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Current Status and Development on the Brain–Computer Interface

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Message from the Guest Editors

The technology behind BCIs involves a complex interplay of neuroscience, cognitive science, engineering, and computer science. Despite the significant advancements made in recent years, several challenges persist. One of the primary hurdles is achieving high signal accuracy and reliability, as brain signals can be noisy and difficult to interpret. BCIs also require sophisticated algorithms to decode the neural signals accurately and translate them into executable commands. User adaptability is another critical issue, as the system must be intuitive and responsive to individual users' unique neural patterns. Developing new user training protocols for brain–computer interfaces is crucial to enhancing their effectiveness and accessibility for a broader range of individuals. Furthermore, there are ethical considerations, particularly concerning privacy and the potential for misuse of neural data. As research and development continue to advance, the future of BCIs holds great promise, potentially revolutionizing how we interact with technology and improving the quality of life for many individuals.

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Message from the Editor-in-Chief

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