

## Special Issue

# Intelligent Control and Applications for Robotics

### Message from the Guest Editor

Robotics can help automate tasks that are repetitive, dangerous, or vulnerable to human error. More and more applications in totally different fields, like UAV, AUV, drones, mobile robots, space robots, for instance, make the robotics more versatile and further complicated. However, automation without intelligence creates a system that cannot respond to variables, new environments, or dynamic requirements. With advanced decision, planning, and control schemes, the plants will enrich the application scenarios. The aim of this Special Issue is to bring together original research on the related topics. Potential topics include Aerial Robotics, marine robotics, space robotics, and mobile robotics of the following aspect, but are not limited:

- Advanced control algorithms
- Intelligent decision and motion planning
- Autonomous navigation and planning
- Contact dynamic modeling
- Sensors fusion and estimation
- Multi-agents planning and control
- Collaborative manipulation
- Learning and classifying algorithms
- Advanced robotics design and applications

---

### Guest Editor

Dr. Fan Zhang

The Research Center for Intelligent Robotics, School of Astronautics, Northwestern Polytechnical University, Xi'an 710072, China

---

### Deadline for manuscript submissions

closed (30 August 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/112632](https://mdpi.com/si/112632)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

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

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )