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Multibody Dynamics 2023

24th - 28th July 2023
Lisbon, Portugal



IDMEC - Institute of Mechanical Eng.

Instituto Superior Técnico

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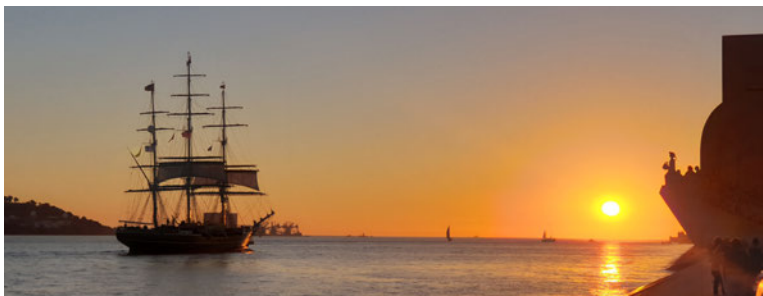
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Objectives

Multibody dynamics is an exciting area of mechanics, which merges various disciplines such as structural dynamics, multi-physic mechanics, computational mathematics, control theory and computer science in order to deliver methods and tools for the virtual prototyping of complex mechanical systems. Multibody dynamics play a central role in the modelling, analysis, simulation and optimization of mechanical systems in a variety of fields and for a wide range of applications. As new methods and procedures are being proposed at a fast pace in academia, research laboratories and industry, it becomes important to provide researchers in multibody dynamics with appropriate venues for exchanging ideas and results. To answer these needs, the ECCOMAS Thematic Conference on Multibody Dynamics was initiated in 2003. Since then the conference is held every two years in changing locations. This 11th edition is taking place in Lisbon, at the site of its 1st edition, 20 Years later.

Conference Topics and Registration

The Conference focuses on all aspects of multibody dynamics. Papers are especially solicited on the following topics:

- Biomechanics and medical applications
- Constraints and contact
- Multibody kinematics
- Mechatronics, robotics and control
- Flexible multibody dynamics
- Formulations and numerical methods
- Optimization and sensitivity analysis
- Efficient simulation and real-time applications
- Education, validation and software development
- Vehicle dynamics and aerospace applications

Authors are invited to submit individual contributions related to any of the Conference Topics. Submissions and conference registration have to be performed electronically via the conference website <https://multibody2023.tecnico.ulisboa.pt>

Venue

The 2023 ECCOMAS Multibody Dynamics Thematic Conference will be held at the Campus of the Instituto Superior Técnico, University of Lisbon, Portugal. The site is located in the center of Lisbon, not far from its airport and it is easily accessible by subway, bus or car. Hotels, shops, restaurants, and a vast number of tourist and cultural attractions are easily reached either by walking or with public transportation.

Social Program

The social program will include a reception, a banquet at a local place of interest and a cultural event.

Important Deadlines

Abstract submission	31 st December 2022
Notification of acceptance	31 st January 2023
Full paper submission (optional)	29 th March 2023
Early registration	29 th March 2023

Registration Fees

	Early Fees	Late Fees
Delegates	600€	700€
Students	400€	500€

The conference fees include: book of abstracts, a data medium with conference proceedings, attendance to all scientific sessions, coffee breaks, lunches and social program.

Organizing Committee

Jorge Ambrósio - Chair	Paulo Flores
Carlos Quental	Hugo Magalhães
Paula Jorge - Secretariat	

Supports

- European Community on Computational Methods in Applied Science (ECCOMAS)
- Instituto de Engenharia Mecânica (IDMEC)
- Instituto Superior Técnico (IST)