

## Special Issue

# Application of Machine Learning to Imaging

### Message from the Guest Editor

Imaging (e.g., Magnetic Resonance Imaging) has provided very useful information for multiple fields of science, but the technological improvements associated with Imaging data-processing have seen very few practical applications (e.g., clinical applications). A possible facilitator of the use of advanced imaging data-processing technologies is Artificial Intelligence (AI), such as the use of machine learning running in Graphical Processing Units (GPUs). The goal of this publication is to publicize cases where advanced technologies of imaging data-processing have been used in practical settings. The most advanced imaging technique used in practical settings usually involves AI, and there are interesting recent developments of AI that involve the use of Ontologies to obtain Explainable AI (xAI), as well as other recent improvements.

---

### Guest Editor

Dr. Nicolas Lori

ALGORITMI Research Center, School of Engineering, Gualtar Campus, University of Minho, 4710-057 Braga, Portugal

---

### Deadline for manuscript submissions

closed (25 October 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/95197](https://mdpi.com/si/95197)

*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/](https://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 )