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Selected Areas in Communications Symposium
Access Networks and Systems Track

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Selected Areas in Communications Symposium- Access Networks and Systems Track
Globecom 2017
http://globecom2017.ieee-globecom.org/
December 4-8, 2017, Singapore

Important dates
Submission Deadline: 1 April 2017
Notification of Acceptance: 25 July 2017
Camera Ready Papers: 4 September 2017

Scope

Access Networks and Systems continue to be one of the most active fields of telecommunication research and development in recent years. Variety of technologies and services came together to create technological challenges in the access domain. Advances in Voice over IP (VoIP), IPTV, conventional and high-definition video, and multimedia have significantly impacted the access segment of service-provider networks. Moreover, many access lines today terminate on multiple home devices. This led to a need for home networks that are designed for a blend of multi-computer Internet access, multi-platform entertainment, and voice support. The evolution towards multi-service platforms and the emergence of a spectrum of new IP-based applications are fueling more demand for bandwidth. As service providers, Telcos and Cable MSOs alike, face the challenge of triple and quadruple play delivery (voice, data, and video to end customers; over wired and wireless networks), researchers in both academia and industry must develop innovative solutions to tackle this challenge.

Broadband access utilizes a variety of transmission media and systems, such as twisted-pair copper based systems (xDSL), coaxial-cable plants, fiber based solutions (passive and active optical networks), wireless systems (Wi-Fi, WiMAX, and cellular technologies), power-lines systems (PLC), and hybrid combinations of these. Various protocols are also required to support both downstream and upstream traffic. Understanding the performance characteristics of all the technological ingredients of tomorrow's access networks/systems is critical for delivering the desired Quality of Service (QoS) to end users.

The aim of the Access Networks and Systems (ANS) Track of the Symposium on Selected Areas on Communications is to provide a forum that brings together scientists and researchers from all over the world to present their cutting-edge innovations 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 ANS Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

- 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
- New technologies and architectures in access and aggregation nodes
- Service convergence and multimedia networks
- Quality of Service (QoS): characterization and provisioning
- Access network survivability and security
- Municipal and community networks
- Power Line Communication (PLC)
- Home Networks
- Networked appliances
- Applications (video streaming/IPTV etc.)
- Synchronization (time & frequency) support in the access
- Billing and management aspects
- Standardization

Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline 1 April 2017 for publication in the IEEE GLOBECOM 2017 Conference Proceedings. All submissions should be written in English with a maximum paper length of Six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with over length page charge if accepted).

Standard IEEE Transactions templates for Microsoft Word or LaTeX formats found at
http://www.ieee.org/portal/pages/pubs/transactions/stylesheets.html

Only PDF files will be accepted for the review process and all submissions must be done through EDAS at
http://edas.info/

Track chair:

- **Mamoun Guenach** Nokia Bell Labs. Email: guenach@ieee.org

Biography:

Mamoun Guenach joined Nokia Bell Labs in 2006 where he has been continuously working on advanced wired communication systems both in broadband access as well as in access and aggregation nodes.

He received the degree of engineer in electronics and communications from the Ecole Mohamadia d'Ingénieurs in Morocco. Following that, he moved to the faculty of applied sciences at the Université Catholique de Louvain (UCL) Belgium, where he received an M.Sc. degree in electricity and a Ph.D. degree in applied sciences. Since 2015 he has been a part-time visiting professor at Ghent University.

Dr. Guenach published several conference and journal papers, patents and standardization contributions. He actively participated in the TPC of several conferences. Currently he is associate editor in IEEE Transactions on Communications handling papers on 'High-Speed DSL and Wired Communications'. His main research interests include coding, modulation, vectoring and energy efficiency in high-speed wired communication systems.