



## Advanced Mechatronic Technologies in Industry 4.0 Era: Intelligent Systems, Advanced Control and Automation

Guest Editors:

**Prof. Dr. Iliana Marinova**

Department of Electrical  
Apparatus, Faculty of Electrical  
Engineering, Technical University  
of Sofia, 1000 Sofia, Bulgaria

**Dr. Valentin Mateev**

Department of Electrical  
Apparatus, Technical University  
of Sofia, 1156 Sofia, Bulgaria

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

In recent years, the Industry 4.0 concept has opened a new horizon for advanced technologies for control and automation, essentially for mechatronic intelligent systems. Digitalization on each level of the process opens new possibilities for resource and energy efficiency enhancement and increased needs of intelligent, autonomous automation. New mechatronic technologies and designs are essential parts of this development.

This Special Issue is focused on recent advances in intelligent systems, control and automation for green energy conversion, energy-efficient electromechanical devices, the digitalization of information and communication, the application of artificial intelligence, internet of things, as well as new magnetic materials and cyber-physical systems to meet the requirements of Industry 4.0.

Advanced Mechatronic Technologies in Industry 4.0 Era:  
Intelligent Systems, Advanced Control and Automation

Welcomed to contribute!





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)