

Announcement

DISC PhD School
Control for Cyber-Physical Systems

Zandvoort (near Amsterdam at the beach), The Netherlands
June 1-4, 2015

Invitation

Maurice Heemels and Alberto Bemporad have the pleasure to invite you to participate in the DISC Summer School on "Control for Cyber-Physical Systems", which is scheduled to take place from June 1-4, 2015, 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.

Venue

The school will be held in Centerparcs park Zandvoort, which is a beach resort right at the beach of the North Sea, see the [website](#). Zandvoort is a nice and vibrant beach town, very close to Amsterdam.

Cyber-Physical Systems

The design of next generation smart electricity grids, intelligent transportation, electron microscopy and high-end printing requires a tight coordination between computation, communication and control elements (the cyber part) on the one hand, and physical processes such as heating, cooling, motion, vibrations, etc. (the physical part) on the other hand. Despite the need for integrated design of these so-called cyber-physical systems (CPS), the corresponding scientific disciplines (control, computer science, etc.) have predominantly developed independently. Novel system architectures and systematic design methods are needed to realize the integrated design of the CPS of the future.

Particular attention will be given to:

- Control over communication networks
- Security of CPS
- Resource-aware control
- Formal methods in control
- Hybrid systems
- Multi-agent systems
- Distributed and decentralized control and MPC, and important applications

Lecturers

Keynote lectures will be given by:

- **Prof. Girish Nair, University of Melbourne, Australia**
- **Prof. Ricardo Sanfelice, University of California, Santa Cruz, USA**
- **Prof. Paulo Tabuada, University of California, Los Angeles, USA**
- **Prof. Alberto Bemporad, IMT Lucca, Italy**
- **Prof. Sebastian Engell, University of Dortmund, Germany**
- **Prof. Kim Larsen, Aalborg University, Denmark**
- **Prof. Kanat Camlibel, University of Groningen, NL**
- **Prof. Ming Cao, University of Groningen, NL**
- **Prof. Bart De Schutter, Delft University of Technology, NL**
- **Prof. Maurice Heemels, Eindhoven University of Technology, NL**

Registration

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

- 1000,- Euro for non-DISC members (before April 15 - early bird) and 1150,- Euro (after April 15)
- for DISC students/members 800,- Euro (before April 15 - early bird) and 950,- Euro (after April 15)

You stay in a comfort cottage with three people. You have your own bedroom. Sheet package, towel package, kitchen package and swimming pool access are included. For cottage details check the website.

The school is limited to 55 participants based on a first-come first-serve policy. The registration deadline is May 15, 2015 (Early bird deadline April 15).

You can register at the following website: <https://disc-forum.nl>. Non DISC members can also send an email to: secr@disc.tudelft.nl for registration. (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: Maurice Heemels (m.heemels@tue.nl) and Alberto Bemporad (alberto.bemporad@imtlucca.it)