

IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS ICM'17

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Special Session on

“Safety devices for collaborative robots”

Organized by

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Call for Papers

Theme: (100 words)

A large type of current and future social problematics could be addressed by collaborative robotics “cobotics” (medical isolation, home care for dependent and aging persons, arduous manufacturing or agricultural work, ...). However, to be successful, the cobotics field must respond to a number of critical issues such as: ensuring acceptability by dependability and biomimetism, being energy and cost effective, offering modularity (plug and play like technologies), resorting to green energies, comprehend and predict the human behaviour by online modelling, communicating with objects and humans and adapt in real-time,...

This special session aims at reporting on latest researches in the field of safety devices for collaborative robots.

Topics of interest include, but are not limited to:

- Passive compliant mechanism
- VIA (Variable Impedance Actuator)
- On line impedance estimation
- Adaptive control of compliant robots
- New materials for safety device
- Robot Sensor Network/safety strategy

- **Manuscript Preparation and Submission:**

Authors should be aware that papers will follow the rules for paper submission to ICM'17 conference. Please check carefully the style and policy of ICM'17 described in the guidelines "Information for Authors" on the web site <http://www.ieee-icm2017.org/authors.php>

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