



Organized by

**National Institute of Research and Development in Mechatronics and Measurement Technique  
(INCDMTM)**

**Valahia University of Targoviste – Faculty of Materials Engineering, Mechatronics and Robotics**

## **CALL FOR PAPERS**

**Workshop**

### **MECHATRONIC ADAPTRONIC SYSTEMS/ DEVICES FOR CHARACTERIZATION AND CONTROL AT MICRO AND NANO SCALE**

at

**ICSTCC 2013**

**17th International Conference on System Theory, Control and Computing –  
Joint Conference SINTES 17 SACCS 13 SIMSIS 17**

**Sinaia, Romania, 11-13 October 2013**

Mechatronic adaptronic systems/ devices for characterization and control at micro and nano scale – is a field with multiple applications for the present industry. Mechatronics and Intelligent Measurement Technique domain unifies:

- Mechatronics tools and methods: equipments and intelligent mechatronic devices for measurements, industrially integrated (with built-in sensors and transducers), testing and investigation mechatronic equipment;
- Intelligent measurement technique: dimensional control, pressures, temperatures, levels, discharges, masses, forces;
- Intelligent mechatronic installations for investigation, laboratory and environment protection: robotic systems, geophysical research apparatus, seismology, environment's control and monitoring, applications in LabVIEW with mechanical specific, data acquisitions, presentation and statistical processing;
- Medical and biomedical intelligent mechatronic installations: medical instruments for open surgery and laparoscopy, ophthalmologic surgery, orthopaedic surgery, prosthesis elements, electronic medical equipments, intensive therapy equipments;
- Innovative mechatronic technologies, new materials: processing/ microprocessing micro- and nanotechnologies, unconventional processing techniques, hard and super-hard materials;
- Mechatronics technologies for integrated non-contact dimensional control;
- Robots/ microrobots for medical and industrial pyrotechnic applications;
- Micro and nanorobotics systems for movement;
- Mechatronic/ micromechatronic HIGH-TECH systems/ microsystems for positioning and measuring the movements integrated to the technological systems and platforms.

## TOPICS

- intelligent mechatronic control;
- hard and soft-ware structure for mechatronic systems/ devices;
- characterization and control at micro and nano scale;
- applications of the mechatronic adaptronic systems/ devices;
- perspectives.

## IMPORTANT DATES

- June 10, 2013 – Workshop paper submission deadline
- July 15, 2013 – Workshop paper notification
- July 31, 2013 – Workshop authors' registration and camera-ready papers
- October 11-13, 2013 – Workshop under the 17th International Conference on System Theory, Control and Computing

## PAPERS SUBMISSION

Entire article has to be written in MS Word and fall into one of the specific topics of interest of the workshop. All materials must be written in English. The manuscript should not exceed 6 pages and document structure should include: title, author (s), summary (not exceeding 250 words), keywords, introduction, article, acknowledgements, and bibliography. The participants must prepare the full version of their paper following IEEE Conference Submission Standards (<http://css.paperplaza.net/conferences/support/support.php>).

Papers proposals have to be submitted by e-mail to [badita\\_1@yahoo.com](mailto:badita_1@yahoo.com)

Articles that will participate in this workshop will be evaluated by experts in mechatronics, adaptronic, intelligent measurement technique and micro/ nanotechnologies.

Corresponding author of each paper will be notified of results by e-mail.

All accepted papers will be published in the conference proceedings, which will be indexed in IEEE Xplore database. Workshop authors will be required to register to the main conference and present their paper. For publication, at least one author must register for the conference, send timely article and present the work.

## ORGANIZING COMMITTEE MEMBERS

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