

Special Issue

Health and Public Health Applications for Decision Support Using Machine Learning

Message from the Guest Editors

Well-tuned sensors optimized to translate bioinformation into the digital world are constantly evolving. This kind of technology provides improved data on humans, monitors the influence of the environment on humans and public health, and provides an excellent tool supporting the diagnosis of several diseases. Such devices can acquire data from a wide range of sources; with the help of high-level signals and image processing techniques, they can extract valuable data to feed artificial intelligence system models, with the aim of supporting decision making in various areas. This Special Issue is dedicated to covering the latest findings and emerging concepts relating to sensors and machine learning applications in health and public health areas. Topics may include, but are not limited to, the following:

- Signals: EEG, EMG, ECG, and evoked potential analysis;
- Medical imaging: X-ray, PET, CT, MRI, and SPECT;
- Epidemiological and environment data: temperature, humidity, NOx, pH, VOC signals, and epidemiological time series and their relationship with health and public health;
- Wearable applications.

Guest Editors

Prof. Dr. Pedro Miguel Rodrigues
Dr. João Alexandre Lobo Marques
Prof. Dr. João Paulo do Vale Madeiro

Deadline for manuscript submissions

closed (31 March 2023)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/125269

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

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).