



Université
de Toulouse



CALL FOR PAPERS

2023 IEEE International Workshop of Electronics, Control, Measurement, Signals and their application to Mechatronics (15th IEEE ECMSM-2023, ID: #56741)

April 24th – 26th, 2023 **Organized by:**

University of Mondragon

*University of Mondragon, Faculty of Engineering,
IEEE, Industry and Applications Society*

**Donostia-San Sebastian,
Spain**

*In collaboration with the **Technical University of Liberec**,
and the **University of Toulouse***

Computer Engineering, Electronics, Information Sciences, and Mechanical Engineering are the essential disciplines in Mechatronics and Robotics, leading to robust, compact, and ever more intelligent systems. Those fields are impacting the new industrial 4.0/5.0 arena, and their evolution relies on progress in all these complementary scientific and technological fields. The IEEE-International Workshop of Electronics, Control, Measurement, Signals and their application to Mechatronics (ECMSM) provides an excellent international forum for exchanging ideas on research results and presenting theoretical and practical applications in these fields. The ECMSM is the expression of the shared ambition of the Technical University of Liberec (Czech Republic), the University of Toulouse (France), and Mondragon University (Spain) to push forward these research fields. The IEEE ECMSM international workshop has always been encouraging contributions by and exchanges between senior and junior scientists. This edition wishes to identify strategies, technologies, and methods that address sustainability issues.

MAIN TOPICS:

INTEGRATED CIRCUITS

Dependability of electronic equipment; Analog/Hybrid design; New technologies; Networking and operating systems; Power electronic integration; Electrical Drives; Equipment compatibility; EMC.

COMPUTER AND CONTROL SYSTEMS

Artificial Intelligence; Machine learning; Optimal control; Embedded systems; Decisional and functional autonomy.

INFORMATION AND SIGNAL PROCESSING

Image Processing; Signal Acquisition and Processing; Fault detection and diagnosis in mechatronic systems.

MECHATRONIC AND ROBOTIC SYSTEMS

Robotics and autonomous systems: theory and applications; Smart devices, Intelligent materials, Actuation; Sensors and measurement.

SUBMISSION OF PAPERS

The working language of the conference is **English**. Prospective authors are invited to submit a full paper (max. six pages), including authors' names, affiliations, mailing addresses, and e-mail, via the conference website. The paper will follow a peer-reviewing process. Selected papers can be published in IEEE Transactions on Industrial Applications.

PAPER ACCEPTANCE

Each accepted paper has to be presented by one of the authors at the conference. Only accepted and presented papers will be published in IEEE Xplore.

IMPORTANT DATES

Full paper submission: 16th Dec 2022
Full paper acceptance notification: 10th Feb 2023
Registration opening: 10th Feb 2023
Final paper submission deadline: 24th Feb 2023
Final acceptance notification date: 10th Mar 2023
Early registration deadline: 17th Mar 2023

STEERING COMMITTEE CHAIR

François PIGACHE (FR)

STEERING COMMITTEE

Nestor ARANA AREXOLALEIBA (ES)
Viviane CADENAT (FR)
Josef ČERNOHORSKÝ (CZ)
Philippe FILLATREAU (FR)
Philippe JOLY (FR)
Zdeněk PLÍVA (CZ)
Aleš RICHTER (CZ)

CONFERENCE CHAIR

François PIGACHE (FR)

TECHNICAL PROGRAM CHAIR

Miren ILLARRAMENDI (ES)

PUBLICATION CHAIR

Georges ZIZZIS (FR)

CONFERENCE TREASURER

Mila Arregui Ortubay, Ms (ES)

LOCAL ORGANIZING CHAIR

Nestor ARANA-AREXOLALEIBA (ES)

CONTACTS

Conference e-mail: ecmsm@ecmsm.eu

Conference website, Detailed Information, Submission: <https://www.ecmsm.eu/>