

Special Issue on**Rehabilitation Robotics on *Mobility & Manipulation***

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One major application of service robots is in human assistance and rehabilitation. This special issue aims to cover some latest achievements in the field of rehabilitation robotics and assistive technology for the elderly and people with disabilities. Theory and experiments, together with clinical studies, are important to close the gap between engineering and their medical applications.

Significant part of this special issue will be devoted to latest research on clinical assessment of robotics in mobility and manipulation, new rehabilitation technologies, evaluation with end-users, safety, neuro-rehabilitation, and other relevant aspects.

We strongly welcome papers on rehabilitation research, involving *assistive* robots/devices and their evaluation with *clinical-engineering* collaboration. The paper should include - but not limited to - the following topics:

- ✧ Novel robotic systems for rehabilitation and *assistance* in mobility/manipulation
- ✧ Human-centred design methods and *clinical evaluation* of rehabilitation robots
- ✧ Human-robot interaction control and *clinical-based assessment* in rehabilitation application
- ✧ Exoskeletons and operational machines for mobility/manipulation rehabilitation
- ✧ Mechanisms, compliant actuators, and other innovative components for rehabilitation robots

Submission: PDF file of the full-length manuscript should be sent by **August 31, 2010** to the office of Advanced Robotics, the Robotics Society of Japan through the homepage of *Advanced Robotics* (www.advanced-robotics.org). Please select "Special Issue" under Manuscript Category of your submission. All manuscripts must be prepared according to the journal publication guidelines. Sample form of the manuscript is available at the *Advanced Robotics* homepage. Papers will be reviewed following the standard *Advanced Robotics* review process.

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