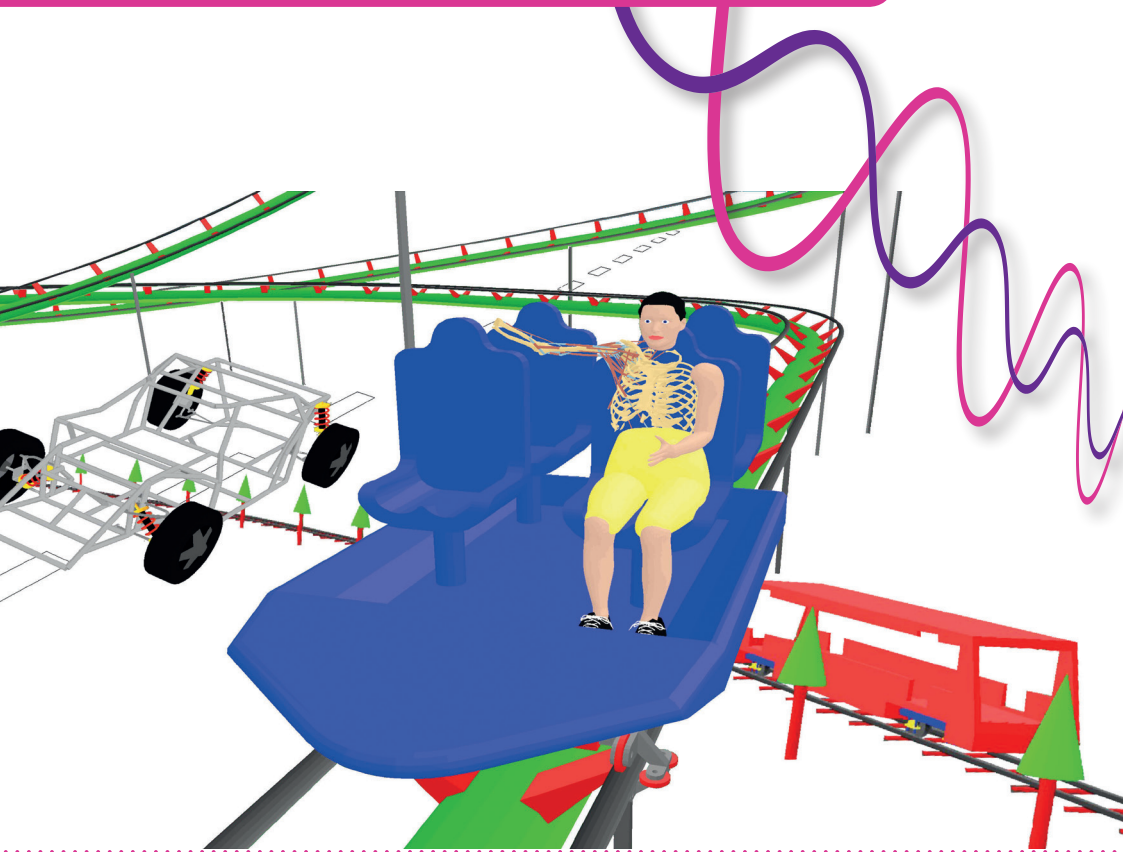


First Announcement and Call for Papers

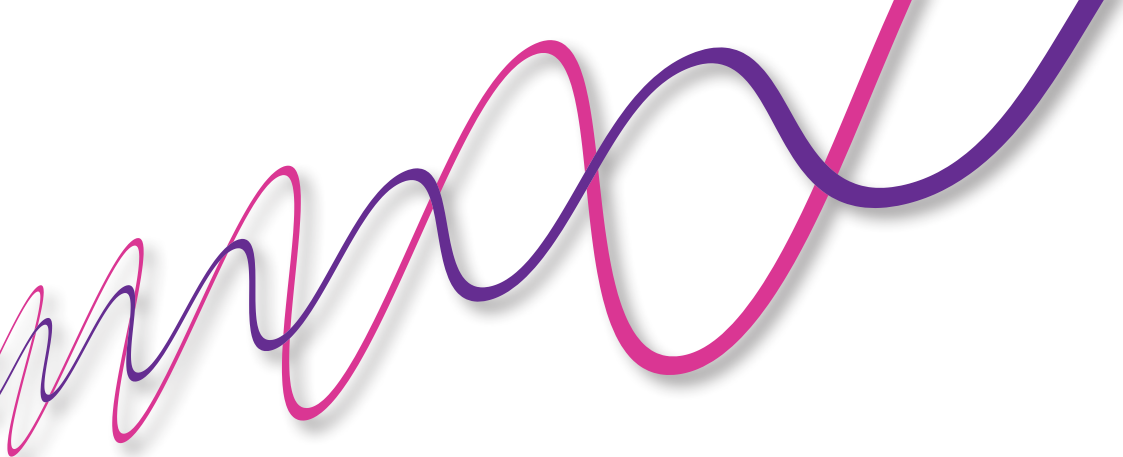


The 5th : Joint International Conference on IMSD
: Multibody System Dynamics

Lisbon, Portugal,
June 24 - 28, 2018

For more information
<http://imsd2018.tecnico.ulisboa.pt>





Instituto Superior Técnico Campus



Lisbon City Center

Venue

The conference will take place at the Instituto Superior Técnico, Lisbon University. Founded in 1911, IST is recognized as a leading school in Engineering, Architecture, Science & Technology, in Portugal and worldwide. IST, centrally located, can be easily reached by public transportations. A wide range of hotels are located at walking distance from Instituto Superior Técnico.

Call for Papers

Authors are invited to submit two-page abstracts, clearly stating the objectives, results and conclusions of the work to be discussed in the presentation. All abstracts will be reviewed and included in the book of abstracts.

Social Events

The social program includes a welcome reception, a tour and the conference banquet.

General Information

The conference official language is English. For further information about registration, instructions for authors, submission procedure, travel and accommodation, see: <http://IMSD2018.tecnico.ulisboa.pt>

Importante Dates

**Two-page abstract
submission deadline**
December 10, 2017

**Notification of
Acceptance/Rejection**
February 1, 2018

**Final Paper Submission
deadline**
April 30, 2018

The 5th Joint International Conference on Multibody System Dynamics

IMSD

The 5th Joint International Conference on Multibody System Dynamics, IMSD, will be held in Lisboa, Portugal, on June 24-28, 2018

Objectives

Multibody dynamics, based on computational dynamics, provides important methodologies and tools for vehicle dynamics, aerospace engineering, biomechanics, virtual prototyping, machine design and many other areas of application in which computer aided analysis of complex articulated mechanical systems plays a role. Developments in computer hardware and general purpose software continues to provide challenging demands for efficiency and accuracy by the industry, which, in turn, provoke the need to develop advanced features such as: real-time simulation capabilities, highly non-linear control devices, workspace and path planning, active control of machine flexibility and multidisciplinary features.

