

Special Issue

Mathematical Methods on Control Engineering in Mechatronics: Advances and Challenges

Message from the Guest Editor

The proposed Special Issue aims to highlight the latest advances and challenges in the application of control engineering in mechatronics. The Special Issue will focus on the following topics:

- Advanced control algorithms for mechatronic systems, including model predictive control, adaptive control, and nonlinear control;
- The control of multi-domain systems, such as systems with mechanical, electrical, and thermal domains;
- The control of uncertain systems, including systems with parametric uncertainty, unmodeled dynamics, and nonlinearities;
- The control of networked mechatronic systems, including distributed control, cooperative control, and communication networks;
- Applications of control engineering in mechatronics, including robotics, autonomous systems, and smart manufacturing;
- Applications of control engineering in stationary energy storage systems.

The Special Issue will be of interest to researchers and practitioners in the fields of control engineering, mechatronics, robotics, and related fields. The Special Issue will provide a comprehensive overview of the latest advances and challenges in the application of control engineering in mechatronics.

Guest Editor

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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).