

Special Issue

Large Scale Cooperative Systems: Control Theory and Applications

Message from the Guest Editors

Over the past few years, we have seen increasing interest in the study of large-scale multi-vehicle systems, with applications in engineering and science problems. This interest is largely motivated by the advent of powerful and miniaturized embedded systems, sensors, and communication networks. This Special Issue aims at collecting new theory, developments, methodologies, and applications of large-scale multiple autonomous ground, marine, and aerial systems. We welcome submissions that provide the community with the most recent advancements on all aspects of large-scale cooperative systems. These include, but are not limited to, multi-agent coordination, cooperative control, flocking, swarming and counter-swarming, consensus, formation, multi-agent motion planning and collision avoidance, cooperative learning, and graph-related theory. Also relevant are the applications of the theory developed in the areas of multi-vehicle systems for spacecraft, aerial vehicles, ground robots, and maritime vehicles. Such applications include multi-agent target localization, object recognition, search and rescue, communications, defense, and transportation, to mention but a few.

Guest Editors

Dr. Venanzio Cichella

Dr. Claire Walton

Prof. Dr. Isaac I. Kaminer

Deadline for manuscript submissions

closed (30 September 2023)



Automation

an Open Access Journal
by MDPI

Impact Factor 2.0
CiteScore 4.1



mdpi.com/si/152152

Automation
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
automation@mdpi.com

[mdpi.com/journal/
automation](https://mdpi.com/journal/automation)





Automation

an Open Access Journal
by MDPI

Impact Factor 2.0
CiteScore 4.1



[mdpi.com/journal/
automation](https://mdpi.com/journal/automation)



About the Journal

Message from the Editor-in-Chief

Automation (ISSN 2673-4052) is an international peer-reviewed open access journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of automation and control system. Both experimental and theoretical papers are published, including all aspects of manufacturing systems, energy management systems, aerospace control systems, learning systems, intelligent control systems and so on. *Automation* organizes Special Issues devoted to specific automation and controlling areas and applications each year.

Editor-in-Chief

Prof. Dr. Eyad H. Abed

Department of Electrical and Computer Engineering and the Institute for Systems Research, University of Maryland, College Park, MD 20742, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Reliable Service:

rigorous peer review and professional production.