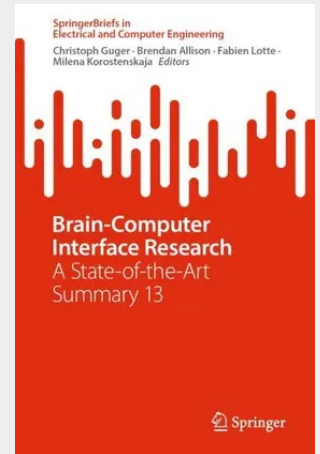


Brain-Computer Interface Research

A State-of-the-Art Summary 13

This thirteenth volume of the BCI State-of-the-Art series presents a comprehensive overview of the most innovative and impactful developments in brain-computer interface (BCI) research, as highlighted by the BCI Award 2024. The volume features detailed descriptions of the top 12 nominated projects, selected by an international jury of experts from hundreds of submissions, and provides in-depth coverage of the top 3 winning entries. These projects span a wide range of applications, including neurorehabilitation, communication, cognitive assessment, neuromodulation, and artificial intelligence integration, and demonstrate how cutting-edge BCI technologies are being translated into clinical, educational, and real-world environments. Each chapter is written by the project's authors and includes technical insights, experimental results, and future perspectives. Together, these contributions provide a unique snapshot of the current state and future direction of BCI research and development. This book serves as an essential resource for researchers, clinicians, engineers, and students in the fields of neuroscience, neuroengineering, biomedical technology, and human-computer interaction, as well as for professionals seeking to understand the evolving landscape of brain-computer interfaces.

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