

CORTICONICS



Neural Circuits of the
Cerebral Cortex

M. Abeles

Corticonics Neural Circuits Of The Cerebral Cortex

Robert Miller



Corticonics Neural Circuits Of The Cerebral Cortex:

Corticonics M. Abeles, 1991-02-22 Understanding how the brain works is probably the greatest scientific and intellectual challenge of our generation. The cerebral cortex is the instrument by which we carry the most complex mental functions. Fortunately, there exists an immense body of knowledge concerning both cortical structure and the properties of single neurons in the cortex. With the advent of the supercomputer, there has been increased interest in neural network modeling. What is needed is a new approach to an understanding of the mammalian cerebral cortex that will provide a link between the physiological description and the computer model. This book meets that need by combining anatomy, physiology, and modeling to achieve a quantitative description of cortical function. The material is presented didactically, starting with descriptive anatomy and comprehensively examining all aspects of modeling. The book gradually leads the reader from the macroscopic cortical anatomy and standard electrophysiological properties of single neurons to neural network models and synfire chains. The most modern trends in neural network modeling are explored.

Cortex: Statistics and Geometry of Neuronal Connectivity Valentino Braitenberg, Almut Schüz, 2013-03-14 By means of quantitative analysis of the tissue components in the cortex of the mouse, this book presents an overall picture of the cortical network, which is then related to various theories on cortical function. Centering around the idea of a diffuse network in a fairly homogeneous population of excitatory neurons, that of the pyramidal cells, it shows that the whole organization in the cortical skeleton of pyramidal cells corresponds well with the idea of an associative memory and with the theory of cell assemblies. Provides the reader with information on quantitative neuroanatomy and also on the methods used in particular, those that vary from the norm.

Neuroelectrodynamics Dorian Aur, Mandar S. Jog, 2010 The essence of brain function consists in how information is processed, transferred, and stored. Current neurophysiological doctrine remains focused within a spike timing paradigm, but this has a limited capacity for advancing the understanding of how the brain works. This book puts forward a new model, the neuroelectrodynamic model (NED), which describes the intrinsic computational processes by the dynamics and interaction of charges. It uses established laws of physics, such as those of classical mechanics, thermodynamics, and quantum physics, as the guiding principle to develop a general theoretical construct of the brain's computational model, which incorporates the neurobiology of the cells and the molecular machinery itself, along with the electrical activity in neurons, to explain experimental results and predict the organization of the system. After addressing the deficiencies of current approaches, the laws and principles required to build a new model are discussed. In addition, as well as describing experiments which provide the required link between computation and semantics, the book highlights important concepts relating the theory of information with computation and the electrical properties of neurons. The NED model is explained and expounded, and several examples of its application are shown. Of interest to all those involved in the fields of neuroscience, neurophysiology, computer science, and the development of artificial intelligence, NED is a step forward in understanding the mind.

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Cognitive Phase Transitions in the Cerebral Cortex - Enhancing the Neuron Doctrine by Modeling Neural Fields Robert Kozma, Walter J. Freeman, 2015-10-30 This intriguing book was born out of the many discussions the authors had in the past 10 years about the role of scale free structure and dynamics in producing intelligent behavior in brains The microscopic dynamics of neural networks is well described by the prevailing paradigm based in a narrow interpretation of the neuron doctrine This book broadens the doctrine by incorporating the dynamics of neural fields as first revealed by modeling with differential equations K sets The book broadens that approach by application of random graph theory neuropercolation The book concludes with diverse commentaries that exemplify the wide range of mathematical conceptual approaches to neural fields This book is intended for researchers postdocs and graduate students who see the limitations of network theory and seek a beachhead from which to embark on mesoscopic and macroscopic neurodynamics

Time and the Brain Robert Miller, 2003-09-02 Since the days of Galileo time has been a fundamental variable in scientific attempts to understand the natural world Once the first recordings of electrical activity in the brain had been made it became clear that electrical signals from the brain consist of very complex temporal patterns This can now be demonstrated by recordings at the single unit level and by electroencephalography EEG Time and the Brain explores modern approaches to these temporal aspects of electrical brain activity The temporal structure as revealed from trains of impulses from single nerve cells and from EEG recordings are discussed in depth together with an exploration of correlations with behaviour and psychology The single cell and EEG approaches often tend to be segregated as the research occurs in laboratories in different parts of the world By bringing together modern information acquired using both methods it is hoped that they can become better integrated as complimentary windows on the information processing achieved by the brain

