



Summer School on Micro- and Macro Mechanisms Design in Mechatronics and Robotics 2014

July 13, 2014 - July 20, 2014
University Politehnica Timișoara, Romania,
Mechatronics Department



Committee

Chair

Erwin-Christian LOVASZ (Romania)

Co-chairs

Burkhard CORVES (Germany)

Victor PETUYA (Spain)

Local organising committee at UPT

Inocențiu MANIU

Iosif CĂRĂBAȘ

Corina Mihaela GRUESCU

Valentin CIUPE

Dan MĂRGINEANU

Fees

The fee is 350 Euros. It comprises attendance to lectures, summer school materials, participation at workshops, accommodation in UPT Student Guest House in double rooms (7 days breakfast included), daily lunch and dinner, excursion, social events.

Accommodation

For the Summer School, the local organization team provides the following option for accommodation. The participants to the MMMDMR 2014 Summer School are invited to reside in the students' guesthouse, therefore taking benefit of the location together as a group and of lower costs too. The dormitory can host two persons. Each floor has two shared bathrooms, kitchen and laundry. Rooms are equipped with internet, TV cable, sink and refrigerator. Each building is protected by video surveillance systems

Support

The Summer School on Micro- and Macro Mechanisms Design in Mechatronics and Robotics 2014 is supported by the University Politehnica Timișoara and the Technical Committee "Linkages and Mechanical Controls" of the International Federation for the Promotion of Mechanism and Machine Science IFTToMM. The event develops under the patronage of IFTToMM, which **offers 4 grants for young delegates (250 USD each) – for Europe and 1 grant for young delegates (500 USD) – for Asia or America (more information on website <http://summerschool-2014.mec.upt.ro/>)**.

Topics

The summer school addresses to master and PhD students, young researchers or specialists working in micro- and macro mechanisms design used in robotics and mechatronics and who seek to broaden their methodological skills.

The summer school will comprise the following topics:

1. Walking machines and their biological inspirations

Lecturer: Prof. Teresa ZIELIŃSKA,
Warsaw University of Technology, Poland

2. Mechanisms design used in mechatronic applications

Lecturer: Prof. Burkhard CORVES
RWTH Aachen University, Germany

3. Machine design and error compensation for precise machine system

Lecturer: Prof. Takaaki OIWA,
Shizuoka University, Japan

4. Design of bolted joint and prevention against its loose

Lecturer: Prof. Takaaki OIWA,
Shizuoka University, Japan

5. Mechanism designs for robots: structures, performance, and applications

Lecturer: Prof. Marco CECCARELLI,
University of Cassino, Italy

6. Analysis, simulation and synthesis of planar linkages

Lecturer: Prof. Victor PETUYA,
University of the Basque Country, Spain

7. Developments of Gearless Reducers with Rolling Elements

Lecturer: Prof. Hidetsugu TERADA,
University of Yamanashi, Japan

8. Motion Planning Approach of a Multi-arm Robot for Flexible Material Operations

Lecturer: Prof. Hidetsugu TERADA,
University of Yamanashi, Japan

9. Mechanism Design for Surgical Robotics

Lecturer: Prof. Chin-Hsing KUO,
National Taiwan University of Science and Technology, Taiwan

Registration

Please fill in the registration form and send it until 31 January 2014 to: erwin.lovasz@mec.upt.ro

The number of participants is limited to 30. Acceptance will be according to the registration date.

Method of payment

Payment in EURO free of any charges to the beneficiary should be made by bank transfer to:

Account holder/institution name:

Universitatea Politehnica Timisoara

Address: Pta Victoriei no. 2, 300006 Timisoara, Romania

VAT registration number of the institution: RO4269282

Bank name: BCR Timisoara, Sucursala Bastion

Bank address: Pta Sf.Gheorghe no.1, 300085 Timisoara, Romania

Swift code: RNCBROBU

Account number (IBAN):

RO33RNCB0255008330450002

Summer School Location

The Summer School will be held at the Mechanical Engineering Faculty, Mechatronics Department of the University Politehnica Timișoara,

Address: 1 Bv. Mihai Viteazu, Timișoara, 300222,

<http://summerschool-2014.mec.upt.ro/>