

## Special Issue

# Advanced Technology of Intelligent Control and Simulation Evaluation

### Message from the Guest Editors

Intelligent control and simulation evaluation have experienced rapid development during the last few decades. Due to the occurrence of complex networked control systems, traditional control and evaluation approaches face new challenges, such as strong coupling, serious nonlinearity, complex uncertainty, wasteful energy consumption, and weak safety. This results in more intelligent control and simulation evaluation approaches urgently needing to be proposed to guarantee control performance. To this end, learning mechanisms, adaptive neural network/fuzzy approximation, expert experience, and some other advanced technologies are integrated into traditional control approaches. The purpose of this Special Issue is to present a collection of articles showing novel developments and results in intelligent control and simulation evaluation. Topics of interest include, but are not limited to the following:

- Learning-based control;
- Adaptive neural network control;
- Adaptive fuzzy control;
- Expert control;
- Intelligent control and decision;
- Intelligent control and optimization;
- Simulation evaluation and performance analysis.

---

### Guest Editors

Prof. Dr. Mingyang Guo

Dr. Jiang Long

Dr. Qingdong Li

Dr. Zun Liu

---

### Deadline for manuscript submissions

closed (14 April 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/127545](https://mdpi.com/si/127545)

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

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





# 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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