Special Issue

Advances in Artificial Intelligence and Machine Learning for BCI/BMI

Message from the Guest Editors

The brain-computer interface (BCI), also called the brain-machine interface (BMI), is an emerging technology involving software and hardware communication systems allowing the use of brain activity to control external devices such as computers, robots, and machines. BCI systems translate the activity of the brain to conduct an action or a command that will be executed by the external device. Artificial intelligence (AI)/machine learning (ML) has received great attention for the development of BCI applications to solve difficult problems in several domains, in particular, medical and robotic fields. AI/ML has since become the most efficient tool for BCI systems. This Special Issue aims to solicit original research papers as well as review articles focusing on recent advances in AI/ML for BCI research. The main topics include, but are not limited to, the following:

- Brain-computer interface (BCI)/Brain-machine interface (BMI)
- Artificial intelligence in BCI/BMI
- Machine learning in BCI/BMI
- Deep learning in BCI/BMI
- Brain signal processing for BCI/BMI
- Neurofeedback
- Neural Rehabilitation Engineering
- Related applications

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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