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Multibody Dynamics 2021

27th June – 1st July 2021
Budapest, Hungary



Budapest Univ. of Technology and Economics
Department of Applied Mechanics

✉ <https://eccomasmultibody2021.mm.bme.hu>
eccomasmultibody2021@mm.bme.hu

Muegyetem rkp. 3. Budapest, Hungary, H-1111



Objectives

Multibody dynamics play a central role in the modelling, analysis, simulation and optimization of mechanical systems with a large variety of engineering applications. The ECCOMAS Thematic Conference on Multibody Dynamics is one of the most widely known multibody conferences, which always takes place in Europe. The forthcoming conference in Budapest will be the 10th in a successful series of meetings held in Lisbon (2003), Madrid (2005), Milan (2007), Warsaw (2009), Brussels (2011), Zagreb (2013), Barcelona (2015), Prague (2017), Duisburg (2019). The conference serves as an opportunity for researchers worldwide to exchange ideas in multibody dynamics concerning theoretical aspects, computational approaches, and also in applied research such as vehicle dynamics, robotics, mechatronics, biomechanics or controlled multibody systems. The conference provides an excellent platform for sharing novel ideas within the continuously growing multibody research community.

Venue

The conference will take place in Budapest which is one of the most attractive capitals in Europe with vibrant cultural and scientific activities. The city is split into two, Buda and Pest, by the magnificent river Danube, and the two parts are connected by impressive historic and modern bridges. The well-organized public transport system ensures visitors to reach the conference venue and nearby hotels from the airport and the train stations. The city centre is also easily accessible even by walking, where plenty of restaurants and hotels offer their services.

Conference Topics

All aspects of multibody dynamics are encouraged to appear; papers are particularly welcome in the following areas:

- Biomechanics, medical applications
- Constraints, contact and impact
- Multibody kinematics
- Mechatronics and robotics
- Control and time delay in multibody systems
- Vehicle dynamics and aerospace applications
- Flexible multibody dynamics
- Modelling, formalisms, validation
- Optimization, sensitivity analysis, and parameter identification
- Efficient computational methods and real-time applications
- Education, numerical methods and software development

Call for papers

Authors are invited to submit two-page extended 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. Authors are encouraged to consider the possibility of full paper submission. Full papers will be peer-reviewed and published in the ISBN registered electronic conference proceedings.

Registration

Participants and accompanying people must register in advance on the conference homepage. Students can register with reduced fee. The conference fees include: a pendrive with the book of abstracts and the conference proceedings, attendance to all scientific sessions, coffee breaks, lunches and social programs. For accompanying people, the fee includes the social programs.

Social Program

A Reception, a Conference Dinner and a Social Event will be organized.

Organizing Committee

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