

IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS ICM'17

14 - 17 FEBRUARY 2017, GIPPSLAND, AUSTRALIA

Call for Papers for the Special Session on:

Advanced Modeling and Control Strategies for Frictional Systems in Mechatronics

Friction effects are present in nearly all mechanical and mechatronic systems, mostly acting as natural damping but also as highly nonlinear and often non-deterministic disturbing factor in various applications. An appropriate and practice-suitable modelling and control of frictional systems have been and always remain the appealing and challenging topics for both theoretical and applied research in motion control and mechatronics communities. The goal of this Special Session, supported by IEEE IES TCMC, is to provide a field-oriented forum for researchers from academia and industry working with frictional systems in mechatronics, robotics, and machinery, and to present their recent results to the large audience of ICM'17. Topics of interest include, but are not limited to:

- Friction modelling – empirical and control-oriented approaches
- Identification of friction effects in time and frequency domains
- Micro-friction, contact interfaces, and pre-sliding effects
- Adaptive friction control algorithms
- Feed-forward and feedback friction compensation methods
- Nonlinear dynamics, analysis, and stability of frictional systems
- Measurement and observation of friction effects and phenomena

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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