

Announcement

DISC Summer School

A Systems and Control Perspective in Human-Robot-Environment Interaction

Centerparcs park Zandvoort, Zandvoort, The Netherlands
June 14-17, 2016

Invitation

Raffaella Carloni, Jens Kober, Manuel Mazo Espinosa and Alessandro Saccon have the pleasure to invite you to participate in the DISC Summer School on "A Systems and Control Perspective in Human Robot Environment Interaction", which is scheduled to take place from June 14-17, 2016, at "Centerparcs park Zandvoort", Zandvoort, The Netherlands.

The invitation is aimed at research students, staff members, researchers and engineers engaged in the systems and control area. Distinguished speakers will each present a series of tutorial lectures.

Human Robot Environment Interaction. Robotics is moving away from strictly controlled factory floors and slowly entering our daily lives. Examples include industrial production, household assistance, care, medicine, and agriculture. Next generation of robots will need to interact with their environment, with each other, and with humans. This transition is driven by emerging societal needs and will be enabled by advances in perception, actuation, and computational power, but also by suitable modeling and control aspects tailored to robotic systems. This poses challenging questions to the research community that still require fully satisfying answers.

In this summer school, particular attention will be given to:

- **Modeling and Control of Fix-Based and Free-Floating Robots**
- **Control of Robot-Environment Physical Interaction**
- **Stability and Performance of Human-Robot Physical Interaction**
- **Multi-Robot Coordination and Control**

Lecturers

The main program will consist of various speakers. Keynote lectures will be given by:

- **Alessandro De Luca**, Sapienza University of Rome, Italy (to be confirmed)
- **Roy Featherstone**, Italian Institute of Technology, Italy
- **Aaron D. Ames**, Georgia Institute of Technology, Atlanta, USA
- **Jorge Cortes**, University of California, San Diego, USA
- **Bert Kappen**, Radboud University, NL
- **Arjan van der Schaft**, University of Groningen, NL
- **Ming Cao**, University of Groningen, NL
- **Stefano Stramigioli**, University of Twente, NL

Registration

The registration fee, which includes full board and lodging, is

- 800,- euro for DISC students/members (before May 6, 2016 -early bird) and 950,- euro (after May 6)
- 1000,- euro for non-DISC members (before May 6, 2016 - early bird) and 1150,- euro (after May 6)

You will be staying in a comfort cottage with two or three people. You will have your own bedroom. Sheet package, towel package, kitchen package and swimming pool access are included.

The school is limited to 75 participants based on a first-come first-serve policy. The registration deadline is May 31, 2016 (Early bird deadline May 6, 2016).

You can register at the following website: <https://disc-forum.nl>. Non DISC members can also send an email to: secr@disc.tudelft.nl (Please mention your full name and university including address).

For further information, contact the DISC administrative office: Martha Otte (m.w.otte@tudelft.nl) or the organizers: Raffaella Carloni (r.carloni@utwente.nl); Jens Kober (j.kober@tudelft.nl); Manuel Mazo Espinosa (M.Mazo@tudelft.nl) and Alessandro Saccon (a.saccon@tue.nl).