



UNIVERSIDAD
POLITECNICA
DE VALENCIA

COST2100 and COST IC0603 ASSIST Joint Workshop

**"Multiple Antenna Systems on Small Terminals"
(Small and Smart)**

Valencia, Spain, May 20, 2009

WORKSHOP PROGRAM

Opening Session

- 09.00 - 09.10 *Short Introduction (COST2100 and COST IC0603)*
¹Buon Kiong Lau and ²Markus Böck
¹Lund University, Lund, Sweden
²European Aeronautic Defence and Space Company, Ulm, Germany
- 09.10 - 10.00 *Antenna Technologies for Compact MIMO Terminals (Invited)*
^{*1}Dr Naoki Honma and ²Kentaro Nishimori
¹Iwate University, Iwate, Japan
²NTT Corporation, Kanagawa, Japan

Session 1 – "Compact Multiple Antenna Design" - Chair: Alain Sibille

- 10.00 – 10.30 *Multiple Element Antenna Design Considerations for Compact Multi-band Wireless Transceivers (COST IC0603)*
^{*1}Marek Bialkowski, ²Pawel Kabacik, and ²Robert Hossa
¹University of Queensland, Australia
²Wroclaw University of Technology, Poland
- 10.30 - 11.00 Coffee Break
- 11.00 - 11.30 *UWB MIMO Antenna with Reduced Mutual Coupling (COST2100)*
^{*1}Ali Imran Najam, Yvan Duroc, and Smail Tedjini
Grenoble-INP LCIS, France
- 11.30 – 12.00 *MIMO Performance of Diversity-Rich Compact Six-Port Dielectric Resonator Antenna Arrays in Measured Indoor Environments at 2.65 GHz (COST2100)*
^{*1}Ruiyuan Tian, ^{1,2}Vanja Plicanic, ¹Buon Kiong Lau, ¹Jonas Langbacka, and ²Zhinong Ying
¹Lund University, Lund, Sweden
²Sony Ericsson Mobile Communications AB, Lund, Sweden

Session 2 – “Perspectives on Compact MIMO Systems” – Chair: Gert F. Pedersen

- 12.00 – 12.30 *Demystifying MIMO in practice (COST IC0603)*
*David A. Sánchez-Hernández
EMITE Ing, Murcia, Spain.
- 12.30 – 13.30 Lunch
- 13.30 – 14.00 *The role of the degrees of freedom of the field in unconditionally secure wireless communications (COST IC0603)*
*Marco Donald Migliore
University of Cassino, Italy.

Session 3 - “Multiple Antenna Evaluation” - Chair: Markus Böck

- 14.00 – 14.30 *Mutual coupling in UWB compact arrays (COST2100)*
*Raffaele D'Errico and Alain Sibille
ENSTA-ParisTech, Paris, France
- 14.30 – 15.00 *Analysis of user impact on interference between two 4x4 MIMO links at 5 GHz (COST2100)*
*¹Tim Brown, ²Gert F. Pedersen, and ²Patrick C. F. Eggers
¹University of Surrey, UK
²Aalborg University, Denmark.
- 15.00 – 15.30 Coffee Break
- 15.30 – 16.00 *Fast, Repeatable and Cost Effective Multi-Antenna Measurements Using Single or Dual Reverberation Chambers (COST IC0603)*
*Mats Andersson, Charlie Orlenius and Magnus Franzén
Bluetest AB, Gothenburg, Sweden.
- 16.00 – 16.30 *MultiPort Antenna Evaluator (COST IC0603)*
*Jan Carlsson
Technical Research Institute of Sweden, Borås, Sweden.

NB. * indicates the presenter of the paper