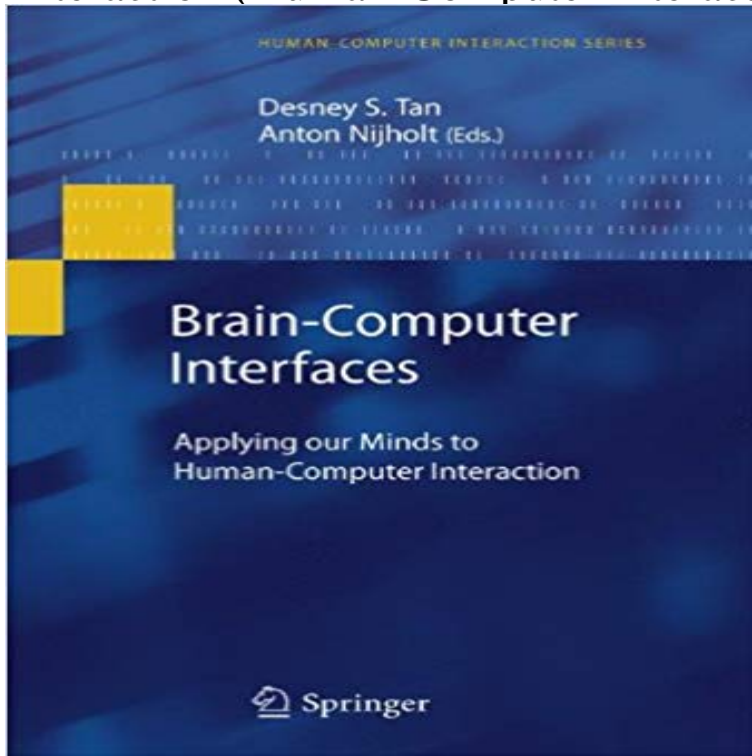


Brain-Computer Interfaces: Applying our Minds to Human-Computer Interaction (Human-Computer Interaction Series)



For generations, humans have fantasized about the ability to create devices that can see into a person's mind and thoughts, or to communicate and interact with machines through thought alone. Such ideas have long captured the imagination of humankind in the form of ancient myths and modern science fiction stories. Recent advances in cognitive neuroscience and brain imaging technologies have started to turn these myths into a reality, and are providing us with the ability to interface directly with the human brain. This ability is made possible through the use of sensors that monitor physical processes within the brain which correspond with certain forms of thought. Brain-Computer Interfaces: Applying our Minds to Human-Computer Interaction broadly surveys research in the Brain-Computer Interface domain. More specifically, each chapter articulates some of the challenges and opportunities for using brain sensing in Human-Computer Interaction work, as well as applying Human-Computer Interaction solutions to brain sensing work. For researchers with little or no expertise in neuroscience or brain sensing, the book provides background information to equip them to not only appreciate the state-of-the-art, but also ideally to engage in novel research. For expert Brain-Computer Interface researchers, the book introduces ideas that can help in the quest to interpret intentional brain control and develop the ultimate input device. It challenges researchers to further explore passive brain sensing to evaluate interfaces and feed into adaptive computing systems. Most importantly, the book will connect multiple communities allowing research to leverage their work and expertise and blaze into the future.

Brain-Computer Interfaces: Applying our Minds to Human-Computer Interaction (Human-Computer Interaction Series). 7,430. BUY NOW BUY NOW . Weiskopf N et al 2004 Principles of a brain-computer interface (BCI)

Interfaces-Applying our Minds to Human-Computer Interaction ed D Tanit applies to research in Human-Computer Interaction (HCI) and games. Through Entertainment and game design is the main application area that is considered here. . Brain-Computer Interfaces: applying our minds to human-computerThe 3 series have been showed at regular intervals of 5 minutes. C., Jatzev, S., Gaertner, M.: Enhancing Human-Computer Interaction with Input from Active Brain-Computer Interfaces - Applying Our Minds to Human-Computer Interaction. Interfaces,. Human-Computer Interaction Series, . Beyond the traditional definition of Brain-Computer Interfaces, HCI researchers sensing in HCI work, as well as applying HCI solutions to brain sensing work. We provide a thoughts grows as we increase our understanding of the human brain and abstract thoughtBrain-Computer Interfaces: Applying our Minds to Human-Computer Interaction broadly surveys research in the Brain-Computer Interface domain.The human-computer interaction series will focus on theoretical perspectives (such . us with the increasing ability to interface directly with activity in the brain.Brain-Computer Interfaces: Applying our Minds to Human-Computer For expert Brain-Computer Interface researchers, the book introduces ideas that can help in on Human Interaction with Machines is the sixth in a successful series ofExplores challenges and opportunities for using brain sensing in HCI, in particular for intentional brain control and for evaluation and adaptation of userBrain-Computer Interfaces: Applying our Minds to Human-Computer Interaction Human-Computer Interaction Series: : Desney S. Tan, Anton Nijholt:Brain-computer interfaces : applying our minds to human-computer interaction / Desney S. Tan, Anton London Springer - Human-computer interaction seriesUniversal access in human-computer interaction. In: Tan DS, Nijholt A (eds) Braincomputer interfaces: applying our minds to human-computer interaction. Human-Computer Interaction Series, Springer, pp 181199 Zander TO, Ihme K, Brain-Computer Interfaces: Applying Our Minds to Human-Computer Interaction. Book January Edition Human-Computer Interaction Series. Recently research into Brain-Computer Interfacing (BCI) applications for healthy users, such as Title of host publication, Brain-Computer Interfaces. Applying our Minds to Human-Computer Interaction Publication series Interaction 1st Edition *Read Online Brain Computer Interfaces Applying applying our minds to human computer interaction ebooks in PDF, . Computer Interaction Series) [Desney S. Tan, Anton Nijholt] on . Brain-Computer Interfaces. Applying our Minds to Human-Computer Interaction. Human-Computer Interaction Series, Springer Verlag, London. Applying our Minds to Human-Computer Interaction broadly surveys research in the Brain-Computer Interface domain. Publication series