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Sensors for Brain-Computer Interface

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closed (15 January 2022)

Message from the Guest Editor

The study of brain–computer interfaces (BCIs) is a continuously growing research trend that originated in an attempt to permit subjects with severe neuromuscular disorders to communicate and interact with the world around them.

This Special Issue will explore the advances, challenges, and future prospects associated with the following topics:

- Invasive and non-invasive acquisition and stimulation devices for brain–computer interfaces (e.g., new biosignal headsets, active dry electrodes, neurostimulation systems, and implantable technology);
- Online artifact rejection systems (e.g., design and implementation of real-time systems for artifact rejection in mobile BCI (MoBI) and near-sensor rejectors for physiological and non-physiological artifacts);
- Brain–computer interface applications (e.g., e-health, remote monitoring, ambient assisted living, emotional and cognitive assessment, emotion recognition, neuro-rehabilitation, biosecurity);
- Computing architecture improvements oriented to BCI application (e.g., memory optimization algorithms of electronic control units, new transmission protocols, real-time biosignal computing, and cloud-computing).



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Special Issue



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Message from the Editor-in-Chief

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