

Special Issue

Augmented Control: Algorithms and Applications

Message from the Guest Editors

The convergence of traditional control theory with cutting-edge technologies such as artificial intelligence, machine learning, and augmented reality has given rise to a new paradigm—augmented control. Topics of interest include, but are not limited to, the following:

- AI and ML-based control systems: Reinforcement learning, neural networks, and deep learning for adaptive and predictive control.
- Human-in-the-loop control: Augmented reality interfaces, haptic feedback, and human-machine collaboration.
- Cyber-physical systems: Integration of IoT, edge computing, and real-time control for smart environments.
- Robust and resilient control: Fault-tolerant algorithms, uncertainty handling, and security-enhanced control strategies.
- Autonomous systems: Self-learning controllers for drones, robotic swarms, and unmanned vehicles.
- Industrial applications: Industry 4.0, digital twins, and intelligent automation in manufacturing.
- Biomedical and healthcare systems: AI-driven control for prosthetics, surgical robots, and personalized medicine.

Guest Editors

Dr. Lei Ma

School of Information and Control Engineering, China University of Mining and Technology, Xuzhou 221116, China

Dr. Guoqing Wang

School of Information and Control Engineering, China University of Mining and Technology, Xuzhou 221116, China

Deadline for manuscript submissions

31 May 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/248234

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

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).