

S P I K E S

EXPLORING THE NEURAL CODE

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William Bialek



Spikes Exploring The Neural Code Computational Neuroscience

N. Le Novère



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Spikes Fred Rieke, David Warland, Rob De Ruyter Van Steveninck, William Bialek, 1999-07-26 What does it mean to say that a certain set of spikes is the right answer to a computational problem In what sense does a spike train convey information about the sensory world *Spikes* begins by providing precise formulations of these and related questions about the representation of sensory signals in neural spike trains The answers to these questions are then pursued in experiments on sensory neurons Intended for neurobiologists with an interest in mathematical analysis of neural data as well as the growing number of physicists and mathematicians interested in information processing by real nervous systems *Spikes* provides a self contained review of relevant concepts in information theory and statistical decision theory Our perception of the world is driven by input from the sensory nerves This input arrives encoded as sequences of identical spikes Much of neural computation involves processing these spike trains What does it mean to say that a certain set of spikes is the right answer to a computational problem In what sense does a spike train convey information about the sensory world *Spikes* begins by providing precise formulations of these and related questions about the representation of sensory signals in neural spike trains The answers to these questions are then pursued in experiments on sensory neurons The authors invite the reader to play the role of a hypothetical observer inside the brain who makes decisions based on the incoming spike trains Rather than asking how a neuron responds to a given stimulus the authors ask how the brain could make inferences about an unknown stimulus from a given neural response The flavor of some problems faced by the organism is captured by analyzing the way in which the observer can make a running reconstruction of the sensory stimulus as it evolves in time These ideas are illustrated by examples from experiments on several biological systems Intended for neurobiologists with an interest in mathematical analysis of neural data as well as the growing number of physicists and mathematicians interested in information processing by real nervous systems *Spikes* provides a self contained review of relevant concepts in information theory and statistical decision theory A quantitative framework is used to pose precise questions about the structure of the neural code These questions in turn influence both the design and analysis of experiments on sensory neurons *Spikes* Fred Rieke, 1996 Lectures in Supercomputational Neuroscience Peter Graben, Changsong Zhou, Marco Thiel, Jürgen Kurths, 2007-10-19 Computational Neuroscience is a burgeoning field of research where only the combined effort of neuroscientists biologists psychologists physicists mathematicians computer scientists engineers and other specialists e g from linguistics and medicine seem to be able to expand the limits of our knowledge The present volume is an introduction largely from the physicists perspective to the subject matter with in depth contributions by system neuroscientists A conceptual model for complex networks of neurons is introduced that incorporates many important features of the real brain such as various types of neurons various brain areas inhibitory and excitatory coupling and the plasticity of the network The computational implementation on supercomputers which is introduced and discussed in detail in this book will enable the

readers to modify and adapt the algorithm for their own research. Worked out examples of applications are presented for networks of Morris-Lecar neurons to model the cortical connections of a cat's brain supported with data from experimental studies. This book is particularly suited for graduate students and nonspecialists from related fields with a general science background looking for a substantial but hands-on introduction to the subject matter.

From Neuron to Cognition via Computational Neuroscience Michael A. Arbib, James J. Bonaiuto, 2016-11-11 A comprehensive integrated and accessible textbook presenting core neuroscientific topics from a computational perspective tracing a path from cells and circuits to behavior and cognition. This textbook presents a wide range of subjects in neuroscience from a computational perspective. It offers a comprehensive integrated introduction to core topics using computational tools to trace a path from neurons and circuits to behavior and cognition. Moreover, the chapters show how computational neuroscience methods for modeling the causal interactions underlying neural systems complements empirical research in advancing the understanding of brain and behavior. The chapters, all by leaders in the field and carefully integrated by the editors, cover such subjects as action and motor control, neuroplasticity, neuromodulation and reinforcement learning, vision and language, the core of human cognition. The book can be used for advanced undergraduate or graduate level courses. It presents all necessary background in neuroscience beyond basic facts about neurons and synapses and general ideas about the structure and function of the human brain. Students should be familiar with differential equations and probability theory and be able to pick up the basics of programming in MATLAB and/or Python. Slides, exercises and other ancillary materials are freely available online and many of the models described in the chapters are documented in the brain operation database BODB which is also described in a book chapter.

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Computational Neuroscience Jianfeng Feng, 2003-10-20 How does the brain work? After a century of research we still lack a coherent view of how neurons process signals and control our activities. But as the field of computational neuroscience continues to evolve we find that it provides a theoretical foundation and a set of technological approaches that can significantly enhance our understanding.

