

RI3C 2011 Second International Workshop on Robot Interaction, Control, Communication and Cooperation

*October 26-28, 2011, Technical University of Catalonia,
Barcelona, Spain*

In Conjunction with the 6th [BWCCA-2011](#) International Conference

Scope:

- Robots are being steadily introduced into modern everyday life and are expected to play a key role in the

near future. Typically, the robots are deployed in situations where it is too dangerous, expensive, tedious, and complex for humans to operate. Although many of the real-life applications may only need a single robot, a large number of them require the cooperation, coordination and communication of a team of robots to accomplish a certain task. The use of multiple robots of overlapping capabilities offers a cost-effective and more robust solution. This redundancy in the robots' capabilities makes the overall system more flexible and fault-tolerant.

- This workshop will focus on the emerging field of robot interaction, communication and cooperation bringing together research and application of methodology from robotics, human factors, human-computer interaction, interaction design, cognitive psychology, education and other fields to enable robots to have more natural and more rewarding interactions, communication and cooperation with humans throughout their spheres of functioning.

- The design of an efficient collaborative multi-robot framework that ensures the autonomy and the individual requirements of the involved robots is a very challenging task. Developing operational multi-robot teams involves research on a number of topics such as fault tolerant cooperative control, adaptive action selection, distributed control, robot awareness of team member actions, improving efficiency through learning, inter-robot communication, action recognition, local versus global control, and metrics for measuring the success.

- The aim of this workshop is to present the innovative researches, technologies and new concepts, services and application software of robotic systems.

- The workshop seeks original contributions in all relevant areas, including but not limited to the following topics.

Topics of Interest:

Robot Interaction, Robot Control, Robot Communication, Humanoid Robots, Robot Collaboration,

Intelligent Robotics, Welfare Robots, Rescue Robots, Robot Learning, Robot Design and Implementation,

Robot Protocols, Robot Visualization, Social Behavioral Robot, Human Robot Interaction,

Social Robotics, Multi-Modal Human-Robot Communication, Human-Robot Interaction Architectures,

Sensors and Perception for HRI, Educational Robotics, Quality of Life Technologies

Important Dates

- Submission Deadline: April 20, 2011
- Notification of acceptance: June 12, 2011
- Author Registration: July 10, 2011
- Final Manuscript: July 10, 2011
- Conference Dates: October 26-28, 2011

Submission Guidelines:

Submit a full paper not more than six pages (Conference proceedings manuscripts: two column, single-spaced), including figures and references, using 10 font size, and number each page.

You can find instructions for authors, at the following web page:

<http://www.computer.org/portal/web/cscps/formatting/>

Prepare your paper in PDF file and submit it by e-mail to the workshop Co-Chair

Prof. Leonard Barolli (barolli @ fit.ac.jp).

Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance.

Accepted papers will be published by the Conference Publishing Services (CPS) and archived in the Digital Library.

Workshop Co-Chairs:

Hitoshi Kino, Fukuoka Institute of

Email: kino @ fit.ac.jp

Leonard Barolli, Fukuoka Institute of

E-mail: barolli @ fit.ac.jp

Program Committee Members:

Hiroyuki Fujioka, Fukuoka Institute of

Kazuhiro Ohyama, Fukuoka Institute of

Tomonori Kato, Fukuoka Institute of

Kenji Tahara,

Akio Koyama,

Tetsuya Morizono, Fukuoka Institute of

Junpei Arai, of Industry and

Arjan Durrezi, at (IUPUI),

Keita Matsuo, Prefectural

Fatos Xhafa,

Vladi Kolici, Polytechnic