

Call for Papers

Special Issue on Robotics and Automation for Civil Infrastructure

For several decades, various sensors and sensing systems have been developed for civil infrastructure systems. This special issue focuses on state-of-the-art robotics and automation technologies, including construction automation, robotics, instrumentation, monitoring, inspection, control, and rehabilitation for civil infrastructure. It also covers construction informatics supporting sensing, analysis and design activities needed to construct and operate smart and sustainable built environment.

Examples include robotic systems applied to civil infrastructure equipped with various sensing technologies, such as vision-based sensors, laser sensors, wireless sensors, multi-sensor fusion, etc. Service robots and robotized devices for increasing the usability and safety of built environment are also good examples.

A special issue in these areas will be published in *Smart Structures and Systems* in an effort to diffuse current advances of various robotics and automation technologies for civil infrastructure and built environment. Papers should contain theoretical and/or experimental results and will be subject to formal review procedures. Potential topics include but are not limited to:

- Robotic sensors and actuators for civil infrastructure
- Bio-inspired sensing and actuation for civil infrastructure
- IT for construction automation and robotics
- Structural health monitoring using robotic technologies
- Measurement technology and data fusion of multi-sensor for civil infrastructure
- Mobile sensor network and robotic inspection for civil infrastructure
- Damage repair and emergency handling control of civil infrastructure
- Service robots and robotized devices for built environment

Manuscript preparation:

Papers must contain original contributions and be prepared in accordance with journal standards. Instructions for authors are available online at: <http://technopress.kaist.ac.kr/?journal=sss#>.

Manuscript submission:

Manuscripts should be submitted to a guest editor, Prof. Hyun Myung, via email: hmyung@kaist.ac.kr. The cover letter should mention the following statement: "This paper is submitted for possible publication in the special issue on **Robotics and Automation for Civil Infrastructure**." All manuscripts will be subjected to the peer review process. If you have any question relating to this special issue, please email one of the Guest Editors.

Important dates:

Paper Submission	October 31, 2013
Completion of First Review	December 31, 2013
Submission of Revised Papers	January 31, 2014
Completion of Final Review	February 28, 2014
Submission of Final Manuscripts and Copyright Forms	April 30, 2014
Publication	May, 2014

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