



Fast Oscillations In Cortical Circuits

Annelies Wilder-Smith



Fast Oscillations In Cortical Circuits:

Fast Oscillations in Cortical Circuits Roger D. Traub, 2016 Fast Oscillations in Cortical Circuits Roger D. Traub, John G. R. Jefferys, Miles A. Whittington, 1999 In *Fast Oscillations in Cortical Circuits* the authors use a combination of electrophysiological and computer modeling techniques to analyze how large networks of neurons can produce both epileptic seizures and functionally relevant synchronized oscillations *Recent Advances in Epilepsy Research* Devin K. Binder, Helen E. Scharfman, 2013-03-14 Epilepsy research has entered an exciting phase as advances in molecular analysis have supplemented in vitro and in vivo electrophysiologic and phenotypic characterization *Recent Advances in Epilepsy Research* sets forth a series of chapter reviews by researchers involved in these advances This volume is a composite profile of some exciting recent investigations in select areas of enquiry Key features neurogenetics of seizure disorders new developments in cellular and molecular neurobiology of seizure disorders the role of growth factors in seizures new advances in the roles of metabotropic glutamate receptors and GABA receptors and transporters gap junctions neuroimmunology of epilepsy malformations of cortical development neurogenesis new animal models of epilepsy and the use of brain stimulation to treat epilepsy This book should be of interest to a wide variety of audiences including graduate students in neurobiology and related disciplines neuroscientists medical students neurologists neurosurgeons and industry including pharmaceutical companies and medical device companies There are many ideas in this book that will lead ingenious innovators in academia and industry to develop new and better therapies *Cortical Areas* Almut Schuez, Robert Miller, 2002-05-30 The study of areas in the cerebral cortex has a long history bringing empirical data into close relation with fundamental conceptual issues about the cortex The subject is currently being revitalized with the advent of new experimental methods and this book brings a modern perspective to the study of these areas *Cortical Areas Unity and Diversity* *Neurobiology of the Epilepsies* Jerome Engel, Jr., Istvan Mody, 2022-08-30 *Neurobiology of the Epilepsies From Epilepsy A Comprehensive Textbook 3rd Edition* provides a concise up to date review of basic sciences and the latest research advances in epilepsy Ideal for general neurologists and neurosurgeons epilepsy clinical neurophysiology specialists basic scientists clinical researchers and other health care providers with an interest in epilepsy this new volume by Drs Istvan Mody Hal Blumenfeld Jerome Engel Jr Asla Ptk nen Ivan Soltesz and Annamaria Vezzani offers comprehensive authoritative coverage of this critical and complex area of the field Biological Learning and Control Reza Shadmehr, Sandro Mussa-Ivaldi, 2023-10-31 A novel theoretical framework that describes a possible rationale for the regularity in how we move how we learn and how our brain predicts events In *Biological Learning and Control* Reza Shadmehr and Sandro Mussa Ivaldi present a theoretical framework for understanding the regularity of the brain s perceptions its reactions to sensory stimuli and its control of movements They offer an account of perception as the combination of prediction and observation the brain builds internal models that describe what should happen and then combines this prediction with reports from the sensory system to form a belief Considering the brain s

control of movements and variations despite biomechanical similarities among old and young healthy and unhealthy and humans and other animals Shadmehr and Mussa Ivaldi review evidence suggesting that motor commands reflect an economic decision made by our brain weighing reward and effort This evidence also suggests that the brain prefers to receive a reward sooner than later devaluing or discounting reward with the passage of time then as the value of the expected reward changes in the brain with the passing of time because of development disease or evolution the shape of our movements will also change The internal models formed by the brain provide the brain with an essential survival skill the ability to predict based on past observations The formal concepts presented by Shadmehr and Mussa Ivaldi offer a way to describe how representations are formed what structure they have and how the theoretical concepts can be tested

