

IEEE International Workshop on

Electronics, Control, Measurement, Signals and their application to Mechatronics

Toulouse, France, June 24th-26th 2013

Computer Engineering, Electronics, Information Sciences and Mechanical Engineering are the essential disciplines in Mechatronics and Robotics leading to powerful, compact and ever smarter systems. Their evolution relies on progress in all these complementary scientific and technological fields.



This workshop provides an international forum for the exchange of ideas, discussion on research results and the presentation of theoretical and practical applications in these domains. This event is the expression of the shared ambition on the part of the Toulouse University (France) and the Liberec Technical University (Czech Republic) to publically present their common scientific research.

The first edition was organized in 1993 (1993-Electro Workshop) in Liberec and its biennial form has led to the celebration of the 10th anniversary in 2011 (ECMS2011). The University of Mondragon (Spain) has joined the organization team in 2009. Due to the constant evolution, ECMS became an international event in 2011 (involving 10 countries). Since that time, the ECMS workshop has been co-sponsored by the Technical Council on VLSI (TCVLSI) of the IEEE Computer Society.

The next ECMSM Workshop will take place in Toulouse, in the Engineering School ENSEEIHT, from June 24th to June 26th 2013. The organization relies on the cooperation of several Universities on the technological place of Toulouse such as the Paul Sabatier University (Université Paul Sabatier) and the National Polytechnic Institute of Toulouse (Institut National Polytechnique de Toulouse).

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TOPICS

T01: INTEGRATED CIRCUITS	T02: COMPUTER AND CONTROL SYSTEMS
TOTAL TESTETIES CIRCUITS	

T01-1 Dependability of Electronic Equipment **T02-1** Electrical Drives (Reliability, BIST, DfT...)

T01-2 Analog / Hybrid design (ASIC, FPGA, CPLD...)

T01-3 New technologies (SoC, NoC, RF design, System design)

T01-4 Networking and operating systems

T01-5 Power electronic integration

T01-6 Equipment compatibility, EMC

T01-7 Student projects and teaching programs

T02-2 Control, optimal control (Optimal consumption,

Simultaneous Localization And Mapping...)

T02-3 Decisional and functional autonomy (Range extender control method...)

T02-4 Student projects and teaching programs

T03: INFORMATION AND SIGNAL PROCESSING

T03-1 Signal and Data Processing: (Speech, Audio, Video, Image)

T03-2 Signal Acquisition: Electrical and Acoustical Measurement

T03-3 Fault detection and Diagnosis in Mechatronic Systems

T03-4 Student projects and teaching programs

T04: MECHATRONIC AND ROBOTIC SYSTEMS

T04-1 Robotics and autonomous systems: theory (perception, localization, SLAM...) and applications (navigation, humanoid robots, UAV...)

T04-2 Smart devices, Intelligent Materials

T04-3 Actuation

T04-4 Sensors and Measurement

T04-5 Student projects and teaching programs

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