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IEEE COMMUNICATIONS SOCIETY

Call for Papers for *Communication QoS, Reliability and Modeling Symposium*

Scope and Motivation:

In modern communication networks, different technologies need to cooperate with each other for end-to-end quality of service (QoS) provisioning, support a wide range of multi-media applications with a huge number of customers represented not only by humans, but more and more by things and robots interconnected to each other and to data centers.

The Communication QoS, Reliability and Modeling (CQRM) Symposium aims at providing an international venue for the discussion of research advances in communications service provisioning, quality of service/experience technologies, and analytical and experimental techniques to allow the design of communication networks as a reliable information infrastructure with QoS capability.

The scope of this symposium is agnostic to network technologies. Specifically, the goal is to address the key challenges to provide the required level of QoS, security and reliability to coexisting networks that are heterogeneous in the node characteristics, in the number of nodes, and in the type of information transmitted.

Main Topics of Interest:

Networks and Communication Systems Design

- Design and Evaluation of Energy Efficient Networks and Services
- Design and Evaluation of Software Defined Networking (SDN) Architectures and Networks
- Design and Evaluation of Application / Service Oriented Networking
- Cross-layer Design, Modeling and Optimization
- Design and Evaluation of Content Distribution Networks (CDNs)
- Design of Networks and Network Services
- Cooperative Networking and Unified Management of Connectivity
- Tradeoff Between Performance and Energy Efficiency in Network Design
- Design of network architectures/technologies for ubiquitous 5G multitenant networks

QoS and Network Efficiency

- Performance Evaluation Techniques
- Quality and Performance for Network and Services
- Quality, Scalability and Performance in the Internet
- Quality, Reliability and Performance in Optical and Multi-layer Networks
- Quality and Performance in Autonomic Systems
- Metrics and Models for Quality of Experience (QoE)
- TCP/IP Variants and Performance
- Multimedia Streaming, Adaptive Streaming, MPEG-DASH
- Quality and Efficiency for Web browsing, HTTP 2.0
- Quality in Multimedia Networks including Voice over IP and IPTV

Networks and Communication Systems Modeling and Performance Evaluation

- Quality and Performance in Wireless and Mobile Networks
- Wireless and Mobile Networks Performance
- Modeling and Performance of 5G wireless radio networks
- Performance of Mobile Cloud Networks
- Performance Evaluation of SDN-based Networks
- Performance and Efficiency of Energy Harvesting

Network Measurement and Monitoring Techniques

- Network Measurement and Monitoring Techniques
- Network Simulation Techniques
- Measurement and Evaluation Techniques of Energy Efficient Communication Systems
- Performance Evaluation and Design of Cognitive Network Architectures
- Performance Evaluation and Integration in Smart Grids Communications and Demand Response Techniques
- Network Traffic Characterization and Measurement
- Machine-Learning and Artificial Intelligence for Traffic/QoE Management
- Integrated Multitenant 5G Platforms

Design of Cloud, Grid and Distributed Computing Networks

- Quality and Performance in Grid, Distributed and Cloud Computing
- Quality and Performance in Overlay (including Peer-to-Peer) Networks
- Quality and Resource Allocation for Network Services, VPN, Web

- Performance Evaluation and Design of Cloud Networks
- Resource Allocation for Networks and Their Services
- Software-Defined Networking (SDN) and Network Functions Virtualization (NFV)

Integration Aspects in IoT and Big Data Systems

- Quality, Measurements and Performance in the Internet of Things (IoT) and Big Data Applications
- IoT Platforms, Integration and Services
- Design and Scalability of Smart Cities and Crowd Sensing Applications
- Quality, Measurements and Performance in Cyber Physical Systems
- Scalability and Performance of Edge Computing and Distributed Computing Systems
- Integration of Objects, Devices and Systems in an IoT Environment

Security, Reliability and Trust in Network Design

- Security, Privacy and Trust by Design and Performance Evaluation
- Scalability, Robustness and Resilience
- Standardization Aspects of QoS and Reliability

Sponsoring Technical Committees:

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

How to Submit a Paper:

The IEEE Globecom 2016 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2016.**

Symposium Co-Chairs:

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