



## Call for Papers

10<sup>th</sup> International Workshop on

# Broadband Wireless Access (BWA 2014)

In conjunction with IEEE GLOBECOM 2014, 8-12 December 2014, Austin, USA

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### Scope and Objectives:

The last decades brought an exponential increase in needs of internet access and traffic volume. This will continue with predictions on traffic growth by about a 1000-fold increase by 2020. Hence, wireless communication networks and mobile user behavior are permanently evolving. In the current revolution of the Internet and 5G networks, people and smart objects live connected in smart environments. With the emergence of new applications and the development of communication scenarios wireless connectivity will be required anywhere and at any time. Furthermore, most of the devices requiring wireless access are becoming more and more subject to constraints in latency or power consumption. New communication scenarios exploiting proximity of wireless devices and context awareness are gaining increasing attention. Typical examples of new scenarios are device-to-device communication and computation offloading to near devices. In these contexts, new challenges occur for defining more efficient, higher speed and low cost radio technologies, architectures, and mechanisms for Broadband Wireless Access (BWA). The 10th BWA workshop will be a progression of the previous successful editions providing an opportunity for discussing and exchanging information about novel propositions, research results, and practical experiences in the BWA domain. This full day workshop will cover a broad range of topics including, but not limited to, those listed below:

#### Novel application and communication scenarios for BWA

Novel models for traffic, mobility, signal propagation, and multi-storied dwelling and context aware communication.

#### Novel physical layer transmission and reception techniques

New waveforms, non-orthogonal multiple access schemes, PHY concepts facilitating MTC and direct device-to-device (D2D)

#### Novel MAC design for BWA

Flexible and programmable MAC, collaborative and cooperative MAC schemes, MAC for user/control plane split, MAC for centralized/decentralized schemes

#### Further evolution of multi-antenna and cooperative communications

Massive MIMO, interference alignment techniques, full-duplex radio

#### Management of dense, heterogeneous and complex networks

Interference and mobility management, Integration of cloud services in HetNets, Service and energy management for cloud based HetNets

#### Novel forms of spectrum access and usage

Cognitive and dynamic spectrum management techniques, backhaul access links technologies, Energy efficiency trade-offs, resource allocation techniques for HetNets

#### Novel BWA architecture concepts

Architectures for B4G networks and RAN, cross-layer optimization techniques, QoS/QoE management, cellular network congestion management schemes

#### Pragmatic assessment and experimental evaluation of BWA concepts

Lab-/field trial results and their comparison to simulation and stochastic geometry based analysis

Economical assessment of BWA concepts

### Submission Guidelines:

Papers should follow the 2-column IEEE conference template and not exceed 6 pages, and be submitted through the EDAS paper submission website. Accepted papers will be available at IEEEExplore. At least one author of accepted papers is required to register at the full registration rate.

### Important Dates:

**Paper submission:** July 15, 2014 (tentative deadline)

**Author notification:** Sept. 1, 2014 (tentative deadline)

**Camera-ready manuscript:** Oct 1, 2014 (tentative deadline)