



Networked Predictive Control for Complex Systems

Guest Editors:

Prof. Dr. Nicola Epicoco

Prof. Dr. Raffaele Carli

Prof. Dr. Graziana Cavone

Dr. Domenico Bianchi

Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editors

The rapid evolution and diffusion of information and communication technologies are leading to the implementation of complex networked systems that rely on communication, computation, and control techniques for their proper functioning.

In this context, researchers are interested in developing novel control methods for network-centric complex systems. The concept of networked control systems has thus been introduced, which refers to a distributed real-time feedback control system that integrates sensors, controllers, actuators and communication networks. In this perspective, the control of networked systems implies that the network used for the communication of the control actions is general purpose and used for various simultaneous applications; moreover, the functionalities of the control level must be diversified from the pure automatic control. Consequently, it becomes challenging to ensure real-time communications in the whole system and to guarantee high performance and stability.





an Open Access Journal by MDPI

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

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.

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.

Contact Us

Automation Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/automation
automation@mdpi.com