Fundamentals of Computational Neuroscience Thomas Trappenberg, 2010 The new edition of Fundamentals of Computational Neuroscience builds on the success and strengths of the first edition. It introduces the theoretical foundations of neuroscience with a focus on the nature of information processing in the brain. The book covers the introduction and motivation of simplified models of neurons that are suitable for exploring

information processing in large brain like networks Additionally it introduces several fundamental network architectures and discusses their relevance for information processing in the brain giving some examples of models of higher order cognitive functions to demonstrate the advanced insight that can be gained with such studies **Computational Neuroscience** J.M. Bower, 2000-07-12 This volume includes papers originally presented at the 8th annual Computational Neuroscience meeting CNS 99 held in July of 1999 in Pittsburgh Pennsylvania The CNS meetings bring together computational neuroscientists representing many different fields and backgrounds as well as experimental preparations and theoretical approaches The papers published here range across vast levels of scale from cellular mechanisms to cognitive brain studies The subjects of the research include many different preparations from invertebrates to humans In all cases the work described in this volume is focused on understanding how nervous systems compute The research described includes subjects like neural coding and neuronal dendrites and reflects a trend towards forging links between cognitive research and neurobiology Accordingly this volume reflects the breadth and depth of current research in computational neuroscience taking place throughout the world

The Computational Neurobiology of Reaching and Pointing Reza Shadmehr, Steven P. Wise, 2004-10-28 An introduction to the computational biology of reaching and pointing with an emphasis on motor learning Neuroscience involves the study of the nervous system and its topics range from genetics to inferential reasoning At its heart however lies a search for understanding how the environment affects the nervous system and how the nervous system in turn empowers us to interact with and alter our environment This empowerment requires motor learning The Computational Neurobiology of Reaching and Pointing addresses the neural mechanisms of one important form of motor learning The authors integrate material from the computational behavioral and neural sciences of motor control that is not available in any other single source The result is a unified comprehensive model of reaching and pointing The book is intended to be used as a text by graduate students in both neuroscience and bioengineering and as a reference source by experts in neuroscience robotics and other disciplines The book begins with an overview of the evolution anatomy and physiology of the motor system including the mechanisms for generating force and maintaining limb stability The sections that follow Computing Locations and Displacements Skills Adaptations and Trajectories and Predictions Decisions and Flexibility present a theory of sensorially guided reaching and pointing that evolves organically based on computational principles rather than a traditional structure by structure approach The book also includes five appendixes that provide brief refreshers on fundamentals of biology mathematics physics and neurophysiology as well as a glossary of relevant terms The authors have also made supplemental materials available on the Internet These web documents provide source code for simulations step by step derivations of certain mathematical formulations and expanded explanations of some concepts **Computational Neuroscience** Hanspeter A.

Mallot, 2024-12-31 This book provides an essential introduction to modeling the nervous system at various levels Readers will learn about the intricate mechanisms of neural activity receptive fields neural networks and information coding The chapters

cover topics such as membrane potentials the Hodgkin Huxley theory receptive fields and their specificity for important stimulus dimensions Fourier analysis for neuroscientists pattern recognition and self organization in neural networks and the structure of neural representations The second edition includes revised text and figures for improved readability and completeness Key points are highlighted throughout to help readers keep track of central ideas Researchers in the field of neuroscience with backgrounds in biology psychology or medicine will find this book particularly beneficial It is also an invaluable reference for all neuroscientists who use computational methods in their daily work Whether you are a theoretical scientist approaching the field or an experienced practitioner seeking to deepen your understanding Computational Neuroscience An Essential Guide to Membrane Potentials Receptive Fields and Neural Networks offers a comprehensive guide to mastering the fundamentals of this dynamic discipline

Computational Systems Neurobiology N. Le Novère, 2012-07-20 Computational neurosciences and systems biology are among the main domains of life science research where mathematical modeling made a difference This book introduces the many different types of computational studies one can develop to study neuronal systems It is aimed at undergraduate students starting their research in computational neurobiology or more senior researchers who would like or need to move towards computational approaches Based on their specific project the readers would then move to one of the more specialized excellent textbooks available in the field The first part of the book deals with molecular systems biology Functional genomics is introduced through examples of transcriptomics and proteomics studies of neurobiological interest Quantitative modelling of biochemical systems is presented in homogeneous compartments and using spatial descriptions A second part deals with the various approaches to model single neuron physiology and naturally moves to neuronal networks A division is focused on the development of neurons and neuronal systems and the book closes on a series of methodological chapters From the molecules to the organ thinking at the level of systems is transforming biology and its impact on society This book will help the reader to hop on the train directly in the tank engine

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