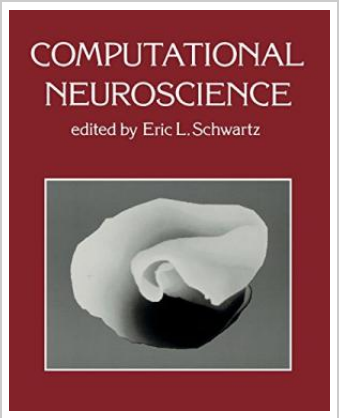

Computational Neuroscience

By -

MIT Press Ltd, United States, 1993. Paperback. Book Condition: New. New edition. 248 x 215 mm. Language: English . Brand New Book ***** Print on Demand *****.The thirty original contributions in this book provide a working definition of computational neuroscience as the area in which problems lie simultaneously within computer science and neuroscience. They review this emerging field in historical and philosophical overviews and in stimulating summaries of recent results. Leading researchers address the structure of the brain and the computational problems associated with describing and understanding this structure at the synaptic, neural, map, and system levels.The overview chapters discuss the early days of the field, provide a philosophical analysis of the problems associated with confusion between brain metaphor and brain theory, and take up the scope and structure of computational neuroscience.Synaptic-level structure is addressed in chapters that relate the properties of dendritic branches, spines, and synapses to the biophysics of computation and provide a connection between real neuron architectures and neural network simulations.The network-level chapters take up the preattentive perception of 3-D forms, oscillation in neural networks, the neurobiological significance of new learning models, and the analysis of neural assemblies and local learning rides. Map-level structure is explored in...

Reviews

Undoubtedly, this is the best function by any writer. This really is for those who statte there was not a really worth reading. Its been written in an exceptionally basic way which is merely right after i finished reading through this book by which really transformed me, change the way i really believe.

-- ***Dr. Deonte Hammes DDS***

A whole new e book with an all new point of view. It is one of the most incredible book i actually have go through. I am easily could possibly get a enjoyment of reading through a written book.

-- ***Nathanael Treutel***