



# MECHATRONICS

## Call for Papers

Focused Section on

## Mechatronics in Cyber-Physical Systems (MCPS)

Wireless networking, sensing, computing and control advances have changed the way in which society interacts with the physical world. The computational processes are deeply embedded in the physical-world, creating a highly coupled system that has the potential to enhance human safety, mission objectives and system efficiency. In the context of Cyber-Physical Systems (CPS), mechatronic systems, which are becoming highly multidisciplinary, requires an ever-increasing combination of mechanical, electrical/electronic, control and information disciplines. This further offers ample prospects for the integration of various mechatronic components/subsystems, towards enhanced system safety, performance, energy and intelligence. The objective of this Focused Section is to compile recent research and development efforts contributing to advances in mechatronics in Cyber-Physical Systems. The Focused Section also welcomes contributions addressing the state-of-the-art in associated developments and methodologies, and the perspectives on future developments and applications of mechatronics in cyber-physical systems. Manuscripts should contain both theoretical and practical/experimental results. The topics of interest include but not limited to:

- Methodology and tools for design automation of industrial CPS;
- Real-world requirements and constraints analysis of CPS;
- CPS-based design optimization of mechatronic systems;
- Advanced control of mechatronics in the context of CPS
- Experimental validation of mechatronic cyber-physical systems;
- Industrial applications of cyber-physical systems.

### Manuscript preparation

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

### Manuscript submission

Manuscripts should be submitted online at: <https://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 Mechatronics in Cyber-Physical Systems (MCPS)*”. All manuscripts will be subjected to the regular TMECH peer review process. If you have any questions relating to this focused section, please email one of the Guest Editors.

### Important dates

Paper submission:	November 1, 2017
Completion of first review:	February 1, 2018
Submission of revised papers:	March 15, 2018
Completion of final review:	June 15, 2018
Submission of final manuscripts and copyright forms:	July 15, 2018
Scheduled Publication:	October 2018

### Guest Editors

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