Special Issue

EEG Analysis and Brain–Computer Interface (BCI) Technology

Message from the Guest Editors

Brain–computer interface (BCI) plays an important role in intelligent interaction systems, which refers to the direct communication link between the brain and external types of equipment to realize information exchange. As one of the most important research fields in intelligence science, BCI has acquired great improvements and potential applications in various fields such as rehabilitation, affective computing, neuroscience, robotics, and gaming. The aim of this Special Issue is to present advanced research in the field of BCI, and to highlight major open questions to address the outstanding challenges in EEG signal analysis as well as BCI technology. Papers that address innovative applications and algorithms related to EEG analysis and BCI technology are welcome. Topics of interest include, but are not limited to, the following:

- BCI paradigm including MI, SSVEP, P300, etc;
- EEG signals analysis;
- EEG-based affective computing;
- EEG-based auditory attention decoding;
- EEG-based neuroimaging and neural mechanism;
- Other brain–computer interface technologies.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2025)

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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

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