IEEE GLOBECOM 2016
#IEEEGC16: Freedom through Communications
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IEEE COMMUNICATIONS SOCIETY

Call for Papers for *Next-Generation Networking and Internet Symposium*

Scope and Motivation:

The focus of the Next-Generation Networking Symposium includes emerging topics in the broad area of networking, with emphasis on software defined networks, data center, network heterogeneity, mobile cloud, content-centric networking, adaptability, flexibility, scalability, virtualization, security, manageability, dependability, performance predictability, and energy efficiency. The Symposium aims to consolidate and disseminate the latest developments and advancements in these emerging focus areas, and encourages participation from both academic and industry researchers working in the area of next-generation networking technologies, services, architectures, and protocols.

Main Topics of Interest:

The Next-Generation Networking Symposium seeks original contributions in the following topical areas: Closely related topics not explicitly listed are also welcomed.

- Future Internet and Next-Generation Networking architectures
- Datacenter and cloud-based networking
- Software Defined Networking (SDN)
- Network Function Virtualization (NFV)
- Heterogeneous multi-layer and multi-domain networks, including wireless-wireline internetworking
- Overlay networks and peer-to-peer networks
- Information centric and content-centric networks
- Network virtualization, virtual private networks (VPN) and services
- Unicast, multicast, and anycast routing
- Network survivability and network resilience strategies
- Traffic measurement, analysis, modeling, visualization, and engineering
- Mechanisms for self-organization, naming, mobility support, and autonomous networking

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- 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
- Machine-to-Machine, Device-to-Device, Machine-Type-Communications in next generation Internet
- Network provisioning, monitoring, and management
- Energy-efficient protocol design and green communication
- Next generation switch and router architectures
- Traffic scheduling, buffer management and QoS provisioning techniques
- Future Internet security, privacy, intrusion detection and prevention
- Next-Generation networking for Big Data processing

Sponsoring Technical Committees:

- Communications Switching and Routing

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. Unlike recent ICC's and Globecom's, this is a hard deadline that will not be extended.**

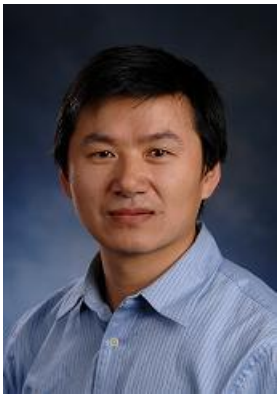
Symposium Co-Chairs:

- Roberto Rojas-Cessa, New Jersey Institute of Technology, USA, rojas@njit.edu
- Periklis Chatzimisios, Alexander TEI of Thessaloniki
- Xiaojun (Matt) Cao, Georgia State University

Biographies:

Roberto Rojas-Cessa (IEEE S'97–M'01–SM'11) received the Ph.D. degree in electrical engineering from Polytechnic Institute of New York University, Brooklyn, NY, USA. Currently, he is an Associate Professor in the Department of Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, NJ, USA. He has been involved in design and implementation of application-specific integrated circuits (ASIC) for biomedical applications and high-speed computer communications, and in the development of high-performance and scalable packet switches and reliable switches. He was part of a team designing a 40 Tb/s core router in Coree, Inc, in Tinton Falls, NJ. His research interests include data center networks, high-speed switching and routing, fault tolerance, quality-of-service networks, network measurements, and distributed systems. He was an Invited Fellow of the Japanese Society for the Advancement of Science in 2009. He visited the University of Electro-Communications, Japan. He was a Visiting Professor in Thammasat University, Thailand. He is a co-author of the book Advanced Internet Protocols, Services, and Applications (Wiley and Sons, 2012). His research has been funded by U.S. National Science Foundation and private companies. He has served in technical committees for numerous IEEE conferences, as a reviewer for several IEEE journals, and as a reviewer and panelist for U.S. National Science Foundation and U.S. Department of Energy. He is the recipient of the Excellence in Teaching Award 2013 of the Newark College of Engineering. He is a recipient of New Jersey Inventors Hall of Fame—Innovators Award in 2013.

Periklis Chatzimisios (SM'12) received the Ph.D. degree from Bournemouth University, UK and the B.Sc. degree from Alexander TEI of Thessaloniki, Greece. He currently serves as an Associate Professor in the Department of Informatics at the Alexander TEI of Thessaloniki (ATEITHE), Greece. Recently he has been a Visiting Academic/Researcher in University of Toronto (Canada) and Massachusetts Institute of Technology (USA). Dr. Chatzimisios is involved in several standardization activities serving as a Member of the Standards Development Board for the IEEE Communication Society (ComSoc) (2010-today), Vice-Chair for Big Data Communications of the Big Data Standards Committee (BDSC) for the IEEE Big Data Initiative (BDI), Secretary of the IEEE 1907.1 Standardization Working Group and lately as an active member of the IEEE Research Groups on IoT Communications & Networking Infrastructure and on Software Defined & Virtualized Wireless Access. He is also very active in IEEE activities such as serving as Member of IEEE ComSoC Education & Training Board, Vice Chair of the Emerging Technical Subcommittee on Big Data (TSCBD) and Secretary of the IEEE Technical Committee on Cognitive Networks (TCCN) (2012-2014). Dr. Chatzimisios has served as Organizing/TPC Committee member for more than 150 conferences and as Founder/Organizer/co-Chair for many Workshops which are co-allocated with major IEEE conferences. He also holds editorial board positions for several IEEE/non-IEEE journals and he is the Director (co-Director during 2012-2014) for the E-Letter of the IEEE Technical Committee on Multimedia Communications (MMTC). He is the author/editor of 8 books and more than 100 peer-reviewed papers and book chapters. His published research work has received more than 1600 citations by other researchers.



Xiaojun (Matt) Cao (S'02-M'05) received the B.S. degree from Tsinghua University, Beijing, China, in 1996, the M.S. degree from the Chinese Academy of Sciences, Beijing, China, in 1999, and the Ph.D. degree from the State University of New York at Buffalo, Buffalo, NY, USA, in 2004. He is currently an Associate Professor with the Department of Computer Science, Georgia State University (GSU), Atlanta, GA, USA, where he leads the Advanced Network Research Group (aNet). Prior to joining GSU, he was an Assistant Professor with the College of Computing and Information Sciences, Rochester Institute of Technology, Rochester, NY, USA. He co-authored Wireless Sensor Networks: Principles and Practice (CRC Press, 2010). His primary research interests include hi-speed SDN, optical, datacenter, and cyber physical networks, intelligent sensing and information dissemination in mobile networks. He is an Associate Editor for several journals and involved in organizing a diversity of conferences/workshops. Dr. Cao is the elected IEEE ComSoc ONTC vice-chair and a recipient of a National Science Foundation CAREER Award.

TPC Members:

To be defined.