



## Advanced Motion Control and Planning Techniques of Complex Mechatronic Systems

Guest Editors:

**Dr. Wenxiang Deng**

School of Mechanical Engineering, Nanjing University of Science and Technology, Nanjing 210094, China

**Dr. Zhangbao Xu**

College of Mechanical Engineering, Anhui University of Technology, Ma'anshan 243002, China

**Dr. Yaoyao Wang**

College of Mechanical and Electrical Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing 210016, China

Deadline for manuscript submissions:

**closed (30 April 2023)**

### Message from the Guest Editors

This Special Issue is committed to compiling recent research about advanced motion control and the planning of complex mechatronic systems. Manuscripts should contain both theoretical and simulation/experimental results and will be subject to *Electronics'* normal review procedures. The topics of interest within the scope of this Special Issue include (but are not limited to) the following:

- Nonlinear control methodologies for complex mechatronic systems including adaptive control, robust control, state and disturbance observer-based control, and other nonlinear control methods;
- Data-driven control;
- Reinforcement learning;
- Fault diagnosis and fault-tolerant control;
- Motion planning algorithms;
- Design and analysis of complex mechatronic systems;
- Modeling and system identification of complex mechatronic systems;
- Trajectory optimization.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## 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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)