



Call for papers
Focused section on
Modeling and Control of Soft Manipulators

Today, various types of intelligent mechatronic systems are in use or under development for different purposes. Among them, soft manipulator robots have vast potential applications at home, at hospital and/or in industry. In the design of soft manipulators, new concepts often inspired from nature are used and built with soft materials and smart sensors. The IEEE/ASME Transactions on Mechatronics invites papers for a focused section on “Modeling and Control of Soft Manipulators” to present developments in the area of modeling, control and design of soft manipulators. The objective is to investigate new techniques for real-time model-based simulation and control.

The goal of this special issue is to provide a premier forum for researchers to present their recent research results in the area of modeling, control and design of soft manipulator systems. Contributions from industry are also encouraged, and both theoretical and experimental works are welcome. It offers an important opportunity for multidisciplinary work. Topics of interest include mainly:

- Power-based modeling for dynamics of soft manipulators
- Data-based learning approaches for modeling of soft manipulators
- Intelligent controls of soft manipulators
- Real-time simulation of soft manipulators
- Real-time Monitoring of soft manipulators
- Design of soft manipulators
- Rapid prototyping

Manuscript preparation:

Papers must contain original contributions and be prepared in accordance with TMECH standards. Instructions for authors are available online at <http://www.ieee-asme-mechatronics.org/>

Manuscript submission:

Manuscripts should be submitted through the online submission service available at <http://mc.manuscriptcentral.com/tmech-ieee>. The cover letter should report the following statement: “This paper is submitted for possible publication in the focused section on Modeling and Control of Soft Manipulators”. All manuscripts will be subjected to the peer review process. If you have any question relating to this Focused Section, please email one of the Guest Editors.

Important dates:

Paper Submission	January 15, 2016
Completion of First Review	April 15, 2016
Submission of Revised Papers	June 1, 2016
Completion of Final Review	August 1, 2016
Submission of Final Manuscripts and Copyright Forms	September 15, 2016
Publication	December 2016

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