



Call for papers for
Workshop on Mobility Assistance and Service Robotics

Full Day Workshop
November 9th, 2013, Kumamoto, Japan
Aso Farmland Resort Hotel

Organizers:
Zhencheng Hu, Anne Spalanzani, Philippe Martinet, Fawzi Nashashibi

General Scope

The purpose of this workshop is to discuss topics related to the challenging problems of service robotics, mobility assistance and driving assistance in open and dynamic environments.

The integral assistance systems are robotic modules and technological aids in general for personal assistance, such as robots, mobile bases, electric wheelchairs, soft robot manipulator arm. They can support disabled and elderly people with special needs in their living environment. This workshop will focus on the assistance of human in terms of its mobility and its social interaction.

This workshop offers a track of quality R&D updates from key experts and provides an opportunity in bringing in the new techniques and horizons that will contribute to Mobility Assistance and Service Robotics in the next few years. All submitted papers will be under peer review and accepted papers will be presented in a single track oral sessions and will be published in the workshop proceeding.

Both academia and industries are invited to present their papers dealing with state-of-art research and future developments. The workshop invited original papers on, but not limited to, the following topics:

- Intelligent transportation Systems
- Elderly care assistive robots
- Mobility aids for locomotion or navigation
- Adaptive, learning and robust control
- Nonlinear systems, complex systems, multi-agent systems
- Co-operative control
- Robot companion
- Social interaction
- Multi-modal human-machine interfaces for assistive robotics
- Interaction control of assistive robots

- Human behavioral modeling, human locomotion
- Activity monitoring systems, activity recognition
- Mechatronic design and control of human movements
- Sensor networks, actuator networks, distributive robotics
- Multi-modal perception, new sensors

Important dates

- June 15, 2013 First Call for Paper release
- July 15, 2013 Extended paper abstract due
- Aug. 15, 2013 Notification of acceptance
- Sept. 30, 2013 Full Paper Submission due
- Nov.9, 2013 Workshop

Prospective authors are invited to submit their papers in PDF format.

An extended abstract should be 1-4 pages, contains references, comparisons to related work, proofs of key theorems and other details expected in a research paper. The full paper should be 6-8 pages in the standard IEEE Two-column conference paper format (templates available from IEEE : http://www.ieee.org/conferences_events/conferences/publishing/templates.html) are allowed for each final paper paper including figures.

All extended paper abstract and full paper (in PDF) should be sent to Prof. Hu in Kumamoto University by email. (hu@cs.kumamoto-u.ac.jp)

Organizers

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