

Special Issue

Applications and Methods of Brain-Computer Interface Technology in Health and Wellness

Message from the Guest Editors

With recent advancements in biotechnology, we are seeing a wave of brain-computer interface (BCI) technologies that are capable of non-invasively measuring a range of health and wellness phenomena in humans, and using that information to help support the individual to improve overall health. With these emerging BCI sensor technologies, not only can we measure and investigate the neural mechanisms underlying important health and wellness phenomena (e.g., stress, chronic pain, addiction, traumatic brain injury) in the brain, but we can develop techniques to promote wellness across a broad range of applications. The BCI field has made rapid advancements in recent years, with sensing technologies such as functional near-infrared spectroscopy (fNIRS), electroencephalography (EEG), magnetoencephalography (MEG), and functional magnetic resonance imaging (fMRI), all contributing to sensing and measurement of the human brain. This special issue is focused on empirical studies, methods, and applications of BCI technologies to benefit general health and wellness.

Guest Editors

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