Call for Papers

Focused Section on Machine Learning, Estimation and Control for Intelligent Robotics

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The primary objectives of this focused session are (1) to identify challenges and opportunities in learning and control for the creation of intelligent robotic systems, and (2) to disseminate current advances in the field. Papers are invited on original contributions relating to machine learning, estimation, and control for intelligent robotic systems and various applications related. Papers should contain both fundamental advancements and practical/experimental results. Topics include but are not limited to:

- Machine learning and adaptation for robotic systems in manufacturing and other related applications
- Learning and controls with new actuation and/or feedback in robotics, e.g., by leveraging vibrations, augmented reality, and/or heterogeneous sensors
- User intent inference and/or controller design of wearable devices, e.g., exoskeletons and prosthetic devices
- Optimization-based control of ground, underwater, and aerial robots
- New methods of estimation and controller design for physically interactive robot systems, e.g., robot manipulators and legged robotic 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.springer.com/41315.

Manuscript Submission

Manuscripts must be submitted online at: https://www.editorialmanager.com/jira/default.aspx. The cover letter should include the following statement: “This paper is submitted for possible publication in the Focused Section on Machine Learning, Estimation and Control for Intelligent Robotics.” All manuscripts will be subjected to the peer review process. If you have any questions relating to this focused section, please email one of the Guest Editors.

Important Dates

Paper submission: July 15, 2020
- Completion of first review: August 15, 2020
- Submission of revised papers: September 15, 2020
- Completion of final review: October 7, 2020
- Submission of final manuscripts and copyright forms: October 15, 2020
- Publication: December 2020