

CALL FOR PAPERS -- IEEE GLOBECOM 2012

Communications QoS, Reliability, and Modeling SYMPOSIUM

Symposium Co-Chairs

Fabrizio Granelli, University of Trento, Italy, granelli@disi.unitn.it

Chonggang Wang, Interdigital USA chonggang.wang@interdigital.com

Tetsuya Yokotani, Mitsubishi Electric Corporation, Japan,

Yokotani.Tetsuya@eb.mitsubishielectric.co.jp

Scope and Motivation

Communication networks need to be designed as a reliable information infrastructure with the 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. Authors are invited to submit original technical papers covering but not limited to the topics of interest listed below:

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
- 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)

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Xinbing Wang, Shanghai Jiaotong University, P.R. China
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Ke Xu, Tsinghua University, P.R. China
Miki Yamamoto, Kansai University, Japan
Katsunori Yamaoka, Tokyo Institute of Technology, Japan

Tokumi Yokohira, Okayama University, Japan
Hideaki Yoshino, NTT, Japan
Weiyi Zhang, AT&T Labs Research, USA
Marat Zhanikeev, Waseda University, Japan
Yiqing Zhou, Chinese Academy of Science, P.R. China