

Call for Papers for Communication QoS, Reliability and Modeling Symposium

Symposium Co-Chairs

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Submissions must be done through EDAS at <http://edas.info/N20953>

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

- Application / Service Oriented Networking
- Cross-layer Design, Modeling and Optimization
- Design and Evaluation of Content Distribution Networks
- Design of Networks and Network Services
- Design of Software Defined Networks
- Security, Privacy and Trust by design and performance evaluation
- Measurement and evaluation techniques of energy efficient networks
- Measurement and evaluation techniques of energy efficiency in communication systems
- Metrics and Models for Quality of Experience (QoE)
- Mobile performance
- MPEG-DASH streaming
- Multipath TCP
- Network design and evaluation of Energy Efficient (Green) networks
- Network Measurement and Monitoring Techniques
- Network Modeling
- Network Simulation Techniques
- Performance evaluation and design of cloud networks
- Performance evaluation and design of cognitive network architectures
- Performance evaluation and integration in Smart Grids communications and demand response techniques.
- Performance Evaluation Techniques
- 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, Distributed and Cloud 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
- Resource Allocation for Networks and their services
- Scalability, Robustness and Resilience
- Quality and Performance in Software-Defined Networking (SDN), and Network functions Virtualization (NFV)
- Standardization Aspects of QoS and Reliability
- TCP/IP Variants and Performance
- Quality, measurements and Performance in the Internet of Things and their applications.
- Quality, measurements and Performance in Cyber Physical Systems

Sponsoring Technical Committees

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

Co-Chairs Biographies

Kohei Shiomoto

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 served Co-Chair of CQRM symposium for the ICC 2014 and Globecom 2015. 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.

Christos Verikoukis

Dr. Christos Verikoukis got his Ph.D. from the Technical University of Catalonia in 2000. He is currently a Senior Researcher at CTTC and an Adjunct Associate Professor at Barcelona University (UB). He has published 69 journal papers and over 140 conference papers. He is also co-author in 3 books, 14 chapters in different books and in 2 patents. He has supervised 15 Ph.D. students and 5 Post Docs researchers since 2004.

Dr. Verikoukis has participated more than 30 competitive projects while he has served as the Principal and Technical Manager in some of them. He appointed to serve as a EU-independent expert acting evaluator in FP7, ARTEMIS-JU and H2020 projects as well as in research funded projects in Greece, Spain, Jordan, Serbia and Canada.

Dr. Verikoukis was the General Chair of the 19th, 17th and 18th IEEE Workshop on Computer-Aided Modeling, Analysis, and Design of Communication Links and Networks (IEEE CAMAD12, CAMAD13 and CAMAD14) and the TPC Co-Chair of the 15th IEEE International Conference on E-health Networking, Application & Services (Helathcom13) and in the 6th IEEE Latincom 2014. He also served as the CQRM symposium co-chair in the ICC2015 and the the chair of the eHealth Track of the Globecom 2015. He has served as co-editor in 7 special issues. He has also served as a TPC member in numerous of IEEE conferences (e.g. ICC, Globecom, etc.).

He is also a regular reviewer in a number of international journals.

He is currently an officer of the IEEE ComSoc Technical Committee on Communication Systems Integration and Modeling (CSIM).

Dr. Verikoukis received the best paper award of the Communication QoS, Reliability & Modeling Symposium (CQRM) symposium in the IEEE ICC11 conference and the EURASIP 2013 Best Paper Award for the Journal on Advances in Signal Processing.

Charalabos Skianis

Prof. Charalabos Skianis (Senior Member IEEE) is currently Associate Professor and Head in the Department of Information and Communication Systems at the University of the Aegean in Samos, Greece. He holds a PhD degree in Computer Science, University of Bradford, United Kingdom and a BSc in Physics, Department of Physics, University of Patras, Greece. His work is published in journals, conference proceedings and as book chapters and has also been presented in numerous conferences and workshops. He acts within Technical Program and Organizing Committees for numerous conferences and workshops (e.g., IEEE Globecom, IEEE ICC IEEE CAMAD) and as a Guest Editor for scientific journals (e.g., IEEE Networks magazine). He is at the editorial board of journals (e.g., IEEE Communications Magazine,), a member of pronounced professional societies (senior member of IEEE) and an active reviewer for several scientific journals. He is an active member of several Technical Committees within the IEEE ComSoc [past TC CSIM chair; TC ComSoft; TC II], and member of IEEE BTS; IEEE TVT and IEEE CS. He was the technical Manager of the Vital++ project, while he is currently the Project Manager for FP7-ICT PASSIVE and a partner representative for FP7-ICT HURRICANE.