



Call for Papers for *Next-Generation Networking Symposium*

Scope and Motivation:

Over the past decade, communications and networking technologies have advanced at a tremendous pace. Of particular importance to Next-Generation Networks are emerging topics in the area of software defined networks, datacenter networks, network heterogeneity, adaptability, scalability, virtualization, services and applications, security, manageability, dependability, and performance predictability. In addition, many salient issues impact broadband next-generation wireless networks, such as self-organization, energy efficiency, cross-layer design, and mobility management. The Next-Generation Networking Symposium at IEEE Globecom 2014 aims to consolidate and disseminate the latest developments and advancements in these emerging focus areas. This symposium invites participation from both academic and industry researchers working in the area of next-generation networking technologies, services, architectures, and protocols. The overall goal is to present the latest snapshot of the ongoing research as well as to shed further light on future directions in this space.

Main Topics of Interest:

The Next-Generation Networking Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Future Internet and Next-Generation Networking architectures
- Datacenter networking, cloud-based networking, and software defined networking (SDN)
- Heterogeneous multi-layer and multi-domain networks, wireless-wireline internetworking
- Overlay networks, content-centric networks, and peer-to-peer networking
- Network virtualization, virtual private networks (VPN) and services
- Routing: unicast, multicast, and anycast; wireless and wireline
- Network survivability and network resilience strategies
- Next generation switch and router architectures, performance analysis, traffic scheduling, buffer management
- Future Internet security, privacy, intrusion detection and prevention
- Traffic measurement, analysis, modeling, visualization, and engineering

- Mechanisms for self-organization, naming, mobility support, and autonomous networking
- Emerging Internet applications including interactive media, voice and video games, immersive applications, and applications for Internet of things
- Architecture and protocol design for Next-Generation Social Networking services
- Design methodologies for future Internet services
- Next-Generation access networking
- Next generation network provisioning, monitoring, and management
- Energy-efficient protocol design and green communications

Sponsoring Technical Committees:

- Computer Communications
- Internet TC
- Ad Hoc & Sensor Networks

How to Submit a Paper:

The IEEE Globecom 2014 website provides full instructions on how to submit papers. You will select the desired symposia 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:

- Lawrence Yeung, The University of Hong Kong, Hong Kong, kyeung@eee.hku.hk
- Yevgeni Koucheryavy, Tampere University of Technology, Finland, yk@cs.tut.fi
- Richard W. Pazzi, University of Ontario Institute of Technology, Canada, richard.pazzi@uoit.ca

Biographies:



Lawrence Yeung (IEEE SM'99) received his B.Eng. and Ph.D. degrees in Information Engineering from The Chinese University of Hong Kong in 1992 and 1995, respectively. He joined the Department of Electrical and Electronic Engineering, The University of Hong Kong in July 2000, where he is currently a Professor, and the Information Engineering Program Co-Director. Before that, he has spent five years in the Department of Electronic Engineering, City University of Hong Kong as an Assistant Professor. During the summer of 1993, Lawrence served with the Performance Analysis

Department, AT&T Bell Laboratories, Holmdel, USA, as a Member of Technical Staff-I. Lawrence's research interests include next-generation Internet, packet switch/router design, all-optical networks and wireless data networks. He has co-authored a book and published over 180 papers in international journals and conferences.



Yevgeni Koucheryavy is a Full Professor and Lab Director in the Department of Electronics and Communications Engineering at the Tampere University of Technology (TUT), Finland. He received his MSc degree (1997) from the State University of Telecommunications, St. Petersburg, Russia, and his PhD degree (2004) from the TUT. Yevgeni has worked in a number of research and development projects within different frameworks, e.g., FP7, and companies including Nokia, Nokia Siemens Networks, Intel, Alcatel-Lucent, Ericsson, Cisco, etc. Within last 3 years (2011 – 2013) Yevgeni managed to attract over 2 mln Euros as a research funding from sources external to TUT. He is an invited expert in the Skolkovo Foundation (Russia) and acts as an external reviewer for state funding agencies of several European countries. Yevgeni has authored or co-authored over 100 papers in the field of advanced wired and wireless networking and communications. His current research interests include various aspects in heterogeneous wireless communication networks and systems, network and services performance evaluation, the Internet of Things and its standardization, nanocommunications. Yevgeni is an Associate Technical Editor of IEEE Communications Magazine, Editor of IEEE Communications Surveys and Tutorials and Editor of IEEE Communication Society Technology News. Yevgeni is a Senior IEEE member.



Richard W. Pazzi is an Assistant Professor at the University of Ontario Institute of Technology (UOIT), Canada. Prior to joining UOIT, Dr. Pazzi was appointed as senior research manager of the NSERC DIVA Strategic Research Network (2010 to 2012). In this position, Dr. Pazzi oversaw the network activities and conducted research in the area of intelligent vehicular networks. For his PhD in Computer Science (University of Ottawa, Canada, 2008), Dr. Pazzi investigated and developed novel interactive multimedia communication protocols and energy-efficient data gathering mechanisms for wireless sensor networks. His research interests include communication protocols for vehicular and sensor networks, mobile data gathering in wireless sensor networks, and the convergence of sensor networks and interactive 3D virtual environments to support training and monitoring applications. He has published over 70 papers in international journals and conferences. He has been awarded best research papers from IEEE ICC (2009) and IEEE IWCMC (2009). He has been participating actively in program committees of a number of IEEE and ACM conferences and workshops.