



Call for Papers for *Communications QoS, Reliability & Modeling Symposium*

Scope and Motivation:

Communication networks need to be designed as a reliable information infrastructure platform equipped with quality of service (QoS) capabilities. 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. A key challenge stems from the fact 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. Further, 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.

Main Topics of Interest:

- 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)

Sponsoring Technical Committees:

- Communications Systems Integration & Modeling (CSIM)
- Communications Quality & Reliability (CQR)

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:

- George Michailidis, University of Michigan, USA, gmichail@umich.edu
- Weider D. Yu, San Jose State University, USA, weider.yu@sjsu.edu

Biographies:



George Michailidis received the Ph.D. degree in mathematics from the University of California, Los Angeles, in 1996. He was a Postdoctoral Fellow in the Department of Operations Research at Stanford University from 1996 to 1998. He joined the University of Michigan, Ann Arbor, in 1998, where he is currently a Professor of Statistics, Electrical Engineering, and Computer Science. He is a Fellow of the Institute of Mathematical Statistics, the American Statistical Association and the

International Statistical Institute. He is the editor-in-chief of the Electronic Journal of Statistics and serves on a number of editorial boards. He served as symposium chair on Support for Storage, Renewable Sources and Micro-grid for SmartGridComm 2012 and is the secretary of the IEEE subcommittee on SmartGrid Communications. His research interests are in the areas of stochastic network modeling and performance evaluation, queuing analysis and congestion control, statistical modeling and analysis of Internet traffic, network tomography, and analysis of high dimensional data with network structure.



Weider D. Yu is a full Professor in the Computer Engineering Department at San Jose State University, San Jose (Silicon Valley), California. He received the Ph.D. from Northwestern University in Electrical Engineering and Computer Science. He attended the MBA program in the Graduate School of Business at University of Chicago. Dr. Yu was a Distinguished Member of Technical Staff at Bell Laboratories and an adjunct professor in the EECS department, University of Illinois at Chicago. Dr. Yu has been performing his research activities in the areas of Quality of Service (QoS), modeling and measurement, ubiquitous networked system quality, reliability, metrics, performance, mobile/web/cloud related services, security, and privacy. Dr. Yu has published on Bell Labs Technical Journal, AT&T Technical Journal, IEEE Journal of Selected Areas in Communications (JSAC), Journal of Telemedicine and e-Health, and various international technical journals and IEEE conference proceedings. Dr. Yu was the Symposia Chair of Quality of Service Symposia in the 2001 IEEE International Communication Conference (2001 ICC). He also served in a variety of Technical Program Committees in past Globecom and ICC conferences. He was a Technical Program Chair of IEEE International Communications of Quality and Reliability (CQR) Workshop, and is a vice chair of the CQR Technical Committee.