

## Special Issue

# Intelligent Wearable and Implantable Devices for Biomedical Applications

### Message from the Guest Editors

This Special Issue on “Intelligent Wearable and Implantable Devices for Biomedical Applications” will focus on original research papers and comprehensive reviews, dealing with circuits and systems techniques for intelligent wearable and implantable devices. A system such as this includes not only neuromorphic computing but also its interface and front-end design. Topics of interest for this Special Issue include, but are not limited to, the following:

- Bio-inspired and neuromorphic circuits and systems;
- Spiking neural networks and temporal processing;
- Brain-computer interfaces;
- Emerging technologies for neuromorphic computation;
- Implantable and wearable health devices and systems;
- Biosensor and interface circuits;
- Biotelemetry circuits and systems;
- Bioelectronics;
- Electrical stimulation, neuromodulation, and closed-loop systems;
- Organic semiconductors.

---

### Guest Editors

Dr. Milad Zamani

ICELab, Department of Electrical and Computer Engineering, Aarhus University, 8200 Aarhus, Denmark

Prof. Dr. Dante Mantini

Department of Movement Sciences, KU Leuven, 3000 Leuven, Belgium

---

### Deadline for manuscript submissions

31 July 2025



**Bioengineering**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.7**  
**CiteScore 5.3**  
**Indexed in PubMed**



[mdpi.com/si/213678](https://mdpi.com/si/213678)

*Bioengineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[bioengineering@mdpi.com](mailto: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 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

#### Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.