I Workshop on MSc Dissertation and PhD Thesis in Robotic (WTDR-2012)
I Best MSc Dissertation and PhD Thesis Contest in Robotic (CTDR-2012)

Call for Papers

Important Dates:

July, 1: paper submission
August, 1: notification to authors

About WTDR

WTDR-2012 is satellite event of the Latin American Robotics Symposium / Brazilian Robotics Symposium 2012 of the Joint Conference 2012, , which will be held in UNIFOR, University of Fortaleza at Fortaleza, Ceará, Brazil, on October 15-21. WTDR provides an opportunity for PhD and MSc students in Brazil to present their ongoing and/or recently concluded research with a panel of established researchers in Robotic. The workshop has the following objectives:

- to provide a setting for mutual feedback on participants' current research and guidance on future research directions;
- to develop a supportive community of scholars and a spirit of collaborative research;
- to contribute to the conference goals through interaction of graduate students with other researchers as well as participation in conference events;
- to increase the visibility of ongoing work for the academic and industrial community.

About CTDR

CTDR-2012 will take place in parallel to WTDR-2012. The main goals of CTDR are to divulge and award the best academic work in Robotics concluded in Brazilian Universities from June 2010 to June 2012. CTDIA expects papers with concluded work, with evaluation and results. The selected works will be presented and judged during the SBR-2012. Notice that in the submission phase, the main object of judgment is the paper; while in the second one (during the conference), the main object of judgment is the full thesis or dissertation (to be submitted if the paper was accepted).

Topics of Interest

WTDR/CTDR welcome research work in Robotic topics. They include but are not limited to:

- Vision in robotics and automation;
- Symbol mediated robot behavior control;
- Sensory mediated robot behavior control;
- Active sensory processing and control;
- Industrial applications of autonomous systems;

- Sensor modeling and data interpretation e.g. models and software for sensor data integration, 3D scene analysis, environment description and modeling, pattern recognition;
- Robust techniques in AI and sensing e.g. uncertainty modeling, graceful degradation of systems;
- Robot programming e.g. on-line and off-line programming, discrete event dynamical systems, fuzzy logic;
- Multi-Robot and Multi-Agents, Cooperation and Collaboration;
- CAD-based robotics e.g. CAD-based vision, reverse engineering;
- Robot simulation and visualization tools;
- Tele-autonomous systems;
- Micro electromechanical robots;
- Robot control architectures;
- Robot planning, communication, adaptation and learning;
- Mechanical design;
- Robot soccer;
- Evolutionary Robotics;
- Robots for robotic surgery and rehabilitation;
- Micro/nano robotics, new Devices and materials for robots;
- Recognition and synthesis of voice and natural language generation;
- Education issues in robotics.
- Computing architectures;
- Sensor Networks, architectures of rmbedded Hardware and software;
- Self-Localization, Mapping and Navigation;
- Multi-robot systems;
- Aerial vehicles;
- Mobile robot platforms;
- Underwater robots.

Paper Submission and Review

Papers can be written in **English** or in **Portuguese** and must not exceed **10 pages (WTDR) and 12 pages (CTDR)**, including title, abstract, all tables, figures, and references. Over length submissions will be rejected without review. Authors should use the style file of Springer-Verlag Lecture Notes. More detailed information can be found at:

www.springer.com/computer/lncs?SGWID=0-164-2-72376-0

We expect submission of papers to WTDR with research purposes and appropriate motivation, literature review, and methods. Results (preliminary, at least) are desirable, but not necessary. Submission to CTDR expects papers with concluded work, with evaluation and results.

Papers should include the following information in the first page after the abstract: student level (MSc or PhD) and expected date of conclusion or the date of conclusion (CTDR). Authors must also indicate in the first page if the submission

should be considered in CTDR. In addition, include the name of the advisor (and co-advisors) as co-authors.

Submissions violating the formatting guidelines will be excluded from the reviewing process.

Papers must be submitted using the JEMS system:

https://submissoes.sbc.org.br/

(Select SBR/LARS 2012 conference and then WTDR/CTDR track)

Only papers in pdf format will be accepted.

Papers may be accepted for oral or poster presentation. All WTDR/CTDR accepted papers will be published in CD-ROM proceedings.

At least one author of each accepted paper must be registered and attend the conference to present the work. We recommend that the students present their works, as the events may be a valuable experience for them.

WTDR/CTDR Chairs
Fernando Santos Osório (USP-São Carlos)
Silvia Silva da Costa Botelho (Universidade Federal do Rio Grande)