

CORTICONICS



Neural Circuits of the
Cerebral Cortex

M. Abeles

Corticonics Neural Circuits Of The Cerebral Cortex

**Patricia S. Churchland, Terrence J.
Sejnowski**



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.

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. 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

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

The Brain's Representational Power Cyriel M.A. Pennartz, 2015-09-18 A neuroscientifically informed theory arguing that the core of qualitative conscious experience arises from the integration of sensory and cognitive modalities Although science has made considerable progress in discovering the neural basis of cognitive processes how consciousness arises remains elusive In this book Cyriel Pennartz analyzes which aspects of conscious experience can be peeled away to access its core the hardest aspect the relationship between brain processes and the subjective qualitative nature of consciousness Pennartz traces the problem back to its historical roots in the foundations of neuroscience and connects early ideas on sensory processing to contemporary computational neuroscience What can we learn from neural network models and where do they fall short in bridging the gap between neural processes and conscious experience Do neural models of cognition resemble inanimate systems and how can this help us define requirements for conscious processing in the brain These questions underlie Pennartz's examination of the brain's anatomy and neurophysiology The perspective of his account is not limited to visual perception but broadened to include other sensory modalities and their integration Formulating a representational theory of the neural basis of consciousness Pennartz outlines properties that complex structures must express to process information consciously This theoretical framework is constructed using empirical findings from neuropsychology and neuroscience as well as such theoretical arguments as the Cuneiform Room and the Wall Street Banker Positing that qualitative experience is a multimodal and multilevel phenomenon at its very roots Pennartz places this body of theory in the wider context of mind brain philosophy examining implications for our thinking about animal and robot consciousness

Temporal Coding in the Brain G. Buzsaki, R. Llinas, W. Singer, A. Berthoz, Y. Christen, 2012-12-06 Temporal coding in the brain documents a revolution now occurring in the neurosciences How does parallel processing of information bind together the complex nature of the outer and our inner worlds Do intrinsic oscillations and transient cooperative states of neurons represent the physiological basis of cognitive and motor functions of the brain Some answers to these challenging issues are provided in this book by leading world experts of brain function A common denominator of the works presented in this volume is the nature and mechanisms of neuronal cooperation in the temporal domain The topics range from simple organisms to the human brain The volume is intended for investigators and graduate students in neurophysiology cognitive neuroscience neural computation and neurology

Principles of Neural Coding Rodrigo Quian Quiroga, Stefano Panzeri, 2013-05-06 Understanding how populations of neurons encode information is the challenge faced by researchers in the field of neural coding Focusing on the many mysteries and marvels of the mind has prompted a prominent team of experts in the field to put their heads together and fire up a book on the subject Simply titled Principles of Neural Coding this book covers the complexities of this discipline It centers on some of the major developments in this area and presents a complete assessment of how neurons in the brain encode information The book collaborators contribute various chapters that describe results in different systems visual auditory somatosensory perception

etc and different species monkeys rats humans etc Concentrating on the recording and analysis of the firing of single and multiple neurons and the analysis and recording of other integrative measures of network activity and network states such as local field potentials or current source densities is the basis of the introductory chapters Provides a comprehensive and interdisciplinary approach Describes topics of interest to a wide range of researchers The book then moves forward with the description of the principles of neural coding for different functions and in different species and concludes with theoretical and modeling works describing how information processing functions are implemented The text not only contains the most important experimental findings but gives an overview of the main methodological aspects for studying neural coding In addition the book describes alternative approaches based on simulations with neural networks and in silico modeling in this highly interdisciplinary topic It can serve as an important reference to students and professionals

Chaos In Brain? - Proceedings Of The Workshop Peter Grassberger, Klaus Lehnertz, Christian E Elger, J Arnhold, 2000-01-25 There has been a heated debate about whether chaos theory can be applied to the dynamics of the human brain While it is obvious that nonlinear mechanisms are crucial in neural systems there has been strong criticism of attempts to identify strange attractors in brain signals and to measure their fractal dimensions Lyapunov exponents etc Conventional methods analyzing brain dynamics are largely based on linear models and on Fourier spectra Regardless of the existence of strange attractors in brain activity the neurosciences should benefit greatly from alternative methods that have been developed in recent years for the analysis of nonlinear and chaotic behavior

The Computational Brain Patricia Smith Churchland, Terrence Joseph Sejnowski, 1992 The Computational Brain addresses a broad audience neuroscientists computer scientists cognitive scientists and philosophers It is written for both the expert and novice A basic overview of neuroscience and computational theory is provided followed by a study of some of the most recent and sophisticated modeling work in the context of relevant neurobiological research Technical terms are clearly explained in the text and definitions are provided in an extensive glossary The appendix contains a pr cis of neurobiological techniques Jacket

