sensors

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

Indexed in: PubMed

CITESCORE 7.3

Brain-Computer and Brain-Machine Interfaces: Advances in EEG Acquisition, Processing and Machine Learning Technologies towards Better Usability

Guest Editors:

Prof. Natsue Yoshimura

Dr. Ludovico Minati

Dr. Masaki Nakanishi

Dr. Fernando E. Rosas

Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editors

Recent developments in data acquisition and processing technology for electroencephalography (EEG), alongside new filtering and machine learning methods, are helping to improve the decoding performance of simplified, low electrode-count EEG systems. These developments have the potential for expanding the scope and potential clinical applicability of EEG-based Brain-Computer and Brian-Machine Interfaces (BCI, BMI). To further accelerate this trend and enhance practical viability and thus social impact, it is necessary to conjointly explore multiple innovation avenues. Under this overarching aim, the special issue addresses all types of EEG-based neural decoding infrastructure aimed at BCI and BMI, including but not limited to the following: Adaptive and non-linear decoding techniques; Advances in real-time processing technology, including artefact reduction and electrode fault mitigation; Advances in sensor, front-end and other hardware technologies, including practical circuits; Advances in all engineering aspects of low-cost, wearable devices, including human-centric design; etc.

sensors

IMPACT FACTOR 3.4 | Indexed in: PubMed | CITESCORE 7.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
𝕏@Sensors_MDPI