

## Special Issue

# Wearable Electronics for Assessing Human Motor (dis)Abilities

### Message from the Guest Editors

The study of human postural, gesture, and gait control systems has a great impact in rehabilitation, sports, and medicine, especially for a concrete objective support to the diagnosis and follow-up, related to diseases involving a reduction in balance and motion abilities.

Electronics can implement, among others, electromyography (EMG, to provide information on muscular activity), inertial measurement units (IMU, to supply information on movement, velocity, rotation and orientation of body segments), flex sensors (FS, to determine angular values of human joints), etc., as wearable systems. Proper electronic treatment of signals, acquired by means of wearable systems, for noise and artifact removal, together with smart algorithms and statistical techniques for data processing and parameter extraction, allows optimum signal representation. The combination of such signals results in a more informative content in that domain for the application at hand. Topics of this special issue include but not limited to:

- Electromyography
- Inertial sensors
- Electronics for sensor fusion
- Wearable sensor system
- Analysis of balance and motion ability and disorders

---

### Guest Editors

Prof. Dr. Fernanda Irrera

Prof. Dr. Giovanni Saggio

Dr. Vito Errico

Dr. Ivan Mazzetta

---

### Deadline for manuscript submissions

closed (31 December 2021)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/38450](https://mdpi.com/si/38450)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

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





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



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



## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di  
Torino, 10129 Torino, Italy

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /  
SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q1 (Electrical and Electronic Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).