

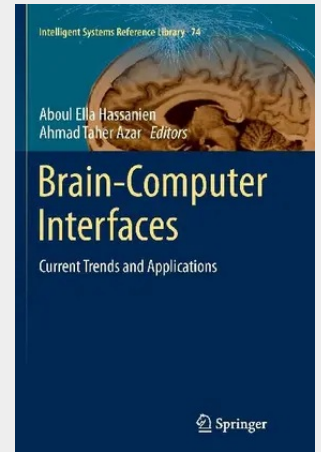
Brain-Computer Interfaces

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: 9783319379975
Medium: Buch
ISBN: 978-3-319-37997-5
Verlag: Springer
Erscheinungstermin: 10.09.2016
Sprache(n): Englisch
Auflage: Softcover Nachdruck of the original 1. Auflage 2015
Serie: Intelligent Systems Reference Library
Produktform: Kartoniert
Gewicht: 6496 g
Seiten: 416
Format (B x H): 155 x 235 mm

