

## Special Issue

# Machine Learning in Biomedical Images, Signals and Data Processing

### Message from the Guest Editors

Biomedical image, signal, and data processing is making great strides in machine learning applications and offers many opportunities to improve the quality of related biomedical research. We welcome submissions of applications of various types of biomedical images, signals, and data combined with the implementation of the latest machine and deep learning methods, and propose innovative methods to solve existing imaging/data challenges in the biomedical and health fields. Topics of interest include, but are not limited to:

- Machine learning or deep learning algorithms for biomedical image, signal and data processing applications;
- Disease classification and prognosis prediction based on biomedical image, signal and data processing;
- Segmentation and anomaly detection based on biomedical images;
- Biomedical image denoising and quality improvement;
- Biomedical image, signal and data processing for therapy monitoring;
- Big data or multimodal data processing for predicting clinical outcomes;
- Biomedical image quality assessment;
- Disease severity assessment based on biomedical image, signal and data processing.

---

### Guest Editors

Prof. Dr. Tsair-Fwu Lee

Dr. Jack Yang

Dr. Chih-Hsueh Lin

---

### Deadline for manuscript submissions

closed (31 March 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/143954](https://mdpi.com/si/143954)

*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 )