

# Second Multiuser MIMO Industry Course

organized by the FP6-IST project



ITG/IEEE Workshop on Smart Antennas (WSA 2009)

Berlin, Germany

<http://www.mk.tu-berlin.de/wsa2009>

Monday February 16, 2009

[www.ist-mascot.org](http://www.ist-mascot.org)

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## **Announcement**

The wireless industry has started to integrate MIMO techniques into existing multiuser cellular standards and to define new cellular standards based on MIMO. The goal of this second industry course is to provide an introduction and overview of state-of-the-art research in multiuser MIMO. For selected topics we will provide background material as well as new results that have been obtained within the MASCOT project.



# Multiuser MIMO Industry Course II

Monday February 16, 2009

09:00 **Martin Schubert, HHI, Berlin**

Welcome message

09:10-10:25 **Ezio Biglieri, UPF, Barcelona**

”Some problems in wireless communication where, among the things one does not know, is the number of things one does not know: Multiuser detection with an unknown number of active users, multipath channel estimation on OFDM and MIMO-OFDM, and neighbor discovery in wireless networks.”

Coffee break

10:55-12:10 **Joakim Jalden, TU, Vienna**

“MIMO detection and demodulation”

Lunch break

13:30-14:45 **Erwin Riegler, ftw., Vienna**

“Capacity limits for MIMO fading channels”

Coffee break

15:15-16:30 **Martin Schubert, HHI, Berlin**

“Interference and Resource Allocation in Wireless Systems”

Closing 16:30