

CALL FOR PAPERS

Special Session on Compliant Robots

to be held in the frame of
IECON 2013 - The 39th Annual Conference of the IEEE Industrial Electronics Society
10th - 13th of November 2013, Austria Center, Vienna, Austria



TOPIC OF THE SPECIAL SESSION

Actuators for assistive devices and assistive robots are required to be compact, high-power, safe, and compliant. Especially safety issue is big concern when the devices directly interact with humans. Introduction of active or passive compliance in robotic actuation brings several advanced properties, such as robustness, energy efficiency, and safety. The scope of the session ranges from theoretical research to practical design and implementation, including, but not limited to:

- Compliance Control / Force Control of Robotic System
- Compliant Manipulation and Locomotion
- Vision-based Compliant Control
- Design and Control of Soft Robot
- Actuator Design and Control
- Series Elastic Actuators
- Force Sensation and Estimation
- Power-assist System
- Bilateral Control
- Human-Machine Interaction

SPECIAL SESSION ORGANISATION

Yasutaka Fujimoto
fujimoto@ynu.ac.jp

Kiyoshi Ohishi
ohishi@vos.nagaokaut.ac.jp

Naoki Oda
oda@photon.chitose.ac.jp

The organizers look forward to welcoming you to Vienna, Austria from 10th to 13th November 2013.

Important Dates

Regular Paper submission:	April 01, 2013
Notification of acceptance:	June 15, 2013
Final submission:	August 01, 2013



SUBMISSION OF PAPERS

The working language of the conference is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the conference web page. Accepted and presented papers will be published in an IEEE Proceedings volume and will be sent to IEEE Xplore. In addition, selected authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics or in the IEEE Transactions on Industrial Informatics.

THE CONFERENCE

IECON 2013 is the 39th Annual Conference of the IEEE Industrial Electronics Society, focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship.

Papers with new research results are encouraged for submission. IECON 2013

will be held concurrently with the 7th IEEE International Conference on E-Learning in Industrial Electronics (ICE-LIE 2013). Participation in any of these events just requires a single conference registration fee. The world's industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, special sessions and social activities, and furthermore, enjoy beautiful Vienna.