

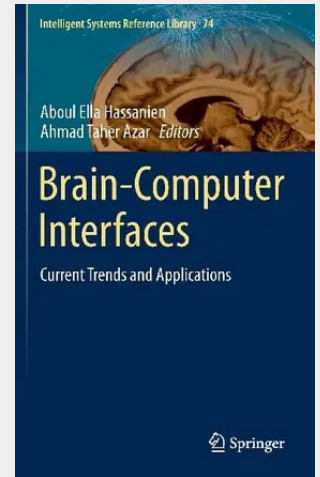
Brain-Computer Interfaces

Current Trends and Applications

The success of a BCI system depends as much on the system itself as on the user's ability to produce distinctive EEG activity. BCI systems can be divided into two groups according to the placement of the electrodes used to detect and measure neurons firing in the brain. These groups are: invasive systems, electrodes are inserted directly into the cortex are used for single cell or multi unit recording, and electrocorticography (EcoG), electrodes are placed on the surface of the cortex (or dura); noninvasive systems, they are placed on the scalp and use electroencephalography (EEG) or magnetoencephalography (MEG) to detect neuron activity.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319109770

Medium: Buch

ISBN: 978-3-319-10977-0

Verlag: Palgrave Macmillan

Erscheinungstermin: 14.11.2014

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2014

Serie: Intelligent Systems Reference Library

Produktform: Gebunden

Gewicht: 7686 g

Seiten: 416

Format (B x H): 160 x 241 mm

