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Synergetic Computers and Cognition

A Top-Down Approach
to Neural Nets

Second Enlarged Edition



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H. Haken



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Techniques and Applications points out these challenges and provides valuable suggestions toward the necessary solutions by focusing on multimedia database techniques

Brain Dynamics H. Haken, 2002 This book addresses a large variety of models in mathematical and computational neuroscience It is written for the experts as well as for graduate students wishing to enter this fascinating field of research The author studies the behaviour of large neural networks composed of many neurons coupled by spike trains He devotes the main part to the synchronization problem He presents neural net models more realistic than the conventional ones by taking into account the detailed dynamics of axons synapses and dendrites allowing rather arbitrary couplings between neurons He gives a complete stable analysis that goes significantly beyond what has been known so far He also derives pulse averaged equations including those of the Wilson Cowan and the Jirsa Haken Nunez types and discusses the formation of spatio temporal neuronal activity patterns An analysis of phase locking via sinusoidal couplings leading to various kinds of movement coordination is included

Brain Function and Oscillations Erol Başar, 2012-12-06 Neuroscience is ripe for a paradigm change as Freeman and Mountcastle describe Brain Oscillations provide an important key to this change In this book the functional importance of the brain's multiple oscillations is treated with an integrative scope According to the author neurophysiology and cognition demand integrative approaches similar to those of Galilei and Newton in physics and of Darwin in biology Not only the human brain but also lower brains and ganglia of invertebrates are treated with electrophysical methods Experiments on sensory registration perception movement and cognitive processes related to attention learning and memory are described A synopsis on brain functions leads to a new neuron assemblies doctrine extending the concept of Sherrington and new trends in this field The book will appeal to scientists and graduate students

On Self-Organization R.K. Mishra, D. Maaß, E. Zwierlein, 2013-12-18 The concept of self organization is at the heart of the theory of complex systems It describes how order can emerge from disorder in otherwise chaotic nonlinear dynamical systems This book investigates and surveys the role of self organization in a wide variety of disciplines The contributions are written by world renowned scientists and philosophers at a level that is accessible to nonspecialists

From Natural to Artificial Neural Computation Jose Mira, Francisco Sandoval, 1995-05-24 This volume presents the proceedings of the International Workshop on Artificial Neural Networks IWANN 95 held in Torremolinos near Malaga Spain in June 1995 The book contains 143 revised papers selected from a wealth of submissions and five invited contributions it covers all current aspects of neural computation and presents the state of the art of ANN research and applications The papers are organized in sections on neuroscience computational models of neurons and neural nets organization principles learning cognitive science and AI neurosimulators implementation neural networks for perception and neural networks for communication and control

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