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ECMSM 2019

14th International Workshop IEEE

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



June 24th-26th 2019

Toulouse, FRANCE

Our
Institutions



Partner
Laboratories



ECMSM 2019

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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, discussions on research results and the presentation of theoretical and practical applications in these domains.

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PROGRAM CHAIR AND VICE CHAIR

Dr. Clément NADAL (F)

Dr. Viviane CADENAT (F)

CONTACT

ecmsm2019@inp-toulouse.fr

+33 (0)5 34 32 31 12

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TOPICS

INTEGRATED CIRCUITS

1. Dependability of electronic equipment (Reliability, BIST, DfT...)
2. Analog / Hybrid design (ASIC, FPGA, CPLD...)
3. New technologies (SoC, NoC, RF design, System design)
4. Networking and operating systems
5. Power electronic integration
6. Equipment compatibility, EMC

COMPUTER AND CONTROL SYSTEMS

1. Electrical drives
2. Control (adaptive control, robust, nonlinear...), optimal control (H2/Hinfinity techniques, variational methods...)
3. Embedded systems, decisional and functional autonomy

INFORMATION AND SIGNAL PROCESSING

1. Signal and data processing: speech, audio, video, image
2. Signal acquisition: electrical and acoustical measurement
3. Fault detection and diagnosis in mechatronic systems

MECHATRONIC AND ROBOTIC SYSTEMS

1. Robotics and autonomous systems: theory (perception, localization, environment modeling, SLAM...) and applications (navigation, medical robotics, micro-robotics, humanoid robots, UAV...)
2. Smart devices, intelligent materials
3. Actuation
4. Sensors and measurement

SPECIAL SESSION IN IMAGERY IN MECHATRONICS

1. Signal processing for imagery (detection, recognition, multiband processing...)
2. Real time machine vision
3. Digital circuit design
4. Cameras and hardware environment
5. Student projects and teaching programmes

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