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Brain-Computer Interfaces for Human Augmentation

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Message from the Guest Editors

The field of Brain-Computer Interfaces (BCIs) has grown rapidly in recent few decades, allowing the development of faster and more reliable assistive technologies based on direct links between the brain and an external device. Novel applications of BCIs have also been proposed, especially in the area of human augmentation. Brainimaging techniques, such as electroencephalography, have been used to extract neural correlates of various brain processes and transform them, via machine learning, into commands for external devices. Brain stimulation technology has allowed to trigger the activation of specific brain areas to enhance the cognitive processes associated to the task at hand, hence improving performance. BCIs have therefore extended their scope from assistive technologies for people with disabilities to neuro-tools for human enhancement

This Special Issue aims at showing the recent advances in BCIs for human augmentation, highlighting new results on both traditional and novel applications.









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Message from the Editor-in-Chief

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