

IEEE International Conference on Communications  
IEEE ICC 2014  
*Communications: The Centrepiece of the Digital Economy*  
10-14 June 2014, Sydney, Australia

**Communications QoS, Reliability, and Modeling Networking  
Symposium**

Symposium Co-Chairs

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The 2014 IEEE International Conference on Communications (ICC) will be held in the beautiful city of Sydney, Australia between 10 and 14 June 2014. The theme of this flagship conference of IEEE Communications Society for 2014 is “*Communications: The Centrepiece of the Digital Economy.*” The conference will feature a comprehensive technical program including twelve Symposia and a number of Tutorials and Workshops. IEEE ICC 2014 will also include an attractive expo program including keynote speakers, and Industry Forum & Exhibitions (IF&E). We invite you to submit your original technical papers, industry forum, workshop, and tutorial proposals to this event. Accepted and presented papers will be published in the IEEE ICC 2014 Conference Proceedings and in IEEE Xplore®. Full details of submission procedures are available at <http://www.ieee-icc.org/2014>.

**Scope and Topics of Interest**

The Communications QoS, Reliability, and Modeling Networking Symposium will focus on research advances in communications service provisioning, quality of service technologies, and analytical and experimental techniques. Communication networks need to be designed as a reliable information infrastructure with quality of service (QoS) capability. To this end, there have been extensive research activities on a series of related topics including traffic modeling, resource allocation, network monitoring, and service management. The particular challenge is that communication networks based on different technologies need to cooperate with each other for end-to-end QoS provisioning and support a wide range of multi-media applications over a huge number of customers. Furthermore, the communication networks should be capable of supporting user roaming and mobility. Such a large-scale heterogeneous networking environment incurs fundamental challenges on traditional theories, analysis, modeling and experiment methods. The symposium of Communications QoS, Reliability, and Modeling aims at providing an international venue for the discussion of research advances in communications service provisioning, quality of service technologies, and analytical and experimental techniques.

To ensure complete coverage of the advances in this field, the Communications QoS, Reliability, and Modeling Networking Symposium solicits original contributions in, but not limited to, the following topical areas:

- Quality in Multimedia Networks, including Voice over IP and IPTV
- Quality, Scalability and Performance in the Internet
- Quality and Performance in Wireless and Mobile Networks
- Quality, Reliability and Performance in Optical and Multi-Layer Networks
- Quality and Performance in Autonomic Systems
- Quality and Performance in Grid, Cloud and Distributed Computing
- Quality and Performance in Overlay (including Peer-to-Peer) Networks
- Quality and Performance for Network and Services
- Quality and Resource Allocation for Network Services, VPN, Web
- Performance Modeling of Next-Generation Networks
- Performance of Large Scale Experimental Platforms
- Scalability, Robustness and Resilience
- Standardization Aspects of QoS and Reliability
- Network Performance Evaluation Techniques
- TCP/IP Performance
- Design of Networks and Network Services
- Cross-Layer Design, Modeling and Optimization
- Application/Service Oriented Networking
- Network Simulation Techniques
- Network Modeling
- Network Measurement and Monitoring Techniques
- Resource Allocation for Networks and Their Services
- Traffic and Workload Modeling and Characterization
- Traffic and Workload Control
- Traffic Economics
- Traffic Engineering and Traffic Theory
- Metrics and Models for Quality of Experience (QoE)

### **Submission Guidelines**

Prospective authors are invited to submit original technical papers by the deadline 15 September 2013 for publication in the IEEE ICC 2014 Conference Proceedings and for oral or poster presentation(s). All submissions should be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with over length page charge if accepted).

**Standard IEEE Transactions templates for Microsoft Word or LaTeX formats found at**

<http://www.ieee.org/portal/pages/pubs/transactions/stylesheets.html>

**Alternatively you can follow the sample instructions in template.pdf at**

<http://www.comsoc.org/confs/globecom/2008/downloads/template.pdf>

**Only PDF files will be accepted for the review process and all submissions must be done through EDAS at**

<http://edas.info/>

Dr. Kohei Shiomoto (M'89) received the B.E., M.E., and Ph.D. degrees in information and computer sciences from Osaka University, Osaka in 1987, 1989, and 1998, respectively. Currently he is a Senior Manager of Communication & Traffic Service Quality Project, NTT Network Technology Laboratories, NTT, Tokyo, Japan. He joined NTT in 1989. He was involved in research and development of ATM switching system and ATM traffic control from 1989 to 1995 at NTT Labs. From 1996 to 1997, he was engaged in research on high-speed networking as Visiting Scholar at Washington University in St. Louis, MO, USA. He was directing architecture design for high-speed IP/MPLS label switching router research project at NTT Labs from 1997 to 2001. He was engaged in research of photonic IP router design, routing algorithm, and GMPLS routing and signaling standardization for the IETF at NTT Labs from 2001 to 2011. He has been engaged in research of traffic and quality management in network at NTT Labs from 2011. He co-authored "GMPLS Technologies: Broadband Backbone Networks and Systems (Optical Engineering)" Marcel Dekker Inc. He is a Fellow of IEICE and a member of IEEE, and ACM. He is the Chair of Chapter Coordination Committee of the Asia Pacific Board of the IEEE Communications Society (IEEE ComSoc APB). He has been continuously serving various positions including Information Services Committee Chair in the IEEE ComSoc APB since 2004. He served Technical Program Committee members of a number of IEEE conferences including Globecom/ICC. He received the Young Engineer Award from the IEICE in 1995. He received the Switching System Research Award from the IEICE in 1995 and 2001.

#### Stefano Giordano

Stefano Giordano (M'89, SM'10) received the Laurea Degree in Electronics Engineering "cum laude" in 1990, and the PhD Degree in Information Engineering both at the University of Pisa. At present he is an associate professor at the Department of Information Engineering of the University of Pisa where he is the responsible of the telecommunication networks laboratories. He is Chair of the Communication Systems Integration and Modeling (CSIM) Technical Committee of IEEE Comsoc. He is member of IFIP WG 6.3 and of ISOC (Internet Society) since its foundation in 1992 - member of the Board of its Italian Charter. He was General Chair and Technical Program Co-Chair of the conference IEEE CAMAD 2009 (Computer Aided Modelling Analysis and Design) held in Pisa. He was TPC co-chair of the Communication QoS, Reliability and Modelling Symposium of the IEEE Globecom 2011 in Houston, TPC co-chair of the Symposium on Next Generation Networking of the IEEE Globecom 2012 in Anaheim in California and TPC co-chair CQRM Symposium of the Globecom 2013 to be held in Atlanta. He was co-founder of Nextworks Srl, Netresults Srl and of the CUBIT (Consortium of Ubiquitous Networking). His current interest include traffic measurements and networking for data centers and cloud computing.

#### Wei Song

Wei Song (M'09) received her Ph.D. degree in electrical and computer engineering from the University of Waterloo, Canada, in 2007. Since 2008, she has worked as a postdoctoral research fellow at the Department of Electrical Engineering and Computer Sciences, University of California, Berkeley. In July 2009, she joined the Faculty of Computer Science, University of New Brunswick, as an assistant professor. She received a Best Student Paper Award with her student from IEEE Consumers Communications and Networking Conference (CCNC) 2013, a Harrison McCain Foundation Young Scholars Award in 2010, a Top 10% Award from IEEE Workshop on Multimedia Signal

Processing (MMSP) 2009, and a Best Paper Award from IEEE WCNC 2007. Her current research interests include the interworking of heterogeneous wireless networks, resource allocation for wireless networks, cooperative wireless networking, and cross-layer design for multimedia service provisioning.