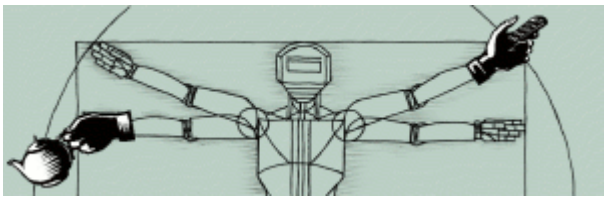

Tentative schedule

09:00 - 09:05 Welcome from the organizers
09:05 - 10:15 Task/grasp frames

- 09:05 A Sensor-based Approach for Physical Interaction Based on Hand, Grasp and Task Frames, Mario Prats, Pedro J. Sanz, Angel P. del Pobil
- 09:30 Grasp Synthesis in Cluttered Environments for Dexterous Hands, Dmitry Berenson, Siddhartha Srinivasa
- 09:55 Discussion of task/grasp frames

10:15 - 10:35 Break with refreshments
10:35 - 12:10 Learning

- 10:35 Interactive Learning of the Acoustic Properties of Objects by a Robot, Jivko Sinapov, Mark Weimer, Alexander Stoytchev
- 11:00 Body Scheme Learning and Life-Long Adaptation for Robotic Manipulation, Juergen Sturm, Christian Plagemann, Wolfram Burgard
- 11:25 Learning to Open New Doors, Ellen Klingbeil, Ashutosh Saxena, Andrew Y. Ng
- 11:50 Discussion of learning

12:10 - 02:00 Lunch
02:00 - 02:45 Keynote lecture: Rüdiger Dillmann
02:45 - 03:45 Poster/Demo Session (refreshments, 3:20 - 3:40)

- Using Manifolds for Dextrous Hand Control, Jan Steffen, Robert Haschke, Helge Ritter
- Designing Ultra-Low Cost Asymmetric Grippers for Human Tasks, Nikhil Hemnani, Dale Wick, Navdeep Kaur
- Two-Fingered Grasp Planning for Randomized Bin-Picking, Donna Dupuis, Simon Leonard, Matthew Baumann, Elizabeth Croft, Jim Little
- Demo: DLR Lightweight Robots - Soft Robotics for Manipulation and Interaction with Humans, Sami Haddadin, Andreas Stemmer, Paolo Robuffo Giordano
- Demo: Shadow Dexterous Hand, Armando De La Rosa
- A Natural Language Instruction System for Humanoid Robots Working in Human Environments, Neo Ee Sian
- RobotCub: An Open Framework for Research in Embodied Cognition, Lorenzo Natale

03:45 - 05:20 Robust manipulation

- 03:45 Behaviors for Robust Door Opening and Doorway Traversal with a Force-Sensing Mobile Manipulator, Advait Jain, Charles C. Kemp
- 04:10 Vision-based grasping of unknown objects to improve disabled people autonomy, Anthony Remazeilles, Claire Dune, Marchand Eric, Christophe Leroux
- 04:35 How Can Robots Succeed in Unstructured Environments?, Dov Katz, Jacqueline Kenney, Oliver Brock
- 05:00 Discussion of robust manipulation

05:20 - 05:30 Lightning talks (short talks <= 4 minutes each, sign up during the day, time allotted will depend on demand and review by the organizers)
05:30 - 05:50 The future of robot manipulation

- What are possible and relevant near-term applications?
- What are the engineering and scientific challenges?

05:50 - 06:20 Planning for next year's workshop