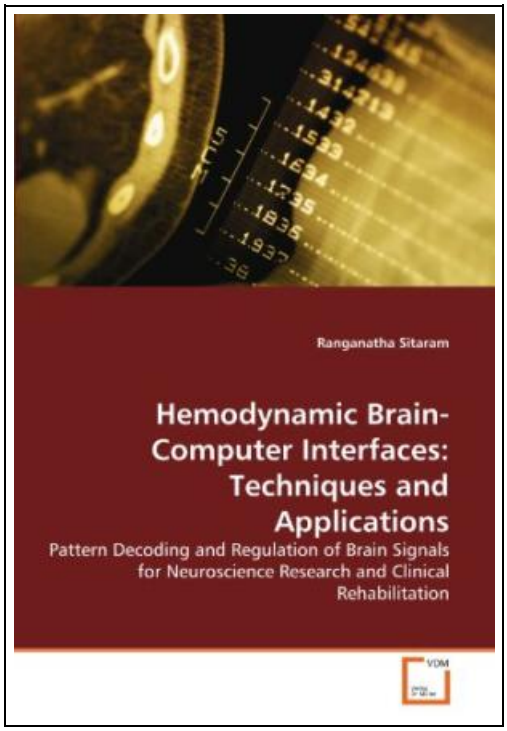
Hemodynamic Brain-Computer Interfaces: Techniques and Applications



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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Pattern Decoding and Regulation of Brain Signals for Neuroscience Research and Clinical Rehabilitation | Brain-Computer Interfaces (BCI) utilise brain signals to activate or deactivate electromechanical devices and computers. Functional Near Infrared Spectroscopy (NIRS) and functional Magnetic Resonance Imaging (fMRI) are non-invasive methods for acquiring hemodynamic signals from the brain with the primary benefit of anatomical specificity of signals. Both NIRS and fMRI rely on the measurement of the blood oxygen level-dependent (BOLD) response of the brain. This book elucidates the technical approaches and algorithms used in implementing hemodynamic BCIs. The book demonstrates how brain states could be decoded from spatiotemporal patterns of brain signals to train individuals to volitionally regulate brain activity. It explains fundamental principles, emerging approaches, applications, and future directions for NIRS- and fMRI-based BCIs. Results of a number of experimental investigations illustrate how hemodynamic BCIs could not only be used for communication in paralysis, but also as powerful tools for experiments in neuroscience and rehabilitation and treatment of neurological disorders. | Format: Paperback | Language/Sprache: english | 208 gr | 220x150x7 mm | 144 pp.

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