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Multibody Dynamics 2019

15th - 18th July 2019
Duisburg, Germany



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.

Conference Topics and Registration

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

- Biomechanics
- Contact and constraints
- 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
- Applications in vehicle dynamics, aerospace and medical devices

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 www.uni-due.de/eccomasmultibody2019.

Venue

The 2019 ECCOMAS Multibody Dynamics Thematic Conference will be held at the Campus of the University of Duisburg - Essen, Duisburg, Germany. The site is located close to the city of Düsseldorf and its airport and is easily accessible by subway, bus and car. Shops, restaurants, the Rhine / Ruhr rivers and other cultural attractions of the whole Ruhr area are easily reached 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	17 th December 2018
Student scholarship registration	17 th December 2018
Notification of acceptance	31 st January 2019
Full paper submission	29 th March 2019
Early registration	29 th March 2019

Registration Fees

	Early Fees	Late Fees
Delegates	470€	490€
Students	270€	290€

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

Student Travel Scholarships

A certain number of travel scholarships are available to encourage the participation of students to the conference. The scholarships are awarded by the Organizing Committee to students who are authors or co-authors of a paper accepted for presentation, on the basis of the paper quality and of a curriculum vitae. Further details on the application process are available at the conference website.

Organizing Committee

Andrés Kecskeméthy - Chair	Tobias Bruckmann
Francisco Geu Flores	Wojciech Kowalczyk
Dominik Raab	Dieter Schramm
Andrea Hoffmann - Secretariat	

Supporting Organisations

- European Community on Computational Methods in Applied Science (ECCOMAS)
- University of Duisburg - Essen