

## Special Issue

# Advances in Machine Learning for Healthcare Applications

### Message from the Guest Editors

The healthcare sector is undergoing a transformative shift with machine learning (ML), providing significant opportunities for enhanced patient care and research support. The "Advances in Machine Learning for Healthcare Applications" Special Issue highlights recent breakthroughs in ML within healthcare, emphasizing knowledge exchange and exploring obstacles. ML algorithms efficiently extract insights from diverse healthcare data for precise diagnostics, tailored treatments, and predictive analytics. The issue addresses ethical considerations, aiming to balance data leverage for health improvement with the protection of patient privacy. Contributions, including original research, reviews, and case studies, deepen understanding of ML and AI capabilities and constraints in healthcare, fostering ongoing advancements and collaboration in this critical field. Keyword: machine learning in healthcare; clinical workflow optimization; predictive analytics in medicine; healthcare data analysis; personalized treatment planning; medical diagnostic algorithms; AI ethics in healthcare; patient data privacy; interdisciplinary collaboration in health AI; healthcare AI regulation and policy

---

### Guest Editors

Dr. Hugo Peixoto

Knowledge Engineering Group, Algoritmi, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Dr. Júlio Duarte

Intelligent Data Systems, Algoritmi, University of Minho, Campus de Azurém, 4800-058 Guimarães, Portugal

---

### Deadline for manuscript submissions

closed (30 September 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/194952](https://mdpi.com/si/194952)

*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 )