electronics

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 6.1

Advanced Technologies and Challenges in Brain Machine Interface

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)

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.

electronics

IMPACT FACTOR 2.6

CITESCORE 6.1

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.
Journal Rank: JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
𝕏@electronicsMDPI