

## THE RELEVANCE OF THE TIME DOMAIN TO NEURAL NETWORK MODELS%0A

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The book concentrates on a crucial aspect of brain modeling: the nature and functional relevance of temporal interactions in neural systems; Develops a unified view of how the time domain can be effectively employed in neural network models

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### **The Relevance of the Time Domain to Neural Network Models**

Though the time domain is integral an integral aspect of the functioning of biological systems, it has proven very challenging to incorporate the time domain effectively in neural network models. A promising path that is being explored is to study the importance of synchronization in biological systems. Synchronization plays a critical role in the interactions between neurons in the brain, giving rise to perceptual phenomena, and explaining multiple effects such as visual contour integration

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In these models, time is paced by the presentation of stimuli, the network responding to each input pattern by convergence to a stationary state. This volume concentrates on a different brand of neural network models, in which

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The Relevance of the Time Domain to Neural Network Models aims to develop a unified view of how the time domain can be effectively employed in neural network models. The book proposes that conceptual models of neural interaction are required in order to understand the data being collected. Simultaneously, these proposed models can be used to form hypotheses of neural interaction and system

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A significant amount of effort in neural modeling is directed towards understanding the representation of information in various parts of the brain, such as cortical maps [6], and the paths along which sensory information is processed. Though the time domain is integral an integral aspect of the

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### **The Relevance of the Time Domain to Neural Network Models**

The Relevance of the Time Domain to Neural Network Models by Guillermo A. Cecchi, 9781461407232, available at Book Depository with free delivery worldwide.

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### **A Ravishankar Rao Author of The Relevance of the Time**

A. Ravishankar Rao is the author of The Relevance of the Time Domain to Neural Network Models (3.00 avg rating, 1 rating, 0 reviews, published 2011), A T

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