

# ARK 2018

16TH INT. SYMPOSIUM ON ADVANCES IN ROBOT KINEMATICS  
JULY 01-05, 2018, BOLOGNA, ITALY

## FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Advances in Robot Kinematics (ARK) is a series of international symposia focusing on the theory and applications of robot kinematics. They are being organized every two years since 1988, and run under the patronage of the Int. Federation for the Promotion of Mechanism and Machine Science. Since the first symposium, ARK has attracted the most eminent authors and has continued to grow in terms of number of participants and scientific impact. ARK provides a forum for researchers working in the field of robot kinematics and stimulates new research directions by forging links between kinematics and other areas.

**In 2018, we celebrate 30 years of outstanding Advances in Robot Kinematics!**

## ORGANIZED BY

- Group of Robotics, Automation and Biomechanics (GRAB) at the Dept. of Industrial Engineering, University of Bologna, Italy
- Jožef Stefan Institute, Ljubljana, Slovenia

## CONFERENCE CHAIRMEN

- J. Lenarčič, J. Stefan Institute, Slovenia
- V. Parenti-Castelli, University of Bologna, Italy
- B. Roth, Stanford University, USA (honorary chairman)

## SCIENTIFIC COMMITTEE:

- J. Angeles, McGill University, Canada
- M. Husty, University of Innsbruck, Austria
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- F. Park, Seoul National University, Korea
- A. Perez, Idaho State University, USA
- J. Selig, London South Bank University, UK
- B. Siciliano, University of Naples, Italy
- M. M. Stanisic, University of Notre Dame, USA
- F. Thomas, Institute of Industrial Robotics, Spain
- P. Wenger, Ecole Centrale de Nantes, France

## LOCAL ORGANIZING COMMITTEE

- V. Parenti-Castelli, M. Carricato, R. Vertechy, Y. Wu
- University of Bologna, Italy

## TOPICS

Paper topics include, but are not limited to:

- Kinematics of robots
- Robot modeling and simulation
- Robot design
- Kinematics in robot control
- Theories and methods in kinematics
- Singularity analysis
- Kinematic problems in parallel robots, redundant robots, cable robots, overconstrained linkages
- Kinematics in biological systems, humanoid robots and humanoid subsystems

## PRESENTATION AND PUBLICATION

Authors are invited to submit a full paper through the webpage of the conference. The official language of the conference is English. The final version of the paper must not exceed 8 typeset pages. Each submission will be peer-reviewed and accepted papers will be included in a book published by Springer.

## VENUE

Bologna is located in the heart of Northern Italy, midway between Milan and Florence, on the edge of the Po Plain and at the foot of the Apennine Mountains. The metropolitan area has a population of almost 1 million inhabitants. Its well-preserved medieval city centre, characterized by 40km of arcades and peculiar red-brick buildings, is among the largest in Europe. The city offers a quality of life among the highest in Italy. Bologna is a strategic crossroads of goods and people, one of the most important business cities in Italy. It is the main highway and railway junction in the country, with a fast-growing international airport.



The University of Bologna - Alma Mater Studiorum was founded in 1088 and is considered to be the oldest university in the Western world. Over the centuries, the institution has been a nurturer and protector of knowledge, scholarship, and scientific discovery, and a vital thread in the fabric of European culture. With 5 campuses, 6000 teaching and service staff people, and 85000 students, the University of Bologna fosters science and innovation through a wide range of study programmes and cutting-edge research projects.

## REGISTRATION FEES

Registration includes admission to technical sessions, conference proceedings, coffee breaks, lunches, welcome reception, banquet and social events. Each accepted paper requires one registration fee to be paid.

- Regular registration: 450 € (IFTToMM MO); 500 € (Non-IFTToMM MO)
- Student registration: 350 € (IFTToMM MO); 375 € (Non-IFTToMM MO)
- Late registration: +100 €

## IMPORTANT DATES

- Full-paper submission: January 14, 2018
- Acceptance notification: February 28, 2018
- Final paper submission: March 18, 2018

## WEBSITE

<https://events.unibo.it/ark2018>



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