

## Special Issue

# Advances in Medical Image Analysis and Computer-Aided Diagnosis

### Message from the Guest Editor

Medical image analysis aims to increase the efficiency of clinical examination and medical intervention. Medical imaging refers to several different technologies that are used to view the human body in order to diagnose, monitor, or treat medical conditions. Each type of technology gives different information about the area of the body being studied or treated, related to possible disease, injury, or the effectiveness of medical treatment.

Computer-aided diagnosis is an interdisciplinary effort that joins radiological and pathology image processing with computer vision and artificial intelligence in order to identify disease. The objective of this Special Issue is to generate a comprehensive understanding of medical AI and biosensors in clinical applications. It will also highlight recent advances in the diverse implementations in healthcare management and monitoring. Authors are invited to submit outstanding and original unpublished research manuscripts focused on the latest findings in this field.

### Guest Editor

Dr. Valentin Sebastian Schäfer

Associate Professor of Internal Medicine, Head of the Department of Rheumatology and Clinical Immunology, Head of the Ultrasound Diagnostic Centre, Speaker of the Centre for Rare Rheumatological Diseases, Department of Internal Medicine III/Oncology, Hematology, Rheumatology and Clinical Immunology Building 20 – Zentrum für Integrative Medizin, University Hospital Bonn/Venusberg Campus, 53127 Bonn, Germany

### Deadline for manuscript submissions

closed (30 September 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/122220](https://mdpi.com/si/122220)

*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/](https://mdpi.com/journal/)

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





# 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 )