

CALL FOR PAPERS

International Workshop on Advanced Wireless Access Technologies for IMT-A (IWATA)

Nov. 1, 2009, Hong Kong, China

in conjunction with AccessNets09, Nov. 1-3, 2009

Workshop Technical Program Committee

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Scope and Topics

The fourth generation (4G) of mobile communication system, IMT-Advanced (IMT-A), is approaching rapidly. With the deployment of 3.9G systems (e.g., LTE and WiMAX) in progress, ITU-R is now focusing on the standardization of 4G, or IMT-A. Some key wireless access technologies have been identified for IMT-A, such as carrier aggregation, enhanced MIMO technologies, coordinated multi-point transmission and reception, and relay. This workshop aims to be a platform for international experts to present and exchange their novel ideas on the advanced wireless access technologies for IMT-A. The topics of the workshop papers will include but are not limited to the following:

1. Advanced wireless access with carrier aggregation

- random access schemes
- asymmetric carrier aggregation in UL and DL
- synchronization, channel estimation, effect of Doppler shifts
- signaling design, etc.

2. Enhanced MIMO technologies

- precoding schemes with limited feedback
- nonlinear MIMO signal detection algorithms
- joint antenna and baseband MIMO processing
- network MIMO, multi-stream beamforming, etc.

3. Coordinated multi-point transmission and reception

- transmission schemes
- multi-user detection, inter-cell interference cancellation
- effect on the system structure, X2 interface, higher layer protocol, etc.

4. Relay

- system design with relay, performance evaluation
- relay with network coding
- resource management in relay networks, etc.

5. Other advanced wired/wireless access technologies

- green radio
- self-organized networks, etc.

Paper Submission

Please visit the Paper Submission page on AccessNets'09 website for detailed instructions. (<http://www.accessnets.org/2009/submission.shtml>). Selected high quality papers will be considered for the special issue of IEEE System Journal. Further details can be found in the conference website (<http://www.accessnets.org/2009/cfp.shtml>).

Important dates:

Paper submission due (extended): Aug. 1, 2009 Notification of acceptance: Aug. 15, 2009
Camera-ready manuscript due: September 15, 2009

Workshop Co-Chairs

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Prof. Jiangzhou Wang, University of Kent, United Kingdom

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