Principles of Brain Dynamics Mikhail I. Rabinovich, Karl J. Friston, Pablo Varona, 2023-12-05 Experimental and theoretical approaches to global brain dynamics that draw on the latest research in the field The consideration of time or dynamics is fundamental for all aspects of mental activity perception cognition and emotion because the main feature of brain activity is the continuous change of the underlying brain states even in a constant environment The application of nonlinear dynamics to the study of brain activity began to flourish in the 1990s when combined with empirical observations from modern morphological and physiological observations This book offers perspectives on brain dynamics that draw on the latest advances in research in the field It includes contributions from both theoreticians and experimentalists offering an eclectic treatment of fundamental issues Topics addressed range from experimental and computational approaches to transient brain dynamics to the free energy principle as a global brain theory The book concludes with a short but rigorous guide to modern nonlinear dynamics and their application to neural dynamics **Case Studies in Neural Data Analysis** Mark A.

Kramer, Uri T. Eden, 2016-11-04 A practical guide to neural data analysis techniques that presents sample datasets and hands on methods for analyzing the data As neural data becomes increasingly complex neuroscientists now require skills in computer programming statistics and data analysis This book teaches practical neural data analysis techniques by presenting example datasets and developing techniques and tools for analyzing them Each chapter begins with a specific example of neural data which motivates mathematical and statistical analysis methods that are then applied to the data This practical hands on approach is unique among data analysis textbooks and guides and equips the reader with the tools necessary for real world neural data analysis The book begins with an introduction to MATLAB the most common programming platform in neuroscience which is used in the book Readers familiar with MATLAB can skip this chapter and might decide to focus on data type or method type The book goes on to cover neural field data and spike train data spectral analysis generalized linear models coherence and cross frequency coupling Each chapter offers a stand alone case study that can be used separately as part of a targeted investigation The book includes some mathematical discussion but does not focus on mathematical or statistical theory emphasizing the practical instead References are included for readers who want to explore the theoretical

more deeply The data and accompanying MATLAB code are freely available on the authors website The book can be used for upper level undergraduate or graduate courses or as a professional reference A version of this textbook with all of the examples in Python is available on the MIT Press website Visual Cortex and Deep Networks Tomaso A. Poggio, Fabio Anselmi, 2016-09-23 A mathematical framework that describes learning of invariant representations in the ventral stream offering both theoretical development and applications The ventral visual stream is believed to underlie object recognition in primates Over the past fifty years researchers have developed a series of quantitative models that are increasingly faithful to the biological architecture Recently deep learning convolution networks which do not reflect several important features of the ventral stream architecture and physiology have been trained with extremely large datasets resulting in model neurons that mimic object recognition but do not explain the nature of the computations carried out in the ventral stream This book develops a mathematical framework that describes learning of invariant representations of the ventral stream and is particularly relevant to deep convolutional learning networks The authors propose a theory based on the hypothesis that the main computational goal of the ventral stream is to compute neural representations of images that are invariant to transformations commonly encountered in the visual environment and are learned from unsupervised experience They describe a general theoretical framework of a computational theory of invariance with details and proofs offered in appendixes and then review the application of the theory to the feedforward path of the ventral stream in the primate visual cortex **Neural Engineering** Chris Eliasmith, Charles H. Anderson, 2003 A synthesis of current approaches to adapting engineering tools to the study of neurobiological systems Magnetic Source Imaging of the Human Brain Zhong-Lin Lu, Lloyd Kaufman, 2003-10-17 This book is designed to acquaint serious students scientists and clinicians with magnetic source imaging MSI a brain imaging technique of proven importance that promises even more important advances The technique permits spatial resolution of neural events on a scale measured in millimeters and temporal resolution measured in milliseconds Although widely mentioned in literature dealing with cognitive neuroscience and functional brain imaging there is no single book describing both the foundations and actual methods of magnetoencephalography and its underlying science neuromagnetism This volume fills a long standing need as it is accessible to scientists and students having no special background in the field and makes it possible for them to understand this literature and undertake their own research A self contained unit this book covers MSI from beginning to end including its relationship to allied technologies such as electroencephalography and modern functional imaging modalities In addition the book introduces the field to the non specialist providing a framework for the rest of the book provides a thorough review of the physiological basis of MSI describes the mathematical bases of MSI the forward and inverse problems outlines new signal processing methods that extract information from single trial MEG depicts the early as well as the most recent versions of MSI technology compares MSI with other imaging methodologies describes new paradigms and analysis techniques in applying MSI to study human

perception and cognition which are also applicable to EEG and reviews some of the most important results in MSI from the most prominent researchers and laboratories around the world

