

Call for Papers

9th International Workshop on Broadband Wireless Access

December 9th 2013, in conjunction with IEEE GLOBECOM 2013, Atlanta, USA

In the next decade, we will not only see an exponential increase in the demand of wireless broadband capacity, with predictions on traffic growth ranging from x100 to x1000, but we will also see a large diversification in the applications and communication scenarios requiring broadband wireless access. With the advent of the Internet of Things, at least an order of magnitude more devices will require wireless connectivity anytime and anywhere with the cloud. On the other hand, it is likely to see more localized and context-aware communication between humans or devices in close proximity, where direct but network-facilitated device-to-device communication will play a bigger role, and where hence the classical function split between the cloud, network infrastructure and devices may have to be rethought. The question arises whether the evolution of current standards such as LTE-Advanced is sufficient to address these needs, or if more radical, possibly non-backward compatible approaches are needed.

The 9th Broadband Wireless Access full day workshop will provide a forum for the exchange and discussion of new research results and for the pragmatic assessment of the usage of innovative technologies in the broadband wireless access domain. It will cover a broad range of topics including, but not limited to, those listed below:

Novel application and communication scenarios

Traffic and mobility models, propagation models for novel deployment scenarios, edge computing, context and application-aware communication

Novel physical layer techniques

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

Novel MAC design for broadband wireless access

Flexible and programmable MAC design, 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 communications, interference alignment techniques, full-duplex radio

Management of dense, heterogeneous networks

Novel interference and mobility management concepts, possibly incorporating MTC or D2D communications, novel cell concepts, e.g. regarding user/control plane split

Novel forms of spectrum access and usage

Cognitive and dynamic spectrum management techniques, mm-Wave for backhaul and access links, dynamic and opportunistic carrier aggregation schemes

Novel broadband wireless access architecture concepts

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

Pragmatic assessment / experimental concept evaluation

Lab- / field trial results and their comparison to simulation and stochastic geometry based analysis, economical assessment of broadband wireless access concepts

IMPORTANT DATES:

Paper submission: **July 7th, 2013**
Author notification: **Sept. 1st, 2013**
Camera-ready manuscript: **Oct 1st, 2013**

PAPER SUBMISSION:

Papers should follow the 2-column IEEE conference template and not exceed 6 pages (1 additional page is possible for an overlength fee of \$100 due upon paper acceptance), and be submitted through EDAS (www.edas.info → Submit paper → GC13 WS – BWA). Accepted papers will be published on IEEEExplore. At least one author per accepted paper must register at the full workshop rate.

GENERAL CHAIRS:

Dr. Patrick Marsch, Nokia Siemens Networks, Poland
Dr. Andreas Maeder, NEC Laboratories Europe, Germany

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Dr. Arun Ghosh, AT&T Labs, USA
Prof. Giridhar K, IIT Madras, India
Dr. Peter Fertl, BMW Group Research & Techn., Germany

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FURTHER INFORMATION: <http://bwaws.org/GLOBECOM2013>