



Springer

1st
edition

2010, XXIII, 260 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-84996-091-5

£ 74,99 | CHF 100,50 | 84,99 € |

93,49 € (A) | 90,94 € (D)

Available

Discount group

Standard (0)

Product category

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Computer Science : User Interfaces and Human Computer Interaction

Schalk, Gerwin, Mellinger, Jürgen

A Practical Guide to Brain-Computer Interfacing with BCI2000

General-Purpose Software for Brain-Computer Interface Research, Data Acquisition, Stimulus Presentation, and Brain Monitoring

- Only very few books have been published on Brain-Computer Interfacing, they are of mostly academic nature whereas this book is introductory, and contains tutorials and BCI2000 software

What Is BCI2000? BCI2000 is a general-purpose software platform for brain-computer interface (BCI) research. It can also be used for a wide variety of data acquisition, stimulus presentation, and brain monitoring applications. BCI2000 has been in development since 2000 in a project led by the Brain-Computer Interface R&D Program at the Wadsworth Center of the New York State Department of Health in Albany, New York, USA, with substantial contributions by the Institute of Medical Psychology and Behavioral Neurobiology at the University of Tübingen, Germany. In addition, many laboratories around the world, most notably the BrainLab at Georgia State University in Atlanta, Georgia, and Fondazione Santa Lucia in Rome, Italy, have also played an important role in the project's development. Mission The mission of the BCI2000 project is to facilitate research and the development of applications in all areas that depend on real-time acquisition, processing, and feedback of biosignals. Vision Our vision is that BCI2000 will become a widely used software tool for diverse areas of research and development.

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