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.

Special Issue

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

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