



Mathematical Methods on Control Engineering in Mechatronics: Advances and Challenges

Guest Editor:

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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.





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Message from the Editor-in-Chief

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