Call for Papers for
Optical Networks and Systems Symposium

Scope and Motivation:

In the past decades, optical communication technologies have been widely adopted in the backbone, metropolitan, access and LANs. In recent years, the marriage of social networks and smartphones has generated unprecedented amount of data, which brings both challenges and opportunities to optical networks and systems. To deal with massive increase of I/O and bandwidth in datacenters, new optical interconnect technologies have attracted increasing research efforts. Meanwhile, SDN enabled optical network solutions may become the next driving force in providing much faster and flexible delivery of optical transport services with low operational cost. IEEE Globecom 2014 Optical Network and System Symposium solicits original papers related to the latest research development in all areas of optical networks and systems.

Main Topics of Interest:

- Optical interconnects in datacenter networks
- Software defined optical networks
- Elastic optical networks
- Virtualization in optical networks
- Optical networks for future Internet design
- Optical OFDM and coherent optical systems
- Coding, modulation, and signal processing in optical networks
- Optical switching technologies, devices, and architectures
- Optical access networks
- IP/WDM integration
- Optical network architectures, design and performance evaluation
- Optical network control and management
- Fiber-Wireless Networks
- Optical crossconnects and add drop multiplexers
- Dispersion and nonlinearity management in optical networks
- Traffic grooming and traffic engineering in optical networks
- Optical network resilience
- Optical storage networks

- Optical network testbeds and experiments
- Optical translucent networks
- Energy efficient/green optical networks and systems
- Multi-domain and multi-layer optical networks
- Free space optics
- Optical network security
- Optical virtual private networks
- Physical-layer impairment-aware optical network design and traffic engineering
- Optical broadcast, multicast, manycast, and anycast

Sponsoring Technical Committees:

- Optical Networking
- Computer Communication

How to Submit a Paper:

The IEEE Globecom 2014 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2014. Unlike recent ICC's and Globecom's, this is a hard deadline that will not be extended.**

Symposium Co-Chairs:

- Jianping Wang, City University of Hong Kong, Hong Kong SAR, China, jianwang@cityu.edu.hk
- Yusheng Ji, National Institute of Informatics, Japan, kei@nii.ac.jp
- Muriel Médard, Massachusetts Institute of Technology, USA, Email: medard@mit.edu

Biographies:

Jianping Wang is currently an associate professor in the Department of Computer Science at City University of Hong Kong. She received her BSc and MSc degrees from Nankai University in 1996 and 1999 respectively, and her Ph.D. degree from University of Texas at Dallas in 2003. Prior to joining CityU, she worked at Georgia Southern University and University of Mississippi as an assistant professor. Her research interests include optical networking, dependable networking,

wireless networking, cloud computing, service oriented networking, data center networks, integration of Fiber-Wireless networks, and network coding. She is an editor of Optical Switching and Networking, an associate editor of IEEE Transactions on Mobile Computing, an associate editor of IEEE Communication Letters. She is an IEEE member.

Yusheng Ji received the BE, ME, and DE degrees in electrical engineering from the University of Tokyo in 1984, 1986, and 1989, respectively. She joined the National Center for Science Information Systems, Japan (NACSIS) in 1990. Currently, she is a professor at the National Institute of Informatics, Japan (NII), and the Graduate University for Advanced Studies (SOKENDAI). Her research interests include network architecture, traffic control, and performance analysis for quality of service provisioning in wired and wireless communication networks. She has served as a Board Member of Trustees of IEICE, Steering Committee Member of Quality Aware Internet (QAI) SIG and Internet and Operation Technologies (IOT) SIG of IPSJ, associate editor of IEICE Transactions, Guest Editor and guest associate editor of Special Sections of IEICE Transactions, associate editor of IPSJ Journal, etc. She has also served as a TPC member of many conferences, including IEEE ICC, IEEE GLOBECOM, PIMRC, etc., and the Wireless Networking Symposium co-chair of IEEE GLOBECOM 2012. She is a member of the IEEE, IEICE, and IPSJ.

Muriel Médard is a Professor of Electrical Engineering at MIT. She was previously an Assistant Professor in the ECE Department at UIUC and a Staff Member at MIT Lincoln Laboratory. She received B.S. degrees in EECS, in Mathematics, and in Humanities, as well as M.S. and Sc D. degrees in EE, all from MIT. She has served as an Associate Editor for the Optical Communications and Networking Series of the IEEE Journal on Selected Areas in Communications, the IEEE Transactions on Information Theory and the OSA Journal of Optical Networking, the IEEE/OSA Journal of Lightwave Technology. She is a member of the Board of Governors of the IEEE Information Theory Society and currently serves as First Vice-President. She was awarded the 2009 IEEE Communication Society and Information Theory Society Joint Paper Award , the 2009 IEEE William R. Bennett Prize in the Field of Communications, and the 2002 IEEE Leon K. Kirchmayer Prize Paper Award. She was co-winner of the 2004 MIT Harold E. Edgerton Faculty Achievement Award. In 2007, she was named a Gilbreth Lecturer by the National Academy of Engineering. Professor Médard's research interests are network coding and reliable communications, particularly for optical and wireless networks.