ROBOTICS: SCIENCE AND SYSTEMS

June 8-11, 2005
Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.
www.roboticsconference.org

Submissions are solicited for a new conference that spans all areas of robotics. The conference will bring together researchers working on algorithmic or mathematical foundations of robotics, robotics applications, and analysis of robotic systems. The conference will include invited talks as well as oral and poster presentations of refereed papers. It will be single track and highly selective. The main conference will be followed by one day of workshops.

INVITED SPEAKERS:
Nicholas Ayache, INRIA  Surgery Simulation with Geometric, Physical, and Physiological Models of Organs
Cynthia Breazeal, Massachusetts Institute of Technology  Socially Interactive Robots that Assist, Entertain, and Learn
Heinrich Bülthoff, Max Planck Society for Biological Cybernetics  Multimodal Sensor Fusion in Man and Machine
Robert Full, University of California at Berkeley  Biological Inspiration in the Design of Legged Robots, Artificial Muscles, and Feet
Geoffrey Hinton, University of Toronto  Learning to Use a Body
Takeo Kanade, Carnegie Mellon University  Computer Vision: Redoing it as a Gigantic Search Problem
Mitsuo Kawato, Advanced Telecommunications Research Institute  Connecting Brain and Humanoids by Computational Neuroscience
Daniel Koditschek, University of Pennsylvania  Programming Work
Erik Winfree, Carnegie Mellon Institute of Technology  Creating a DNA World

Important Dates:
Deadline for Submission of Papers: January 17, 2005
Deadline for Workshop Proposals: January 31, 2005
Acceptance Announcements: March 31, 2005
Conference: June 8-11, 2005
- Technical Sessions and Posters: June 8-10, 2005
- Workshops: June 11, 2005

Review Criteria:
Submissions will be refereed on the basis of technical quality, novelty, significance, and clarity. Each submission will be thoroughly reviewed by at least three program committee members. Submissions will then be discussed at an in-person senior program committee meeting. There will be an opportunity after the meeting to revise accepted manuscripts.

Paper Format:
Submissions may be up to eight pages in length, including figures and references, using a font no smaller than 10 point. All text and figures must fit within a 9 inch by 6.5 inch rectangle on a page formatted in double-column format. Submissions violating these guidelines will not be considered. A LaTeX template will be available at the conference Web site www.roboticsconference.org.

Submission Instructions:
The conference accepts only electronic submissions in PDF format. The conference web site will accept electronic submissions from December 14, 2004, until midnight, January 17, 2005, Pacific time.