

NEMS 2006 Program

University of Massachusetts Amherst, June 9, 2006

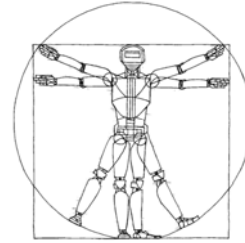
- 9:55 Welcome
- 10:00 Computation reuse in statics and dynamics problems for assemblies of rigid bodies
Anne Loomis and Devin Balkom, Dartmouth
- 10:20 Time-optimal trajectories for omni-directional vehicles
Paritosh Kavathekar, Dartmouth
- 10:40 2D Subspaces for Sparse Control of High-DOF Robots
Chad Jenkins, Brown University
- 11:00 From Robotic Hands to Human Hands: A Visualization and Simulation Engine for Grasping Research
Peter Allen and Matei Ciocarlie, Columbia University
- 11:20 Manipulation in Human Environments
Aaron Edsinger and Charlie Kemp, MIT CSAIL
- 11:40 Cooperative Payload Transport by Robot Collectives
Venkat Krovi, SUNY Buffalo
- 12:00 Lunch, Discussion, Demos (starting at 1:00)
- 2:00 daVinci Code: A Multi-Model Simulation and Analysis Tool for Multi-Body Systems
Steve Berard and Jeff Trinke, RPI
- 2:20 Designing Open-Loop Plans for Planar Micro-Manipulation
Jon Fink and Dave Cappelleri, UPenn
- 2:40 Coordinating Droplets in Digital Microfluidic Systems
Eric Griffith and Srinivas Akella, RPI
- 3:00 Design and Implementation of a Dynamically Balancing Mobile Manipulator
Patrick Deegan, Bryan Thibodeau, and Rod Grupen, University of Massachusetts Amherst
- 3:20 A Basic Level of Attentional Behavior for Manipulation, Interaction, and Learning
John Sweeney, Sichao Ou, Steve Hart, and Rod Grupen, University of Massachusetts Amherst
- 3:40 Elastic Roadmaps: Globally Task-Consistent Motion for Autonomous Mobile Manipulation in Dynamic Environments
Yuandong Yang and Oliver Brock, University of Massachusetts Amherst
- 4:00 Closing

NEMS 2006 Participants

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Brown University	German Gonzales Chad Jenkins Aggeliki Tsoli	
Clark University	Li Han Lee Rudolph	
Columbia University	Peter Allen Matei Ciocarlie	
Dartmouth	Devin Balkom Matt Bell Paritosh Kavathekar Anne Loomis	
MIT	Aaron Edsinger-Gonzales Kaijen Hsiao Charlie Kemp Nick Roy	
RPI	Srinivas Akella Arjun Arumbakkam Kris Beevers Stephen Berard Nguyen Binh Eric Griffith Wes Huang	Vokan Isler Kamath Patrick Marion Meisner Benjamin Roghani Jeff Trinkle Jon Wen
SUNY Buffalo	Rajankumar Bhatt Venkat Krovi Lengfeng Lee Anand Naik Chin Pei Tang	
UMass Amherst	Oliver Brock Thomas Buckley Brendan Burns Patrick Deegan Walker Duhon Anna Grishkan Rod Grupen Steve Hart Emily Horrell Filip Jagodzinski Dubi Katz	Erik Learned-Miller Sarah Osentoski Sichao Ou Dirk Ruiken Shiraj Sen Ashvin Shah John Sweeney Bryan Thibodeau Yuandong Yang Volodymyr Zhytkovskyy
UMass Lowell	Phil Toren Kate Tsui Holly Yanco	
UPenn	Dave Cappelleri Peng Cheng Jonathan Fink	

ROBOTICS SCIENCE AND SYSTEMS



August 16–19, 2006
Philadelphia, Pennsylvania
<http://www.roboticsconference.org>

Robotics: Science and Systems has a great technical program, and registration and accommodation are very affordable. Workshops attendance is included in the registration fee. The conference location is within driving distance of your university. This is a great opportunity for you to attend a high-quality, single-track conference and see the most recent developments in all areas of robotics.

Student registration: \$100
Student accommodation: \$60
Regular registration: \$300

Student registration includes workshops and banquet.

The program includes a free, full-day workshop on **Manipulation for Human Environments**, organized by Charles C. Kemp (MIT), Aaron Edsinger (MIT), Paul Fitzpatrick (University of Genova), Lorenzo Natale (MIT), and Eduardo Torres-Jara (MIT).

Early registration ends July 15, 2006.

Hope to see you there!