

8th IEEE WORKSHOP ON BROADBAND WIRELESS ACCESS (BWA)
Full-day workshop, collocated with IEEE GLOBECOM 2012, December 2012,
<http://bwa2012.dii.unisi.it>

AIMS AND TOPICS:

Internet access is undergoing a fundamental change. Users expect to access through different wireless devices and access technologies a diverse range of services and applications anytime, anywhere. Driven by a new generation of devices (smart phone, netbook, etc.), capacity demand increases faster than spectral efficiency improvement, in particular at hot spots/areas. However, the huge increase in demand cannot easily be met by current radio access systems. Hence, there is a need for more powerful, more efficient, higher speed, lower cost radio technologies and architectures for *Broadband Wireless Access* (BWA).

There is significant effort within the community to develop more advanced BWA technologies - activities span the wireless domain, ranging from more advanced antenna technologies and cooperative relays, to mesh networking systems and many more: future networks will likely employ some mix of these different mechanisms. New BWA standards are now available, such as LTE-A and IEEE 802.16m. The 8th BWA full day workshop will continue the success of the [previous editions](#), providing a forum for the exchange and discussion of new research results and practical experiences working with innovative technologies in the BWA domain. This full day workshop will be interested to a broad range of topics including, but not limited to, those listed below.

- Incumbent and Future BWA Technologies, UMTS, HSPA, LTE, LTE-A, 802.16x
- Self-Configuring and Self-Optimizing Networks
- Repeater, Mesh, Relay, Femto and Pico Base Station based Solutions Vehicular Networks
- Radio Resource Management, Admission Control, Power Control and Scheduling
- QoS and QoE in Mobile and BWA Networks
- Cross-Layer Optimization Concepts and Experimental Evaluation
- Multi-Antenna Technologies, Beamforming, Antenna Selection, Rank Adaptation, etc.
- Single and Multiuser MIMO Techniques
- Cooperative and Collaborative Networking, Network MIMO
- Interference Mitigation, Cancellation, Coordination and Alignment
- Channel Estimation Techniques
- Capacity Planning and Traffic Engineering
- Traffic, Mobility and Channel Models
- Design and Evaluation of Testbeds and Field Trials
- Experiences/Lessons from Recent Deployments
- Interoperability Aspects (Fixed/Mobile LANs/MANs, WANs)
- Micro and Macro Mobility Management
- Multicarrier Operation and Carrier Aggregation
- Spectrum Management, Regulatory Issues
- Cognitive and Dynamic Spectrum Management Techniques
- Broadcasting and Multicasting in BWA Networks
- Green Networking and Energy Efficient Algorithms
- Network Coding and its Applications in Wireless Systems

PAPER SUBMISSION: Submitted papers must represent original material that is not currently under review in any other conference or journal, and has not been previously published. Paper length should not exceed five-page technical paper manuscript. Please see the Author Information page for submission guidelines in the [IEEE GLOBECOM 2012 website](#). The paper should be used as the basis for a 15-20 minute workshop presentation. Papers should be submitted in a .pdf or .ps format by selecting GLOBECOM 2012 at the EDAS paper submission website and then selecting the [workshop submission link](#). All submitted papers will be reviewed by up to three experts and if accepted, published in the conference proceedings, which will be available at IEEEExplore and registered in Engineering Index (EI). At least one author of accepted papers is required to register at the full registration rate.



GENERAL CHAIRS:

Dr. Giovanni Giambene,
University of Siena, Italy (giambene@unisi.it)
Dr. Vasilios A. Siris, Athens University of
Economics and Business, and FORTH,
Greece

TPC CHAIRS:

Dr. Andreas Maeder, NEC Laboratories
Europe, Germany
Prof. Rajev Shorey, NIIT University, India

PUBLICITY CHAIRS:

Dr. Giridhar Mandyam, Qualcomm, USA
Dr. Boris Bellalta, Universitat Pompeu
Fabra, Spain

STEERING BOARD:

Prof. Thomas Michael Bohnert, Zurich
University of Applied Sciences, Switzerland
Dr. Dirk Staehle, DOCOMO Euro-Labs,
Germany
Dr. Gabor Fodor, Ericsson Research,
Sweden

IMPORTANT DATES:

Paper submission: 15 June 2012
Author notification: August 15, 2012
Camera-ready manuscript: Sept. 15, 2012