



an Open Access Journal by MDPI

## Deep and Machine Learning for Image Processing: Medical and Non-medical Applications

Guest Editors:

**Dr. Mohamed Shehata**

Department of Bioengineering,  
Speed School of Engineering,  
University of Louisville, Louisville,  
KY 40292, USA

**Prof. Dr. Mostafa Elhosseini**

Computers and Control Systems  
Engineering, Faculty of  
Engineering, Mansoura  
University, 35516 Mansoura,  
Egypt

Deadline for manuscript  
submissions:  
**closed (31 January 2024)**

### Message from the Guest Editors

Dear Colleagues,

The new era and recent advances in machine and deep learning approaches have been widely used as indispensable tools in modern artificial intelligence-based image processing systems to perform medical or non-medical tasks. Such systems have proven themselves to be reproducible and have the generalization ability to solve unseen problems and adapt to new conditions.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Image processing;
- Image localization;
- Object detection;
- Object tracking;
- Medical imaging;
- Image segmentation using deep learning;
- Applying deep learning for image registration;
- AI-based diagnostic systems;
- AI-based predictive systems;
- AI-based healthcare.

We look forward to receiving your contributions.



[mdpi.com/si/142884](https://mdpi.com/si/142884)

# Special Issue



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 guestedited 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 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic 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)