

Special Issue

Computational Models and Machine Learning for Biomedical Applications

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research on computational models and machine learning methods that address key challenges in contemporary biomedicine and healthcare. We invite contributions that develop novel algorithms, robust computational frameworks, and clinically relevant applications for medical screening, diagnostic support, risk prediction, patient monitoring, and therapeutic decision-making.

Topics of interest include, but are not limited to, medical image and signal analysis; computational pathology; genomics and other high-throughput omics; digital and personalized medicine; and AI-driven drug discovery and therapy optimization.

Guest Editors

Prof. Dr. Mariusz Pelc

Institute of Computer Science, University of Opole, 45-758 Opole, Poland

Dr. Aleksandra Kawala-Sterniuk

Department of Artificial Intelligence, Wrocław University of Science and Technology, 50-370 Wrocław, Poland

Deadline for manuscript submissions

30 August 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/266190

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/

[applsci](https://doi.org/10.3390/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)