



## Modern Mechatronics and Automation—An Open-Source Approach

Guest Editor:

### Dr. Trung Dung Ngo

The More Than One Robotics  
Laboratory, University of Prince  
Edward Island, 550 University  
Ave, Charlottetown, PE C1A 4P3,  
Canada

Deadline for manuscript  
submissions:

**closed (15 April 2020)**

### Message from the Guest Editor

Nowadays, we can see modern mechatronic systems and automation everywhere, from industrial manufacturing to home automation. Using open-source hardware and software to rapidly prototype and develop mechatronic and automated systems has been well recognized by technological developers. Open-source electronic platforms, such as Arduino and Raspberry PI boards, as well as its compatible devices, have become a part of teaching and research activities at universities. The trend of shared source codes and documentation on web-based software platforms (e.g., Github), allowing professionals and amateurs to access and collaborate their intellectual works, has been promoted and implemented at not only open-source communities, but also in leading technological corporations. The technological and social impacts of open-source hardware and software in mechatronics and automation are not deniable.

The aim of this Special Issue is to gather the most recent methodologies, technologies, and applications of open-source hardware and software in modern mechatronics and automation.





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)