Visual Population Codes Nikolaus Kriegeskorte, Gabriel Kreiman, 2012 How visual content is represented in neuronal population codes and how to analyze such codes with multivariate techniques Vision is a massively parallel computational process in which the retinal image is transformed over a sequence of stages so as to emphasize behaviorally relevant information such as object category and identity and deemphasize other information such as viewpoint and lighting The processes behind vision operate by concurrent computation and message passing among neurons within a visual area and between different areas The theoretical concept of population code encapsulates the idea that visual content is represented at each stage by the pattern of activity across the local population of neurons Understanding visual population codes ultimately requires multichannel measurement and multivariate analysis of activity patterns Over the past decade the multivariate approach has gained significant momentum in vision research Functional imaging and cell recording measure brain activity in fundamentally different ways but they now use similar theoretical concepts and mathematical tools in their modeling and analyses With a focus on the ventral processing stream thought to underlie object recognition this book presents recent advances in our understanding of visual population codes novel multivariate pattern information analysis techniques and the beginnings of a unified perspective for cell recording and functional imaging It serves as an introduction overview and reference for scientists and students across disciplines who are interested in human and primate vision and more generally in understanding how the brain represents and processes information

Brain Computation as Hierarchical Abstraction Dana H. Ballard, 2015-02-20 An argument that the complexities of brain function can be understood hierarchically in terms of different levels of abstraction as silicon computing is The vast differences between the brain's neural circuitry and a computer's silicon circuitry might suggest that they have nothing in common In fact as Dana Ballard argues in this book computational tools are essential for understanding brain function Ballard shows that the hierarchical organization of the brain has many parallels with the hierarchical organization of computing as in silicon computing the complexities of brain computation can be dramatically simplified when its computation is factored into different levels of abstraction Drawing on several decades of progress in computational neuroscience together with recent results in Bayesian and reinforcement learning methodologies Ballard factors the brain's principal computational issues in terms of their natural place in an overall hierarchy Each of these factors leads to a fresh perspective A neural level focuses on the basic forebrain functions and shows how processing demands dictate the extensive use of timing based circuitry and an overall organization of tabular memories An embodiment level organization works in reverse making extensive use of multiplexing and on demand processing to achieve fast parallel computation An awareness level focuses on the brain's representations of emotion attention and consciousness showing that they can operate with great economy in the context of the neural and embodiment substrates

