Communication QoS, Reliability and Modeling Symposium

SYMPOSIUM CHAIRS AND CO-CHAIRS:

Xianbin Wang, Western University, Canada, xianbin.wang@uwo.ca
Hidenori Nakazato, Waseda University, Japan, nakazatoh@ieee.org
Melike Erol-Kantarci, University of Ottawa, Canada, melike.erolkantarci@uottawa.ca

SCOPE AND MOTIVATION

With ongoing evolution and integration of 5G, Internet of Things (IoT), and vertical applications, we are quickly leaping forward to a ubiquitously connected society where communications for human and machine intelligence is becoming a key enabler. In modern communication infrastructure, different networks need to co-exist for end-to-end quality of service (QoS) provisioning in a wide range of applications with a huge number of endpoints represented not only by humans, but more and more by things and machines 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 nature, in size, and in the type of information transmitted.

TOPICS OF INTEREST

Topics of interest for the CQRM Symposium include, but are not limited to:

- Metrics and Models for Quality of Experience (QoE) and Quality of Service (QoS)
- QoS provisioning in machine communications
- 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 and Evaluation of Smart Cities
- 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
- 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
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
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
Modeling and Performance of Socially-Aware Wireless and Mobile Networks
Performance and Efficiency of Energy Harvesting
Network Measurement and Monitoring Techniques
Network Measurement for Smart Cities and Internet of Things (IoT)
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
Performance Evaluation and Design of Connected Autonomous Electric Vehicles
Network Traffic Characterization and Measurement
Machine Learning and Artificial Intelligence for Traffic and QoE Management
Performance evaluation of machine learning based techniques for communications and networks
Performance evaluation of new RAN architectures
Integrated Multitenant 5G Platforms
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
Performance Evaluation and Design of Vehicular Cloud Networks
Resource Allocation for Networks and Their Services
Software-Defined Networking (SDN) and Network Functions Virtualization (NFV)
Quality and Performance in Mobile Edge and Fog Computing Systems
Quality, Measurements and Performance in IoT and Big Data Applications
IoT Platforms, Integration and Service Provisioning
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, Privacy and Trust by Design and Performance Evaluation
Scalability, Robustness and Resilience
Integration of Behavioral (or Soft) Biometrics into IoT Environments
Standardization Aspects of QoS and Reliability
Dependable Communication Networks

IMPORTANT DATES

Paper Submission: 15 April 2020

Notification: 25 July 2020

Camera Ready and Registration: 1 September 2020

SUBMISSION INSTRUCTION

All papers for technical symposia should be submitted via EDAS through the following link: https://edas.info/N27054