

Special Issue on
**Systems and Devices Developed Based on Brain Signals
for Healthcare Applications**

CALL FOR PAPERS

Recent advances in brain signal (electroencephalogram, EEG) recording techniques, signal processing methods, and faster and smaller data processors create a great potential for developing new systems and devices that can be used for healthcare applications. For example, the Brain-Computer Interface (BCI), a system that links brain signal activation to a processing unit (computer), has gained a lot of attention in the past few years.

There have been many applications of a BCI system from enabling locked-in patients to communicate to controlling a robot or devices by patients. Neurorehabilitation is another example of the use of EEG signals in healthcare applications where brain signals are used to improve the performance of patients after stroke or concussion.

In this special issue, we would like to invite authors to describe state-of-the-art devices and systems including methods and techniques that they have developed based on brain signals and explain how these devices would be useful in healthcare applications.

Potential topics include but are not limited to the following:

- ▶ BCI (hardware, paradigm, signal processing, and new applications)
- ▶ Neurorehabilitation
- ▶ Memory and performance enhancement
- ▶ Concussion and brain injury
- ▶ Decision support systems
- ▶ Stroke
- ▶ Epilepsy and seizure
- ▶ Personalized medicine

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jhe/sddb/>.

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