



1st International Workshop on the Performance Enhancements in MIMO-OFDM Systems (PEMOS-2010)

October 2010, Niagara Falls, Canada

In conjunction with

The 6th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2010) October 11-13, 2010, Niagara Falls, Canada
(<http://conferences.computer.org/WiMob2010>)

Purpose and scope

Orthogonal frequency division multiplexing (OFDM) is a promising modulation technique for high data rate wireless transmission. OFDM combined with multiple antennas at the transmitter and receiver (i.e., MIMO) to increase the diversity gain and/or to enhance the system's performance on time-variant and frequency-selective fading channels, resulting in a MIMO-OFDM configuration. Combining both techniques enables to enhance the overall performance. This workshop brings together academics and active research and development professionals working in the field of wireless communication's optimization to promote exchange of research ideas and possible collaboration. Audience will be exposed to many performance optimizations in MIMO-OFDM systems and will be able to recognize the impact of such enhancement on the reliability and the efficiency of the standard MIMO-OFDM communication system. .

PEMOS 2010 will introduce the research community (industry, academia, and Government) to the up-to-date research in the area of MIMO-OFDM wireless communication systems and promote team collaboration among organizations having relevant expertise to execute an advanced research in this area.

TOPICS

The workshop will be organized as a one-day event comprising of several technical sessions. This workshop provides an international forum for the research community in the MIMO-OFDM research areas. Topics of interest include, but are not limited to:

- Smart antennas for MIMO systems
- Synchronization and channel estimation
- Interleaving and channel diversity for OFDM systems
- Capacity of MIMO-OFDM systems
- Cooperative resource allocation and techniques
- MIMO channel coding
- 3G-4G migration, convergence and interworking
- WiFi, WiMAX, 3GPP LTE

Important dates

Full Papers due:	May 16, 2010
Notification of Acceptance:	July 16, 2010
Camera-ready Manuscripts due:	July 30, 2010
Workshop date:	October 11, 2010

All accepted papers will be included in the WiMob 2010 main conference proceedings and published by the IEEE.

Full conference registration will allow the authors of accepted papers to attend the main conference and any organized workshop. The workshop paper will need to have at least one author registers at the conference.

Authors of selected outstanding papers will be invited to submit extended versions of their papers for consideration of publication in the International Journal of Wireless Communication and Simulation (IJWCS) <http://www.rpublication.com/ijwcs.htm>