

## 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.

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### Guest Editors

Dr. Venanzio Cichella

Dr. Claire Walton

Prof. Dr. Isaac I. Kaminer

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### Deadline for manuscript submissions

closed (30 September 2023)



## Automation

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*Automation*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[automation@mdpi.com](mailto:automation@mdpi.com)

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## 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, micro- and nano-systems, learning systems, intelligent control systems and so on. *Automation* organizes Special Issues devoted to specific automation and controlling areas and applications each year.

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### 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

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