

Announcement

DISC Summer School

Dynamics and Control Problems in Medical Robotics

NH Conference Centre Leeuwenhorst (Noordwijkerhout), The Netherlands
June 20-23, 2011

Invitation

The organizers have the pleasure to invite you to participate in the DISC Summer School on "Dynamics and Control Problems in Medical Robotics", which is scheduled to take place between June 20-23, 2011, at the NH Conference Centre Leeuwenhorst, Noordwijkerhout (near Leiden), The Netherlands.

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

Medical robotics has quickly emerged as an interdisciplinary topic, solving problems within the medical sciences while utilizing fundamental principles from various engineering disciplines. There exist several design and control challenges that need to be addressed in order to develop reliable medical robotic systems. This summer school focuses on topics that are relevant to the dynamics and control of such systems:

- **Teleoperation** – robot control and teleoperation
- **Visual servoing** – computer vision, visual servoing, and ultrasound guidance
- **Passivity-based control** – modeling the interaction of dynamical systems and passivity theory

Lecturers

The main program will consist of the following speakers:

Teleoperation

Blake Hannaford (University of Washington, USA).

Visual servoing

Gregory Hager (Johns Hopkins University, USA), Tim Salcudean (University of British Columbia, Canada), and Seth Hutchinson (University of Illinois at Urbana Champaign, USA).

Passivity-based control

Arjan van der Schaft (University of Groningen, The Netherlands).

Registration

The registration fee, which includes boarding and lodging, is
1100,- Euro for non-DISC members
700,- Euro for DISC-students and DISC-members

The school is limited to 60 participants based on a first-come first-serve policy. Registration deadline is May 15, 2011.

All details about the summer school, including a preliminary program, are available at the DISC website: <http://www.disc.tudelft.nl/education/medical-robotics.html>

You can register at following website: <https://disc-forum.nl>

Non DISC members can also sent an email to: secr@disc.tudelft.nl for registration. (Please mention your full name and university).

For further information, please contact the DISC administrative office: Saskia van der Meer (s.m.vandermeer@tudelft.nl) or the organizers: **Sarthak Misra** (s.misra@utwente.nl), **Stefano Stramigioli** (s.stramigioli@utwente.nl), **Dragan Kostić** (d.kostic@tue.nl) or **Gabriel Lopes** (g.a.delgadolopes@tudelft.nl).