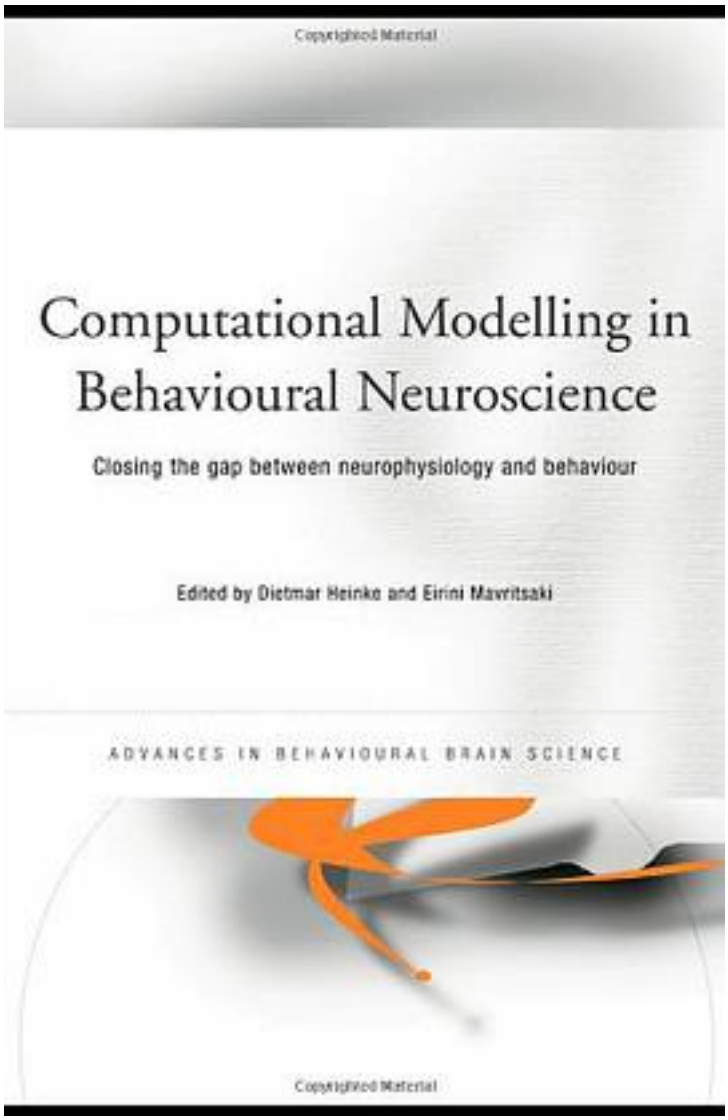
Computational Modelling in Behavioural Neuroscience



Computational Modelling in Behavioural Neuroscience_下载链接1_

著者:Heinke, Dietmar (EDT)/ Mavritsaki, Eirini (EDT)

出版者:

出版时间:

装帧:

isbn:9781841697383

Classically, behavioural neuroscience theorizes about experimental evidence in a qualitative way. However, more recently there has been an increasing development of mathematical and computational models of experimental results, and in general these models are more clearly defined and more detailed than their qualitative counter parts. These new computational models can be set up so that they are consistent with both single neuron and whole-system levels of operation, allowing physiological results to be meshed with behavioural data - thus closing the gap between neurophysiology and human behaviour. There is considerable diversity between models with respect to the methodology of designing a model, the degree to which neurophysiological processes are taken into account and the way data (behavioural, electrophysiological, etc) constrains a model. This book presents examples of this diversity and in doing so represents the state-of-art in the field through a unique collection of papers from the world's leading researchers in the area of computational modelling in behavioural neuroscience.Based on talks given at the third Behavioural Brain Sciences Symposium, held at the Behavioural Brain Sciences Centre, University of Birmingham, in May 2007, the book appeals to a broad audience, from postgraduate students beginning to work in the field to experienced experimenters interested in an overview.

作者介绍:

目录:

Computational Modelling in Behavioural Neuroscience_下载链接1_

标签

计算机科学

2013

评论

Computational Modelling in Behavioural Neuroscience_下载链接1_

书评

Computational Modelling in Behavioural Neuroscience_下载链接1_