Theoretical Neuroscience Laurence F. Abbott, Peter

Dayan, 2005-08-12 Theoretical neuroscience provides a quantitative basis for describing what nervous systems do determining how they function and uncovering the general principles by which they operate This text introduces the basic mathematical and computational methods of theoretical neuroscience and presents applications in a variety of areas including vision sensory motor integration development learning and memory The book is divided into three parts Part I discusses the relationship between sensory stimuli and neural responses focusing on the representation of information by the spiking activity of neurons Part II discusses the modeling of neurons and neural circuits on the basis of cellular and synaptic biophysics Part III analyzes the role of plasticity in development and learning An appendix covers the mathematical methods used and exercises are available on the book's Web site *Neural Control Engineering* Steven J. Schiff, 2022-11-01 How powerful new methods in nonlinear control engineering can be applied to neuroscience from fundamental model formulation to advanced medical applications Over the past sixty years powerful methods of model based control engineering have been responsible for such dramatic advances in engineering systems as autoland aircraft autonomous vehicles and even weather forecasting Over those same decades our models of the nervous system have evolved from single cell membranes to neuronal networks to large scale models of the human brain Yet until recently control theory was completely inapplicable to the types of nonlinear models being developed in neuroscience The revolution in nonlinear control engineering in the late 1990s has made the intersection of control theory and neuroscience possible In *Neural Control Engineering* Steven Schiff seeks to bridge the two fields examining the application of new methods in nonlinear control engineering to neuroscience After presenting extensive material on formulating computational neuroscience models in a control environment including some fundamentals of the algorithms helpful in crossing the divide from intuition to effective application Schiff examines a range of applications including brain machine interfaces and neural stimulation He reports on research that he and his colleagues have undertaken showing that nonlinear control theory methods can be applied to models of single cells small neuronal networks and large scale networks in disease states of Parkinson's disease and epilepsy With *Neural Control Engineering* the reader acquires a working knowledge of the fundamentals of control theory and computational neuroscience sufficient not only to understand the literature in this transdisciplinary area but also to begin working to advance the field The book will serve as an essential guide for scientists in either biology or engineering and for physicians who wish to gain expertise in these areas *Computational Vision* Hanspeter A. Mallot, 2000 This text provides an introduction to computational aspects of early vision in particular color stereo and visual navigation It integrates approaches from psychophysics and quantitative neurobiology as well as theories and algorithms from machine vision and photogrammetry When presenting mathematical material it uses detailed verbal descriptions and illustrations to clarify complex points The text is suitable for upper level students in neuroscience biology and psychology who have basic mathematical skills and are interested in studying the mathematical modeling of perception *Epilepsy as a Dynamic Disease* John Milton, Peter

Jung,2013-04-17 A brain defibrillator may be closer than we think An epileptic seizure involves a paroxysmal change in the activity of millions of neurons Feedback control of seizures would require an implantable device that could predict seizure occurrence and then deliver a stimulus to abort it To examine the feasibility of building such a device this text brings together experts in epilepsy bio engineering and dynamical systems theory Topics include the development of epileptic systems seizure prediction neural synchronization wave phenomena in excitable media and the control of complex neural dynamics using brief electrical stimuli

Gating in Cerebral Networks Mircea Steriade,Denis Pare,2007-09-13 The correct functioning of the mammalian brain depends on the integrated activity of myriad neuronal and non neuronal cells Discrete areas serve discrete functions and dispersed or distributed communities of cells serve others Throughout these networks of activity are under the control of neuromodulatory systems One goal of current neuroscientific research is to elucidate the precise methods by which these systems operate especially during normal conscious behaviours and processes Mircea Steriade and Denis Par describe the neuronal properties and networks that exist within and between the cortex and two important sub cortical structures the thalamus and amygdala The authors explore the changes in these properties covering topics including morphology electrophysiology architecture and gating and comparing regions and systems in both normal and diseased states Aimed at graduates and postdoctoral researchers in neuroscience

Basal Ganglia Circuits Jose L. Lanciego, The current basal ganglia model has been introduced 25 years ago and has settled the basis for most of our current understanding of Parkinson s disease Despite the tremendous success of the model a number of experimental evidences have been made available over the past 25 years and the classical basal ganglia model is somewhat obsolete I believe that it would be possible to recruit a number of international leading experts that have generated new data on basal ganglia circuits and therefore a Research Topic of this kind would lead to the introduction of a fully updated basal ganglia model incorporating all the new basal ganglia circuits that have been characterized over the past 25 years

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Unveiling the Power of Verbal Art: An Mental Sojourn through **Fast Oscillations In Cortical Circuits**

In a global inundated with screens and the cacophony of quick transmission, the profound energy and emotional resonance of verbal beauty usually fade in to obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, nestled within the lyrical pages of **Fast Oscillations In Cortical Circuits**, a captivating perform of literary brilliance that impulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that mesmerizing opus books readers on a mental odyssey, lightly exposing the latent potential and profound influence embedded within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is central subjects, dissect their interesting publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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