



# **MMKR 2012**

## **Summer School on Models and Methods in Kinematics and Robotics 2012**

July 01 - 08, 2012

Univers T Hotel, 53-55 Al. Vaida Voevod, Cluj-Napoca

**Organized by**

**Technical University of Cluj-Napoca  
Faculty of Machine Building  
Center for Industrial Robots Simulation and Testing  
CESTER**

# **FINAL PROGRAM**



## Chair

Doina Pisla (Romania)

## Conference Co-Chairs

Manfred Husty (Austria)  
Doru Talaba (Romania)

## Local Organising Committee

Doina Pisla  
Adrian Pisla  
Calin Vaida  
Bogdan Gherman  
Andras Szilaghyi  
Alin Stoica

**Website:** [www.cester.utcluj.ro/mmkr.html](http://www.cester.utcluj.ro/mmkr.html)

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# Program

## Sunday, July 1, 2012

Arrival of participants
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## Monday, July 2, 2012

8.00 - 8.30	Registration
8.30 - 9.00	<b>Opening Ceremony</b>
9.00 - 10.50	Surgical Robotics, New Design and Applications, Prof. Hannes Bleuler, EPFL Lausanne, Switzerland
10.50 - 11.00	Coffee break
11.00 - 12.50	Rehabilitation and Assisting Robotics for Lower and Upper Limbs, Dr. Mohamed Bouri, EPFL Lausanne, Switzerland
12.50 - 14.00	Lunch
14.00 - 15.50	Theory and Practice of Haptic Control Strategies, Dr Laura Santos, Dr Mohamed Bouri, EPFL Lausanne, Switzerland
15.50 - 16.00	Coffee break
16.00 - 17.50	Brain Computer Interface for Robot Planning, Haptic Prototyping, Prof. Doru Talaba, Transilvania University of Brasov, Romania
17.50 - 18.30	Discussions

## Tuesday, July 3, 2012

9.00 - 10.50	Brain Computer Interface for Robot Planning, Haptic Prototyping, Prof. Doru Talaba, Transilvania University of Brasov, Romania
10.50 - 11.00	Coffee break
11.00 - 12.50	Brain Computer Interface for Robot Planning, Haptic Prototyping, Prof. Doru Talaba, Transilvania University of Brasov, Romania
12.50 - 14.00	Lunch
14.00 - 15.50	Modelling (Kinematic and Kinetostatic) of Human Joints with Particular Emphasis on the Knee and Ankle , Prof. Vincenzo Parenti-Castelli, University of Bologna, Italy
15.50 - 16.00	Coffee break
16.00 - 17.50	Modelling (Kinematic and Kinetostatic) of Human Joints with Particular Emphasis on the Knee and Ankle , Prof. Vincenzo Parenti-Castelli, University of Bologna, Italy
17.50 - 18.30	Discussions

**Wednesday, July 4, 2012**

9.00 - 10.50	Modelling (Kinematic and Kinetostatic) of Human Joints with Particular Emphasis on the Knee and Ankle , Prof. Vincenzo Parenti-Castelli, University of Bologna, Italy
10.50 - 11.00	Coffee break
11.00 - 12.50	Kinematics of Wire-driven Parallel Robots, Prof. Jean-Pierre Merlet, INRIA Sophia Antipolis, France
12.50 - 14.00	Lunch
14.00 - 15.50	Kinematics of Wire-driven Parallel Robots, Prof. Jean-Pierre Merlet, INRIA Sophia Antipolis, France
15.50 - 16.00	Coffee break
16.00 - 17.50	Kinematics of Wire-driven Parallel Robots, Prof. Jean-Pierre Merlet, INRIA Sophia Antipolis, France
17.50 - 18.30	Discussions

**Thursday, July 5, 2012**

9.00 - 10.50	Kinematics of Wire-driven Parallel Robots, Prof. Jean-Pierre Merlet, INRIA Sophia Antipolis, France
10.50 - 11.00	Coffee break
11.00 - 12.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
12.50 - 14.00	Lunch
14.00 - 15.50	Special Session – “Research Topics and Interests of the Participants to the MMKR 2012 Summer School”
15.50 - 16.00	Coffee break
16.00 - 17.50	Special Session – “Research Topics and Interests of the Participants to the MMKR 2012 Summer School”
17.50 - 18.30	Discussions

**Friday, July 6, 2012**

9.00 - 10.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
10.50 - 11.00	Coffee break
11.00 - 12.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
12.50 - 14.00	Lunch
14.00 - 15.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
15.50 - 16.00	Coffee break
16.00 - 17.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
17.50 - 18.30	Discussions

**Saturday, July 7, 2012**

9.00 - 10.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
10.50 - 11.00	Coffee break
11.00 - 12.50	Algebraic Geometry in Robot Kinematics, Prof. Manfred Husty, University of Innsbruck, Austria
12.50 - 13.00	Closing Ceremony
13.00 - 14.00	Lunch
14.30 - 22.00	Excursion and Gala Dinner

**Sunday, July 8, 2012**

<b>Departure of participants</b>
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