

# IEEE GLOBECOM 2015

## Call for Papers

### *Selected Areas in Communications Symposium*

#### *- Track on Access Systems and Networks –*

#### **Scope and Motivation:**

Access networks and systems use great variety of technologies to deliver many services and functions. The complexity of such systems combined with increased user expectations both in bandwidth and quality continue to make this field one of the most challenging. Recent developments in SDN and Network Function Virtualization will find their applications in Access; however, the concrete benefits from these innovative solutions remain to be seen.

The motivation of the Access Systems and Networks (ASN) Track of the Symposium on Selected Areas on Communications is to provide a platform that attracts engineers, practitioners, scientists and researchers from all over the world to present their new ideas, views, innovations, deployments, and implementations in all aspects of the field. Papers on practical applications and R&D results from industry and academic/industrial collaborations are particularly encouraged.

To ensure complete coverage of the advances in this field, the ASN Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

#### **Main Topics of Interest:**

- Twisted pair copper systems and networks; xDSL
- Hybrid Fiber Coaxial (HFC) systems and networks
- FTTx and Passive/Active Optical systems and networks (PONs and AONs)
- Cable TV systems and networks
- Bluetooth, Wi-Fi, WiMAX, and Cellular Access
- Integrated wired/wireless access
- Optical-Wireless integration and radio over fiber
- Free-Space Optical-Access (components, systems, and networks)
- Digital satellite access technology
- Access network architectures and protocols
- Software Defined Networking in access
- Service convergence and multimedia networks
- Quality of Service (QoS): characterization and provisioning
- Access network survivability and security
- Municipal, community, and utilities networks

- Power Line Communication (PLC)
- Home/Building/Neighborhood Area Networks
- Networked appliances and their virtualization
- Body area, health care and biomedical access networks
- Applications (video streaming/IPTV etc.)
- Virtualization of Network Functions in access
- Synchronization (time & frequency) support in the access
- Billing and management aspects
- Standardization
- Techno-economic analysis of access alternatives

### **Sponsoring Technical Committees:**

- Transmission, Access and Optical Systems (TAOS)

### **Submission Guidelines:**

The IEEE Globecom 2015 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2015.**

### **Symposium Track-Chair:**

Dr. Hakki Candan Cankaya, Fujitsu Network Communications, Richardson, Texas, USA  
email: [hakki.cankaya@us.fujitsu.com](mailto:hakki.cankaya@us.fujitsu.com)

### **Biography:**



Hakki C. Cankaya brings a long and distinguished network research and strategy career to his role as the symposium track-chair. At Fujitsu Network Communications, he is responsible for developing advanced networking solutions that include variety of access technologies and leveraging research and development activities into industry applications. Prior to joining Fujitsu, Hakki worked in various senior positions at Bell Laboratories and Alcatel-Lucent, and was a member of the Alcatel-Lucent Technical Academy for several years. He is also an adjunct professor of computer science and electrical engineering at Southern Methodist University, Dallas,

Texas. He has authored and co-authored a total of 19 patents in telecommunications and other communications networking technologies, as well as contributing to numerous technical articles, lectures, and presentations to the technical community. He is actively involved in the Communications Society of Institute of Electrical and Electronic Engineers (IEEE), Open Networking Foundation (ONF), and is an MEF Carrier Ethernet Certified Professional (MEF-CECP).

Dr. Cankaya holds a Master's degree in computer science and a Ph.D in computer engineering from Southern Methodist University.