The purpose of the Conference is to serve as a meeting point for the international multibody community by providing a forum in which the recent developments in the field of multibody systems are discussed. The topics of the Conference include, but are not restricted to:

- Benchmark Problems in Multibody System Dynamics
- Biomechanics
- Computational Methods and Real-Time Applications
- Contact, Impact, and Constraints
- Control, Mechatronics, and Robotics
- Dynamics of Vehicles
- Flexible Multibody Systems
- Modeling, Formalisms, and Theoretical Methods
- Multibody Kinematics
- Multidisciplinary Methods, Applications, and Other Topics
- Optimization, Sensitivity Analysis, and Parameter Identification Steering Steering

Steering Committee

The Joint International Conference on Multibody System Dynamics is supervised by an International Steering Committee.

- Alberto Cardona (Argentina)
- Jin Hwan Choi (Korea)
- Javier Cuadrado (Spain)
- Peter Eberhard (Germany)
- Paulo Flores (Portugal)
- Sung-Soo Kim (Korea)
- Subir Kumar Saha (India)
- John McPhee (Canada)
- Aki Mikkola (Finland)
- Dan Negrut (USA)
- Corina Sandu (USA)
- Hiroyuki Sugiyama (USA)
- Yoshiaki Terumichi (Japan)
- Michael Valášek (Czech Republic)
- Hao Wang (China)

Keynote Speakers

- Hiroyuki Sugiyama (USA)
- Jin-Hwan Choi (Korea)
- Katja Mombaur (Germany)
- Martin Arnold (Germany)
- Paulo Flores (Portugal)
- Subir Kumar Saha (India)

Thematic Sessions

Thematic Sessions dedicated to the main topics of the Conference are organized by expert researchers. Kindly check the Conference web page for the Thematic Session organizers.

Conference Organization

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Secretariat

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Supporting Journal



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