



an Open Access Journal by MDPI

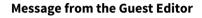
# Mathematical Methods on Control Engineering in Mechatronics: Advances and Challenges

Guest Editor:

### Dr. Aydin Azizi

School of Engineering, Computing and Mathematics, Oxford Brookes University, Wheatley Campus, Wheatley, Oxford OX33 1HX, UK

Deadline for manuscript submissions: **31 October 2024** 



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.





mdpi.com/si/166586





an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Francisco Chiclana

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

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

### **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), RePEc, and other databases. **Journal Rank:** JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics )

### **Contact Us**

*Mathematics* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/mathematics mathematics@mdpi.com X@MathematicsMDPI