

# Call for papers

This call for paper addresses papers presenting advanced robotic solutions which will be selected for oral presentations at the IEEE International Conference on Robotics and Automation (ICRA) 2012 (full day) workshop “Industry-Academia collaboration in the ECHORD project: a bridge for European robotic innovation”, in Saint Paul RiverCentre, St. Paul, Minnesota, USA, May 18, 2012.

Website: <http://www.echord.info/wikis/website/icra-2012-workshop>

Important dates:

March 15, 2012: Paper submission due

April 15, 2012: Notification of acceptance

May 18, 2012: full day workshop

Organizers:

Alois Knoll, Reinhard Lafrenz and Christophe Simler, Technische Universität München, Germany

Bruno Siciliano, Università degli Studi di Napoli Federico II, Italy

Norberto Pires, University of Coimbra, Portugal

Abstract:

In order to boost the practical use of robot technology not only in industrial settings, more sophisticated robotic solutions have to be elaborated, particularly in terms of autonomy, flexibility, interactivity and cooperating with human, ease of use, and safety. In order to be able to develop applications on the short-term and to maintain efficient improvement of European robotics in the long term, a better cooperation and technological know-how transfer between robot manufacturers and research institutions is essential.

Motivation and objectives:

The goal of the proposed workshop is to strengthen the exchange of knowledge and experience between scientists and practitioners and to inspire the robotics community to form new types of cooperation. The important collaboration between European robot manufacturers and research institutions in ECHORD will result in significant innovations in many facets of the robotic field. Researchers have the opportunity to design and test their latest algorithms on state of the art equipment provided by robot manufacturers.

Call for papers:

We invite paper submissions, which will be reviewed by the program committee. We aim to accept 12-15 papers for oral presentation at the meeting. Papers should be up to 2-4 pages including figures, in PDF version and in ICRA12 final camera ready format. Papers should be submitted by e-mail to: [simler@in.tum.de](mailto:simler@in.tum.de).

Topics include (but not limited to):

- Scientific results, technological progresses and innovations
- Scientific topics especially important for current robotic innovation such as

- HRI, user interface and data processing
  - Cognition, learning, language
  - Control, planning, navigation, grasping and manipulation
  - Sensing, actuation, mechanical design
  - Multi-agent systems, self-X systems
  - Autonomous robots
  - Others ...
- Industry-academia know how transfer and collaboration
  - Future impact and possible new applications

More information available on the website:

<http://www.echord.info/wikis/website/icra-2012-workshop>

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