Modeling Neural Development Arjen Van Ooyen, 2003 An important collection showing how computational and mathematical modeling can be used to study the complexities of neural development

Metastable Dynamics of Neural Ensembles Emili Balaguer-Ballester, Ruben Moreno-Bote, Gustavo Deco, Daniel Durstewitz, 2018-03-19 A classical view of neural computation is that it can be characterized in terms of convergence to attractor states or sequential transitions among states in a noisy background After over three decades is this still a valid model of how brain dynamics implements cognition This book provides a comprehensive collection of recent theoretical and experimental contributions addressing the question of stable versus transient neural population dynamics from complementary angles These studies showcase recent efforts for designing a framework that encompasses the multiple facets of metastability in neural responses one of the most exciting topics currently in systems and computational neuroscience

Recruitment Learning Joachim Diederich, Cengiz Gunay, James M.

Hogan,2010-10-14 This book presents a fascinating and self contained account of recruitment learning a model and theory of fast learning in the neocortex In contrast to the more common attractor network paradigm for long and short term memory recruitment learning focuses on one shot learning or chunking of arbitrary feature conjunctions that co occur in single presentations The book starts with a comprehensive review of the historic background of recruitment learning putting special emphasis on the ground breaking work of D O Hebb W A Wickelgren J A Feldman L G Valiant and L Shastri Afterwards a thorough mathematical analysis of the model is presented which shows that recruitment is indeed a plausible mechanism of memory formation in the neocortex A third part extends the main concepts towards state of the art spiking neuron models and dynamic synchronization as a tentative solution of the binding problem The book further discusses the possible role of adult neurogenesis for recruitment These recent developments put the theory of recruitment learning at the forefront of research on biologically inspired memory models and make the book an important and timely contribution to the field

The Computational Brain, 25th Anniversary Edition Patricia S. Churchland, Terrence J. Sejnowski, 2016-11-04 An anniversary edition of the classic work that influenced a generation of neuroscientists and cognitive neuroscientists Before *The Computational Brain* was published in 1992 conceptual frameworks for brain function were based on the behavior of single neurons applied globally In *The Computational Brain* Patricia Churchland and Terrence Sejnowski developed a different conceptual framework based on large populations of neurons They did this by showing that patterns of activities among the units in trained artificial neural network models had properties that resembled those recorded from populations of neurons recorded one at a time It is one of the first books to bring together computational concepts and behavioral data within a neurobiological framework Aimed at a broad audience of neuroscientists computer scientists cognitive scientists and philosophers *The Computational Brain* is written for both expert and novice This anniversary edition offers a new preface by the authors that puts the book in the context of current research This approach influenced a generation of researchers Even today when neuroscientists can routinely record from hundreds of neurons using optics rather than electricity and the 2013 White House BRAIN initiative heralded a new era in innovative neurotechnologies the main message of *The Computational Brain* is still relevant

Movement Control Paul Cordo, Stevan Harnad, 1994-05-27 Movement is arguably the most fundamental and important function of the nervous system Purposeful movement requires the coordination of actions within many areas of the cerebral cortex cerebellum basal ganglia spinal cord and peripheral nerves and sensory receptors which together must control a highly complex biomechanical apparatus made up of the skeleton and muscles Beginning at the level of biomechanics and spinal reflexes and proceeding upward to brain structures in the cerebellum brainstem and cerebral cortex the chapters in this book highlight the important issues in movement control Commentaries provide a balanced treatment of the articles that have been written by experts in a variety of areas concerned with movement including behaviour physiology robotics and mathematics

Neural Modeling and Neural Networks F. Ventriglia, 2013-10-22

Research in neural modeling and neural networks has escalated dramatically in the last decade acquiring along the way terms and concepts such as learning memory perception recognition which are the basis of neuropsychology Nevertheless for many neural modeling remains controversial in its purported ability to describe brain activity The difficulties in modeling are various but arise principally in identifying those elements that are fundamental for the expression and description of superior neural activity This is complicated by our incomplete knowledge of neural structures and functions at the cellular and population levels The first step towards enhanced appreciation of the value of neural modeling and neural networks is to be aware of what has been achieved in this multidisciplinary field of research This book sets out to create such awareness Leading experts develop in twelve chapters the key topics of neural structures and functions dynamics of single neurons oscillations in groups of neurons randomness and chaos in neural activity statistical dynamics of neural networks learning memory and pattern recognition

Methods and Models in Neurophysics Carson Chow, 2005

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