

Fundamentals of Computational Neuroscience

Second Edition



Thomas P. Trappenberg

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The Cambridge Handbook of Cognitive Science Keith Frankish, William Ramsey, 2012-07-19 An authoritative up to date survey of the state of the art in cognitive science written for non specialists *Jasper's Basic Mechanisms of the Epilepsies* Jeffrey Noebels, 2012-06-29 Jasper's Basic Mechanisms Fourth Edition is the newest most ambitious and now clinically relevant publishing project to build on the four decade legacy of the Jasper's series In keeping with the original goal of searching for a better understanding of the epilepsies and rational methods of prevention and treatment the book represents an encyclopedic compendium neurobiological mechanisms of seizures epileptogenesis epilepsy genetics and comorbid conditions Of practical importance to the clinician and new to this edition are disease mechanisms of genetic epilepsies and therapeutic approaches ranging from novel antiepileptic drug targets to cell and gene therapies **Fundamentals of Computational Neuroscience** Thomas Trappenberg, 2010 The new edition of Fundamentals of Computational Neuroscience build 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 *Dynamic Thinking* Gregor Schöner, John P. Spencer, 2016 This book describes a new theoretical approach Dynamic Field Theory DFT that explains how people think and act *Fundamentals of Computational Neuroscience* Thomas P. Trappenberg, 2022-11-24 Computational neuroscience is the theoretical study of the brain to uncover the principles and mechanisms that guide the development organization information processing and mental functions of the nervous system Although not a new area it is only recently that enough knowledge has been gathered to establish computational neuroscience as a scientific discipline in its own right Given the complexity of the field and its increasing importance in progressing our understanding of how the brain works there has long been a need for an introductory text on what is often assumed to be an impenetrable topic The new edition of Fundamentals of Computational Neuroscience build on the success and strengths of the previous editions 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 Each chapter starts by introducing its topic with experimental facts and conceptual questions related to the study of brain function An additional feature is the inclusion of simple Matlab programs that can be used to explore many of the mechanisms explained

in the book An accompanying webpage includes programs for download The book will be the essential text for anyone in the brain sciences who wants to get to grips with this topic **Fundamentals of Computational Neuroscience** Thomas P. Trappenberg,2002 **From Neuron to Cognition via Computational Neuroscience** Michael A. Arbib,James J. Bonaiuto,2016-11-04 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 Contributors Michael A Arbib Joseph Ayers James Bednar Andrej Bicanski James J Bonaiuto Nicolas Brunel Jean Marie Cabelguen Carmen Canavier Angelo Cangelosi Richard P Cooper Carlos R Cortes Nathaniel Daw Paul Dean Peter Ford Dominey Pierre Enel Jean Marc Fellous Stefano Fusi Wulfram Gerstner Frank Grasso Jacqueline A Griego Ziad M Hafez Michael E Hasselmo Auke Ijspeert Stephanie Jones Daniel Kersten Jeremie Knuesel Owen Lewis William W Lytton Tomaso Poggio John Porrill Tony J Prescott John Rinzel Edmund Rolls Jonathan Rubin Nicolas Schweighofer Mohamed A Sherif Malle A Tagamets Paul F M J Verschure Nathan Vierling Claasen Xiao Jing Wang Christopher Williams Ransom Winder Alan L Yuille **Computational Neuroscience** Eric L. Schwartz,1993 From Computer to Brain William W. Lytton,2007-05-08 Biology undergraduates medical students and life science graduate students often have limited mathematical skills Similarly physics math and engineering students have little patience for the detailed facts that make up much of biological knowledge Teaching computational neuroscience as an integrated discipline requires that both groups be brought forward onto common ground This book does this by making ancillary material available in an appendix and providing basic explanations without becoming bogged down in unnecessary details The book will be suitable for undergraduates and beginning graduate students taking a computational neuroscience course and also to anyone with an interest in the uses of the computer in modeling the nervous system *Cognitive and Computational Neuroscience* Seyyed Abed Hosseini,2018 *An Introductory Course in Computational Neuroscience* Paul Miller,2018-10-09

A textbook for students with limited background in mathematics and computer coding emphasizing computer tutorials that guide readers in producing models of neural behavior This introductory text teaches students to understand simulate and analyze the complex behaviors of individual neurons and brain circuits It is built around computer tutorials that guide students in producing models of neural behavior with the associated Matlab code freely available online From these models students learn how individual neurons function and how when connected neurons cooperate in a circuit The book demonstrates through simulated models how oscillations multistability post stimulus rebounds and chaos can arise within either single neurons or circuits and it explores their roles in the brain The book first presents essential background in neuroscience physics mathematics and Matlab with explanations illustrated by many example problems Subsequent chapters cover the neuron and spike production single spike trains and the underlying cognitive processes conductance based models the simulation of synaptic connections firing rate models of large scale circuit operation dynamical systems and their components synaptic plasticity and techniques for analysis of neuron population datasets including principal components analysis hidden Markov modeling and Bayesian decoding Accessible to undergraduates in life sciences with limited background in mathematics and computer coding the book can be used in a flipped or inverted teaching approach with class time devoted to hands on work on the computer tutorials It can also be a resource for graduate students in the life sciences who wish to gain computing skills and a deeper knowledge of neural function and neural circuits

Theoretical Neuroscience Peter Dayan, L. F. Abbott, 2001 **COMPUTATIONAL NEUROSCIENCE** GARETH MORGAN.

