Robot control technology is widely used for space, surgery, rehabilitation, micro machine, entertainment, underwater, civil engineering, professional and domestic services, security etc. It will continue to play an increasing role in the areas of robot-robot and human-robot cooperation in various dynamic scenarios. Contributions on basic research as well as on relevant applications are included. Organized by the Control, Automation and Robotics Group (GCAR) of the Federal University of Rio Grande do Sul (UFRGS), the IFAC SYROCO 2015 aims to bring together researchers and practitioners working in the fields of control and robotics.

Topics of interest include, but are not limited to:

- Haptic interaction
- Telemanipulation
- Micro/Nano manipulation
- Networked robots
- Robot control: adaptive, robust, learning
- Force and compliance control
- Multi-fingered hand control
- Multi-cooperative robot control
- Sensory based robot control
- Modeling and identification
- Mobile robots and vehicles
- Humanoid robots
- Aerial robots
- Advanced Applications: space, surgery, rehabilitation, entertainment, underwater, civil engineering, security, professional and domestic services, transport and delivery etc.

Papers Papers describing original work are invited. The number of pages and the file size must respect the following limits: 6 pages, 2 MB (up to two additional pages are permitted at an extra charge of € 100 per additional page). More details, instructions and template files for IFAC papers can be found at <http://www.ifac-control.org/events/information-for-ifac-authors>. All paper submissions should be carried out through the official conference manuscript management system at <http://ifac.papercept.net/>.

The submitted papers will go through a peer review process. Accepted papers will be included in the final symposium program provided that at least one of its author completes a full registration fee by the deadline for submission of the final version of the paper.

Invited Sessions The program committee encourages the proposal of invited sessions. In each session, four or six papers will be presented, and these papers must be original, unpublished papers. The invited papers will be reviewed through a regular review process. An organizer will be added as a member of International Program Committee and expected to handle invited papers. The invited person should also register with the same process of regular sessions.

The working language of the symposium is English.

Important Dates:

- **February 15, 2015**
  - Extended deadline for submission of papers
- **March 13, 2015**
  - May 25, 2015:
  - Notification of authors
- **August 3, 2015**
  - Deadline for final papers

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