

# Special Issue

## Advanced Technologies and Challenges in Brain Machine Interface

### Message from the Guest Editor

The concept of the brain-machine interface (BMI) has existed for decades. Indeed, there is little doubt that BMI, if matured, could be used in every conceivable aspect of our daily life. With the rapid advancements in machine learning techniques, there has been a growing interest in further facilitating the utility of BMI outside the laboratory environments. Nevertheless, most of the existing BMI methods heavily rely on the use of electroencephalography (EEG), which involves several technological difficulties—namely, adequate placing and type of the electrodes, signal quality control for the acquired EEG, and proper, real-time interpretation of the EEG. These well-known yet still prevalent problems have been significantly hindering the active implementation of the BMI in industrial fields. This Special Issue calls for original research papers that address the aforementioned issues of EEG, and further, studies that propose novel methods for non-EEG-based or multimodal BMI. We are also interested in review articles focusing on recent advancements in BMI applications and/or the use of machine learning techniques in the development of BMI.

---

### Guest Editor

Prof. Dr. Dong-Joo Kim

Department of Brain and Cognitive Engineering, Korea University, Seoul 136-701, Republic of Korea

---

### Deadline for manuscript submissions

closed (30 October 2021)



# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/41149](http://mdpi.com/si/41149)

*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](http://mdpi.com/journal/electronics)





# Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](http://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 guestedited 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), CAPIPlus / 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 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

