



Announcement & Call for Papers
**The Sixth IARP-IEEE/RAS-EURON
Joint Workshop**

on
**Technical Challenges for Dependable
Robots in Human Environments**

Pasadena, California

May 17-18, 2008

Modern robotics is addressing many new areas of application that require safe and effective physical and cognitive interaction with humans. The 6th Workshop on "Technical Challenges for Dependable Robots in Human Environments" continues the successful story of this track of scientific events that brings together a small group of top experts in Robotics and other disciplines to discuss the latest major advances in this field and to identify roadmaps for future development of dependable robotic technologies. The workshop is scheduled in conjunction with ICRA 08 in Pasadena. Topics include:

- * Theoretical foundations of robot dependability and resilience
- * Actuators and sensors for dependable robots
- * Algorithms for fault detection, identification, and recovery
- * Human factors for robotics & human-centered robot design
- * User friendly interfaces for robotic systems
- * Human-robot safe physical interaction
- * Dependable, autonomous and mixed-initiative, decision making
- * Case-studies on robot dependability in emerging application domains: industrial, service, space, biomedical, and personal robotics.
- * Robot acceptability, ethical and social implications of the introduction of Robotics in Human Environments

Important dates:

Extended abstract due: March 7, 2008

Notification of Acceptance: March 31, 2007

Full paper submission: April 30, 2007

Organizing Committee:

- * Oussama Khatib, Chair – Stanford University, USA
- * Vandí Verma, Co-chair – Jet Propulsion Laboratory, USA
- * William Hamel – University of Tennessee, USA
- * Eugenio Guglielmelli – Campus Bio-Medico University, Italy

International Programme Committee:

- | | |
|----------------------|--------------------|
| * Rachid Alami | * Sungchul Kang |
| * Darwin Caldwell | * Kazuhiro Kosuge |
| * Alicia Casals | * Cecilia Laschi |
| * Henrik Christensen | * Sukhan Lee |
| * Peter Corke | * Claudio Moriconi |
| * Paolo Dario | * Allison Okamura |
| * Angel Del Pobil | * Geoff Peggman |
| * Rudiger Dillmann | * David Powell |
| * Felix Ingrand | * Bruno Siciliano |
| | * Yoji Yamada |

Supported by IARP countries : USA, Australia, France, Germany, UK, Italy, Japan, Korea, Spain) and the Robot Dependability Working Group (rd-wg@laas.fr)

For updates and details visit the workshop website <http://cs.stanford.edu/group/manips/iarp/index.html>