
- Position of new technologies in the network

#### Optical Communications

- Optical network planning, designing, and modeling
- Optical access/metro networks
- Photonic switching system architectures and network elements
- Optical passive/active components and devices
- Optical network protection and restoration
- Optical network applications

#### Intelligent Multimedia

- Multimedia indexing and search
- Semantic-based multimedia analysis
- Multimedia database
- Multimedia content personalization
- Multimedia content distribution
- Peer-to-peer multimedia
- IPTV technologies and services
- Security of multimedia data
- QoS for multimedia applications

**Submission Deadline: March 2, 2007**

**Notification: March 16, 2007**

Submit the abstract/bio in Microsoft Word to one of the program chairs:

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Please refer to [www.wocc.org](http://www.wocc.org) for the abstract/bio template and additional information.