## Special Issue

## Machine Learning for Advanced Healthcare: Bridging Innovation and Clinical Implementation

## Message from the Guest Editors

This Special Issue aims to bridge the gap between ML advancements and their actual implementation in healthcare; specifically, it focuses on the development and application of interpretable ML frameworks in real-world clinical settings. We invite submissions presenting explainable Al strategies, multi-source data integration, and interpretable solutions to support early diagnosis, monitoring, and predictive modelling of disease progression. Studies addressing challenges in data integration, model interpretability, physician–Al interaction, and privacy-preserving approaches are highly encouraged. Potential topics include, but are not limited to:

- ML models to support early diagnosis and disease progression monitoring;
- Wearable technologies and sensor-based data analysis;
- Interpretable methods for sleep, motor, and cognitive assessments;
- Multimodal data integration and fusion;
- Explainable AI for clinical decision-making;
- ML for remote monitoring and telemedicine;
- Predictive models for personalized treatment;
- Federated learning and privacy-preserving ML;
- Big data in healthcare and e-Health;
- Generalizability, interpretability, and visualization in healthcare.

#### Guest Editors

Dr. Irene Rechichi

Dr. Silvia Seoni

Dr. Sujit Kumar Sahu

## Deadline for manuscript submissions

30 June 2026



# **Algorithms**

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 4.5



mdpi.com/si/236000

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

mdpi.com/journal/algorithms





## **Algorithms**

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 4.5



## **About the Journal**

## Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

### Editor-in-Chief

#### Prof. Dr. Frank Werner

Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

#### **Author Benefits**

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

### Journal Rank:

JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Numerical Analysis)

