

**MECHATRONICS****Call for Papers****Focused Section on Bio-Inspired Mechatronics**

Biological systems have evolved to find just-good-enough solutions to survive in complex and uncertain environments. By understanding and adapting the underlying principles of these solutions to engineering systems, many new mechatronic systems that can operate in unstructured environments robustly and efficiently have been proposed recently. On the other hand, such bio-inspired mechatronic systems could be used to model complex biological systems to understand them in detail. This Focused Section of the IEEE/ASME Transactions on Mechatronics (TMECH) is dedicated to the new advances in modeling, design, analysis, manufacturing, control, and implementation of bio-inspired mechatronic systems and related technologies. Multidisciplinary papers are encouraged. Potential topics include but are not limited to:

- Bio-inspired locomotion systems
- Bio-inspired mechanism design
- Bio-inspired control methods
- Bio-inspired sensors and actuators
- Bio-inspired manufacturing methods
- Applications of bio-inspired systems
- Modeling of bio-inspired systems

Manuscript Submission

Please submit the manuscripts in PDF format to <http://mc.manuscriptcentral.com/tmech-ieee/>, and indicate on your cover letter that “*This paper is submitted for possible publication in the Focused Section on Bio-Inspired Mechatronics.*” Instructions for authors are available online at: <http://www.ieee-asme-mechatronics.org>. The papers should contain both the theoretical and practical/experimental results and are subject to the TMECH review procedures. If you have any questions relating to this Focused Section, please email one of the guest editors.

Important Dates:	November 1, 2011	Paper Submission
	February 1, 2012	Completion of First Review
	March 15, 2012	Submission of Revised Paper
	June 1, 2012	Completion of Final Review
	July 1, 2012	Submission of Final Manuscripts and Copyright Forms
	October 2012	Publication

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