

International Autumn School 2013 on „Human-Robot-Interaction“ November 18th – 22nd, 2013, Dresden, Germany

Scope & Topics

The Autumn School is one of the projects funded by the German Excellence Initiative as part of the TU Dresden institutional and it is inviting international young researchers and distinguished lecturers for discussing advanced topics in the evolving field of Human-Robot-Interaction, e.g. safe robotics, interactive robotics, cognitive robotics, computer vision, machine learning, artificial intelligence, human-machine-interaction.

Program

Monday Nov 18 th morning	<i>Sami Haddadin</i> , DLR Institute Robotics and Mechatronics, Oberpfaffenhofen, Germany Introductory Lecture Physical Human-Robot Interaction (safety, mechanical design, interaction control)
Monday Nov 18 th afternoon	<i>Tomas Pajdla</i> , Czech Technical University in Prague, Czech Republic 3D Vision for Robotics and Manipulation (camera and robot modeling, 3D measurement by structure from motion, 3D measurement by structured light sensors (Kinect, Xtion), combining a 3D measurement system with a robot)
Tuesday Nov 19 th morning	<i>Justus Piater</i> , Universität Innsbruck, Austria Robot Vision (topics from object recognition, pose estimation, affordance learning, face tracking, gesture recognition)
Tuesday Nov 19 th afternoon	<i>Gerhard Lakemeyer</i> , RWTH Aachen, Germany Cognitive Robotics - A Logical Perspective (knowledge representation and reasoning, action languages, robot planning)
Wednesday Nov 20 th morning	<i>Danica Kragic</i> , KTH Stockholm, Sweden Learning Object-Action Interactions (human observation, object affordances, task-based grasping)
Wednesday Nov 20 th afternoon	<i>Frank Flemisch</i> , RWTH Aachen, Germany Balanced Human Systems Integration for Assistance and Automation (human factors, ergonomics, system ergonomics, human robot cooperation, highly automated systems, assistant systems)
Thursday Nov 21 st morning	<i>Wolfram Burgard</i> , Universität Freiburg, Germany Probabilistic Robotics (foundations, theory, perception, navigation, mobile manipulation)
Thursday Nov 21 st afternoon	<i>Jan Peters</i> , TU Darmstadt, Germany Robot Learning Classes (model learning, imitation learning, reinforcement learning)
Friday Nov 22 nd	Project Work

Contact

Prof. Dr. techn. Klaus Janschek
Faculty of Electrical and Computer Engineering
Technische Universität Dresden • 01062 Dresden • Germany
E-Mail: summerschool.ing@tu-dresden.de • www.tu-dresden.de/hri-autumn-school



Applications

Applicants

Young researchers: PhD, Postdocs, final year master students (high potentials)

Application documents

- letter of motivation (1 page, A4)
- curriculum vitae with list of publications (in table form)

Should be sent to summerschool.ing@tu-dresden.de

Application deadline: ~~September 15th 2013~~

NEW: September 25th 2013

Costs and Logistics

Cost

The Autumn School is one of the projects funded by the German Excellence Initiative as part of the TU Dresden institutional strategy and TU Dresden will offer free of charge participation for the accepted applicants (includes course material, certificate, coffee breaks and some social events).

Grants

A limited number of grants covering free accommodation (Nov 17th - Nov 23rd, double-rooms in shared apartments, incl. breakfast at the TU Dresden International Guest House) and a lump-sum for travel support are available for non TU Dresden applicants. Please indicate in your application whether you wish to apply for a grant and why it is needed.

Location

The Autumn School will be hosted at the Technische Universität Dresden. The TU Dresden is one of the nine most prestigious, oldest, and largest universities (TU9) focusing on engineering and technology in Germany and has been awarded the excellence status within the German Excellence Initiative. The city of Dresden has been called "Elbflorenz" (Florence of the Elbe), due to a very pleasant location and a mild climate on the Elbe. It offers a Baroque-style architecture and numerous world-renowned museums as well as art collections.

More Information

www.tu-dresden.de/hri-autumn-school

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