



Institut de Robòtica
i Informàtica Industrial



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For further information visit:
<http://www.iri.upc.edu/ck2013/>

6th International Workshop on Computational Kinematics (CK2013) Barcelona, Spain, May 12-15, 2013

FIRST CALL FOR PAPERS AND ANNOUNCEMENT

Aims

The aim of the conference is to bring together researchers from the broad range of disciplines related to Computational Kinematics in an intimate, collegial and stimulating environment, where they can present and exchange their newest scientific results. The CK2013 Workshop is one of the activities of the IFTToMM Technical Committee for Computational Kinematics. The previous sites of this Workshop series were Schloss Dagstuhl (1993), Sophia Antipolis (1995), Seoul (2001), Cassino (2005), and Duisburg-Essen (2009).

Site

The Workshop will be held at the Universitat Politècnica de Catalunya, Barcelona, Spain. Barcelona airport is served by all major airlines including some low-cost companies.

Topics

- Kinematic design and synthesis
- Computational geometry in kinematics
- Motion analysis and synthesis
- Theory of mechanisms
- Mechanism design
- Kinematical analysis of serial and parallel robots
- Kinematical issues in biomechanics
- Molecular kinematics
- Kinematical motion analysis and simulation
- Geometric constraint solvers
- Deployable and tensegrity structures
- Robot motion planning
- Applications of computational kinematics
- Education in computational kinematics
- Theoretical foundations of kinematics

Social programme

Barcelona offers numerous exciting cultural events to its visitors together with excellent gastronomy. An excursion will be organized so that participants can come together to visit the ornate *Palau Nacional* which houses the *Museu Nacional d'Art de Catalunya*, an extensive showcase of Catalan painting and sculpture. Conference participants are invited for a banquet dinner to meet colleagues and enjoy the local hospitality.

Registration fees

Registration fees include admission to technical sessions, coffee breaks, welcome drink, banquet, cultural visit, and conference proceedings. The registration fees are:

Participants: 350€ (before April 15, 2013), 400€ (after April 15, 2013)

Students: 200€ (before April 15, 2013), 250€ (after April 15, 2013)

Submission instructions and publication information

Authors are invited to submit a full paper following the conference format. Accepted papers will be published after the workshop by Springer in an edited book.

IMPORTANT DATES

Paper submission deadline	Notification	Camera-ready deadline	Early registration deadline	Conference dates
January 27	March 10	March 31	April 15	May 12-15