

The Eighteenth Wireless and Optical Communications Conference

May 1 – 2, 2009, NJIT, Newark, New Jersey, USA

Conference Chair

Junyi Li, Qualcomm

Conference Organizer

Yu-Dong Yao, Stevens

Program Chairs

Wireless Symposium:

Guangying Li, Alcatel-Lucent

Jane Luo, Qualcomm

Networks Symposium:

Zhuangbo Tang, Johns Hopkins

Ben Tang, AT&T

Optical Symposium:

Angela Chiu, AT&T

Xiang Liu, Alcatel-Lucent

Multimedia Symposium:

Zhu Liu, AT&T

Hong Man, Stevens

Research Posters

Yingying Chen, Stevens

Tutorials

Hongya Ge, NJIT

Conference Coordinator

Sigen Ye, Alcatel-Lucent

Publications

Russell Sun, Alcatel-Lucent

Jin Yu, iBiquity Digital

Fund Raising

Qi Bi, Alcatel-Lucent

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James Hwang, Lehigh

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Mengchu Zhou, NJIT

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Co-Sponsoring Associations

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

The eighteenth 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 2009 is **Converging Broadband 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 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 that propelled the growth of the world wide web. 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. The conference consists of four symposiums, with topics including, but not limited to, the following:

Wireless Symposium

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

Networks Symposium

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

Optical Symposium

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

Multimedia Symposium

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

Submission Deadline: February 15, 2009

Notification: March 15, 2009

Submit your papers to one of the symposium chairs:

- **Wireless:** Guangying Li <gli@alcatel-lucent.com>, Jane Luo <jianghon@qualcomm.com>
- **Networks:** Zhuangbo Tang <z.bo.tang@jhuapl.edu>, Ben Tang <btang@alcatel-lucent.com>
- **Optical:** Angela Chiu, <chiu@research.att.com>, Xiang Liu <xliu20@alcatel-lucent.com>
- **Multimedia:** Zhu Liu <zliu@research.att.com>, Hong Man <hong.man@stevens.edu>

There are two steps in paper submissions:

Step 1: Submit an abstract/bio/photo form in Microsoft Word to your symposium chair. Please use the abstract/bio/photo template <<http://www.wocc.org/wocc2009/doc/abstract-bio-photo-template.doc>>. The abstract/bio/photo will be included in a hard-copy conference program pamphlet.

Step 2: Submit either a 1-page short paper or a max-5-page full-length paper. The papers are planned to be included in IEEE Xplore. Please use a standard IEEE conference paper template <<http://www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html>>. Convert your file into a PDF file and email the PDF file to your symposium chair.

<http://www.wocc.org>

Please also see Research Poster Contest:
<http://www.ece.stevens-tech.edu/~ychen/wocc/poster>