

Broadband Wireless Access Symposium

International Wireless Communications & Mobile Computing Conference

June 28-July 2, 2010, Caen, France

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Scope

Broadband access such as WiMAX/WiBro is a rapidly emerging wireless technology that provides connectivity to the data services the same way cellular phone infrastructure does to voice services. WiMAX/WiBro offers data rates similar to those obtainable via DSL and Cable, which enables high-speed connectivity to support various services and applications with different QoS requirements, such as data, video/audio live multimedia streaming, and mobile TV. To ensure its success, WiMAX/WiBro technology must deliver significantly better performance than those currently-available technologies, such as Wi-Fi and 3G/cellular. For this to happen, there are several key technical challenges that must be addressed, such as mobility and handover support, service multiplexing, reliability, QoS, spectral efficiency, and security robustness. This symposium seeks papers describing research contributions that address and study the above challenges, ranging from theory to practice, from architecture to algorithms, and from policy to management. Technical papers describing original, previously unpublished research (not currently under review by another conference or journal) that address current challenges related to broadband/WiMAX/WiBro are solicited. Topics include, but not limited to:

- QoS support for Broadband/WiMAX/WiBro: techniques, algorithms, and management
- Multimedia and VoIP over Broadband/WiMAX/WiBro
- Architecture and algorithms for seamless connectivity/handoff between broadband and cellular
- Performance analysis and optimization
- Application platforms and Middleware
- OFDM/OFDMA techniques for WiMAX/WiBro PHY architecture
- MIMO techniques for WiMAX/WiBro
- Networking and network architecture
- MAC and multiple access techniques
- Cross-layer designs and techniques
- Energy aware protocols and techniques
- Security for Broadband/WiMAX/WiBro

Submission Guidelines

Authors are invited to submit original papers of no more than 5 pages (standard IEEE proceedings, two-column, 10 pt font, etc.), including figures, tables, and references, in PDF format. Accepted papers will be published in the IWCMC10 conference proceedings, which will be included in IEEE Xplore. Submission implies that at least one of the authors will register and present the paper at the conference. Electronic submission is accepted through the EDAS web site at <http://www.edas.info/>.

Important Dates

Paper submission deadline: Dec. 15, 2009
Paper acceptance notification: March 15, 2010
Camera-ready paper submissions: April 1, 2010
Author registration: April 1, 2010
Conference date: June 28-July 2, 2010

Symposium Chairs

Prof. Bechir Hamdaoui, Oregon State Univeristy, USA, hamdaoui@eecs.oregonstate.edu

Dr. Jayakrishnan Mundarath, Freescale Semiconductor Inc., USA, jcmundarath@ieee.org

Technical Program Committee Members

TBA