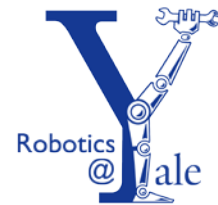


## 2011 New England Manipulation Symposium



**9:00-9:10 Welcome and Introduction – Prof. Aaron Dollar and Prof. John Morrell**

**9:10-10:10 Session 1 (Mason 211) - Chair: Dr. Ravi Balasubramanian (Yale)**

- 9:10 “Drumming Manipulations within Robot Child Contexts” - Timothy Gifford, Dobromir Dotov, Anjana Bhat - UConn
- 9:25 “Learning Grasp Stability” - Hao Dang and Peter K. Allen - Columbia Univ.
- 9:40 “Intuitive Control of a Remote Avatar Using Natural Gestures” - Piergiulio Lauriano - Roger Williams Univ.
- 9:55 “Schema Structured Bayesian Inference for Manipulation and Grasping” - Grant Sherick, Shiraj Sen, Dirk Ruiken, Rod Grupen – UMass Amherst

**10:10-10:30 Coffee break (Mason 200)**

**10:30-11:30 Session 2 (Mason 211) - Chair: Dr. Paul Pounds (Yale)**

- 10:30 “Dynamics simulation using Proximal Point formulation on the GPU” - Jeremy Betz - RPI
- 10:45 “Under-actuated robotic hand exoskeleton for the disabled” - Kyujin Cho - Seoul National University, Korea
- 11:00 “ROS for non-ROS users: rosbridge, rosj, and the PR2 Remote Lab” - Chad Jenkins - Brown U.
- 11:15 “Caging Micromanipulation for Automated Microassembly” - David Cappelleri, Michael Fatovic, Utsav Shah, Zenbo Fu - Stevens Inst. Tech.

**11:30-12:00 Invited Talk (Mason 211): “Advances in Upper Limb Prosthetics: Clinical Experience with the DEKA Arm” – Linda Resnik – Brown University/Providence VA Medical Center**

**12:00-12:15 Poster Bullets (Mason 211) - Chair: Dr. Frank Hammond (Harvard)**

**12:15-1:15 Lunch/Poster session (Dunham 107)**

**1:15-2:30 Session 3 (Mason 211) - Chair: Dr Lael Odhner (Yale)**

- 1:15 “Contributions of Arm Motion to Fall Recovery” - Scott Kuindersma – UMass Amherst
- 1:30 “Compliance Makes Simple Sensors Smart” - Leif Jentoft - Harvard
- 1:45 “On the effects of pose error on grasp contact wrench space metrics” - Jonathan Weisz and Peter Allen - Columbia
- 2:00 “Exploration of the Role of the Passive Joint Properties in the Hand Functionality” - Ashish Deshpande - UMaine
- 2:15 “A Data-Driven Method for Reducing the Mechanical Complexity of Underactuated Robotic Hands” - Frank Hammond - Harvard

**2:30-3:45 Yale Lab tours (Mason 110, Mason M1, Dunham 108)**

**3:45-4:45 Session 4 (Mason 211) - Chair: Dr. Chris Crick (Brown)**

- 3:45 “Manipulation Research at iRobot” - Wes Huang - iRobot
- 4:00 “Bio-Inspired Mechanism Design” - Sangbae Kim - MIT
- 4:15 “Piezoelectrically Actuated MRI-Compatible Needle Placement Robot for Transperineal Prostate Interventions” - Greg Fischer - WPI
- 4:30 “On Dexterity and Dexterous Manipulation” - Raymond Ma and Aaron Dollar - Yale

**5:30-7:00 Optional Dinner at Black Bear Saloon (Yale people and anyone else able to stay) – 124 Temple St. New Haven**