



Data-Driven Control System: Methods and Applications

Guest Editors:

Dr. Wenfeng Hu

School of Automation, Central
South University, Changsha
410000, China

Dr. M. (Meichen) Guo

Delft Center for Systems and
Control, Delft University of
Technology, 2600 Delft, The
Netherlands

Deadline for manuscript
submissions:

30 December 2024

Message from the Guest Editors

This Special Issue aims to cover a wide array of topics within data-driven control systems, including, but not limited to, the following: development and application of machine learning algorithms for real-time control, adaptive control mechanisms that learn from data in situ, and the utilization of big data analytics for enhancing control strategies. Additionally, we are interested in papers that explore the integration of IoT technologies with control systems to push the boundaries of automation and efficiency, as well as research that addresses the challenges of security, privacy, and robustness in these systems.

Specific areas of focus include advanced algorithmic solutions that facilitate predictive and adaptive control, techniques for managing and analyzing massive datasets in real-time to improve system responses, and the design of resilient architectures that support the demands of data-intensive, high-performance control applications. Theoretical explorations that ensure stability and reliability in control systems, along with practical applications demonstrating significant enhancements in sectors such as manufacturing, robotics, and smart grids, are particularly welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)