Message from the RI3C 2010
International Workshop Organizers

Welcome to Fukuoka Institute of Technology (FIT) and the First International Workshop on Robot Interaction, Control, Communication and Cooperation (RI3C 2010), which will be held in conjunction with the Fifth International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA 2010) at FIT in Fukuoka, Japan from 4-6 November 2010.

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 focuses 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 papers of RI3C 2010 were checked carefully by program committee members and we selected 10 high quality papers for presentation in the workshop and publication in CPS proceedings.

The organization of an international workshop needs the help of many people. We would like to express our appreciation to the authors of the submitted papers and to the program committee members.

We hope all of you will enjoy RI3C 2010 program and your stay in Fukuoka.

RI3C 2010 International Workshop Co-chairs
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Leonard Barolli, Fukuoka Institute of Technology, Japan