THOMAS, 2025 *Nonlinear Dynamics in Computational Neuroscience* Fernando Corinto, Alessandro Torcini, 2018-07-09

This book provides an essential overview of computational neuroscience It addresses a broad range of aspects from physiology to nonlinear dynamical approaches to understanding neural computation and from the simulation of brain circuits to the development of engineering devices and platforms for neuromorphic computation Written by leading experts in such diverse fields as neuroscience physics psychology neural engineering cognitive science and applied mathematics the book reflects the remarkable advances that have been made in the field of computational neuroscience an emerging discipline devoted to the study of brain functions in terms of the information processing properties of the structures forming the nervous system The contents build on the workshop Nonlinear Dynamics in Computational Neuroscience from Physics and Biology to ICT which was held in Torino Italy in September 2015 **Dynamical Systems in Neuroscience** Eugene M.

Izhikevich, 2010-01-22 Explains the relationship of electrophysiology nonlinear dynamics and the computational properties of neurons with each concept presented in terms of both neuroscience and mathematics and illustrated using geometrical intuition In order to model neuronal behavior or to interpret the results of modeling studies neuroscientists must call upon methods of nonlinear dynamics This book offers an introduction to nonlinear dynamical systems theory for researchers and graduate students in neuroscience It also provides an overview of neuroscience for mathematicians who want to learn the

basic facts of electrophysiology Dynamical Systems in Neuroscience presents a systematic study of the relationship of electrophysiology nonlinear dynamics and computational properties of neurons It emphasizes that information processing in the brain depends not only on the electrophysiological properties of neurons but also on their dynamical properties The book introduces dynamical systems starting with one and two dimensional Hodgkin Huxley type models and continuing to a description of bursting systems Each chapter proceeds from the simple to the complex and provides sample problems at the end The book explains all necessary mathematical concepts using geometrical intuition it includes many figures and few equations making it especially suitable for non mathematicians Each concept is presented in terms of both neuroscience and mathematics providing a link between the two disciplines Nonlinear dynamical systems theory is at the core of computational neuroscience research but it is not a standard part of the graduate neuroscience curriculum or taught by math or physics department in a way that is suitable for students of biology This book offers neuroscience students and researchers a comprehensive account of concepts and methods increasingly used in computational neuroscience An additional chapter on synchronization with more advanced material can be found at the author s website www.izhikevich.com

Introduction to Computational Neuroscience Madison White, 2021-11-16 The branch of neuroscience that uses theoretical analysis mathematical models and abstractions of the brain for understanding the nervous system is known as computational neuroscience It is involved in studying the development structure physiology and cognitive abilities of the nervous system The models within this field seek to capture the essential features of the biological system at multi spatial temporal scales These models are used to develop hypotheses which can be tested through biological or psychological experiments The major topics that are studied under computational neuroscience are single neuron modeling sensory processing motor control computational clinical neuroscience cognition discrimination and learning memory and synaptic plasticity This book outlines the processes and applications of computational neuroscience in detail The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail This book will provide comprehensive knowledge to the readers Hippocampal Microcircuits Vassilis Cutsuridis, Bruce P. Graham, Stuart Cobb, Imre

Vida, 2019-02-21 This is the 2nd edition of a very well received and popular book that reflects the current state of the art of the ongoing research avenues concerning the hippocampus and processing units bridging the gap between single cell activity network activity and global brain function It aims to provide a methodology to anyone interested in developing microcircuit level models of the hippocampus The book is divided into two thematic areas I Experimental background and II Computational analysis In part I leading experimental neuroscientists discuss the morphological physiological and molecular characteristics as well as the connectivity and synaptic properties of the various cell types found in the hippocampus Behaviour related ensemble activity patterns of morphologically identified neurons in anesthetized and freely moving animals provide insights on the function of the hippocampal areas In part II computational neuroscientists present models of the

hippocampal microcircuits at various levels of detail e.g. single cell level, network level etc. Synaptotomics and connectotomics models of hippocampal structures are initially discussed. Then network models of memory rhythm generation and spatial navigation are presented followed by abstract and biophysical models of synaptic plasticity. Network models of hippocampal implicated disorders, epilepsy and schizophrenia are then detailed and how their network topologies, connectivities and activities change in these diseases. Finally two chapters are dedicated to describing simulator environments of single neurons and networks currently used by computational neuroscientists in developing their models and modelling tools to parametrically constrain them. This engaging volume is invaluable to experimental and computational neuroscientists, electrical engineers, physicists, mathematicians and others interested in developing microcircuit models of the hippocampus. Graduate level students and trainees in all of these fields can find this book a significant source of information.

Mathematical Foundations of Neuroscience G. Bard Ermentrout, David H. Terman, 2010-07-08 Arising from several courses taught by the authors, this book provides a needed overview illustrating how dynamical systems and computational analysis have been used in understanding the types of models that come out of neuroscience. **Neural Codes and Distributed Representations** L. F. Abbott, Terrence Joseph Sejnowski, 1999

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