Brain Computations and Connectivity Edmund T. Rolls, 2023 Brain Computations and Connectivity is about how the brain works and elucidates what is computed in different brain systems and describes current biologically plausible computational approaches and models of how each of these brain systems computes

Neurodynamics: An Exploration in Mesoscopic Brain Dynamics Walter Freeman, 2012-12-06 Cortical evoked potentials are of interest primarily as tests of changing neuronal excitabilities accompanying normal brain function The first three steps in the analysis of these complex waveforms are proper placement of electrodes for recording the proper choice of electrical or sensory stimulus parameters and the establishment of behavioral control The fourth is development of techniques for reliable measurement Measurement consists of comparison of an unknown entity with a set of standard scales or dimensions having numerical attributes in

preassigned degree A physical object can be described by the dimensions of size mass density etc In addition there are dimensions such as location velocity weight hardness etc Some of these dimensions can be complex e g size depends on three or more subsidiary coordinates and some can be interdependent or nonorthogonal e g specification of size and mass may determine density In each dimension the unit is defined with reference to a standard physical entity e g a unit of mass or length and the result of measurement is expressed as an equivalence between the unknown and the sum of a specified number of units of that entity The dimensions of a complex waveform are elementary waveforms from which that waveform can be built by simple addition Any finite single valued function of time is admissible They are called basis functions IO 15 and they can be expressed in numeric as well as geometric form

Axons and Brain Architecture Kathleen

Rockland, 2015-11-21 Several excellent monographs exist which deal with axons These however focus either on the cellular and molecular biology of axons proper or on network organization of connections the latter with only an incidental or abstract reference to axons per se Still relatively neglected however is the middle ground of terminations and trajectories of single axons in the mammalian central nervous system This middle level of connectivity between networks on the one hand and local in vitro investigations on the other is to some extent represented by retrograde tracer studies and labeled neurons but there have so far been many fewer of the complementary anterograde studies with total visualization of the axonal arborization The present volume brings together in one source an interrelated treatment of single axons from the perspective of microcircuitry and as substrates of larger scale organization tractography Especially for the former area axons in microcircuitry an abundance of published data exists but these are typically in specialty journals that are not often accessed by the broader community By highlighting and unifying the span from microcircuitry to tractography the proposed volume serves as a convenient reference source and in addition inspires further interactions between what currently tend to be separate communities The volume also redresses the imbalance between in vitro local connectivity and long distance connections Focusing on mammalian systems Part 1 of this book is devoted to anatomical investigations of connections at the single axon level drawing on modern techniques and classical methods from the 1990s A particular emphasis is on broad coverage of cortical and subcortical connections from different species so that common patterns of divergence convergence and collateralization can be easily appreciated Part 2 addresses mechanisms of axon guidance as these seem particularly relevant to pathways and branching patterns Part 3 covers axon dynamics and functional aspects and Part 4 focuses on tractography notably including comparisons between histological substrates and imaging A novel innovative reference on the axon as a connectional unit encompassing microcircuitry axon guidance and function Featuring chapters from leading researchers in the field Full colour text that includes both an overview of axon function and the multiple underlying molecular mechanisms The only volume to bring together the configuration of individual axons at a circuit level and to relate the histological geometry of axons and axon bundles to in vivo tractography imaging studies

Artificial Neural Networks

- **ICANN 2007** Joaquim Marques de Sá, Luis A. Alexandre, Wlodzislaw Duch, Danilo Mandic, 2007-09-14 This book is the first of a two volume set that constitutes the refereed proceedings of the 17th International Conference on Artificial Neural Networks ICANN 2007 held in Porto Portugal September 2007 Coverage includes advances in neural network learning methods advances in neural network architectures neural dynamics and complex systems data analysis evolutionary computing agents learning as well as temporal synchronization and nonlinear dynamics in neural networks **23 Problems in Systems Neuroscience** J. Leo van Hemmen, Terrence J. Sejnowski, 2005-12-08 The complexity of the brain and the protean nature of behavior remain the most elusive area of science but also the most important van Hemmen and Sejnowski invited 23 experts from the many areas from evolution to qualia of systems neuroscience to formulate one problem each Although each chapter was written independently and can be read separately together they provide a useful roadmap to the field of systems neuroscience and will serve as a source of inspirations for future explorers of the brain

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