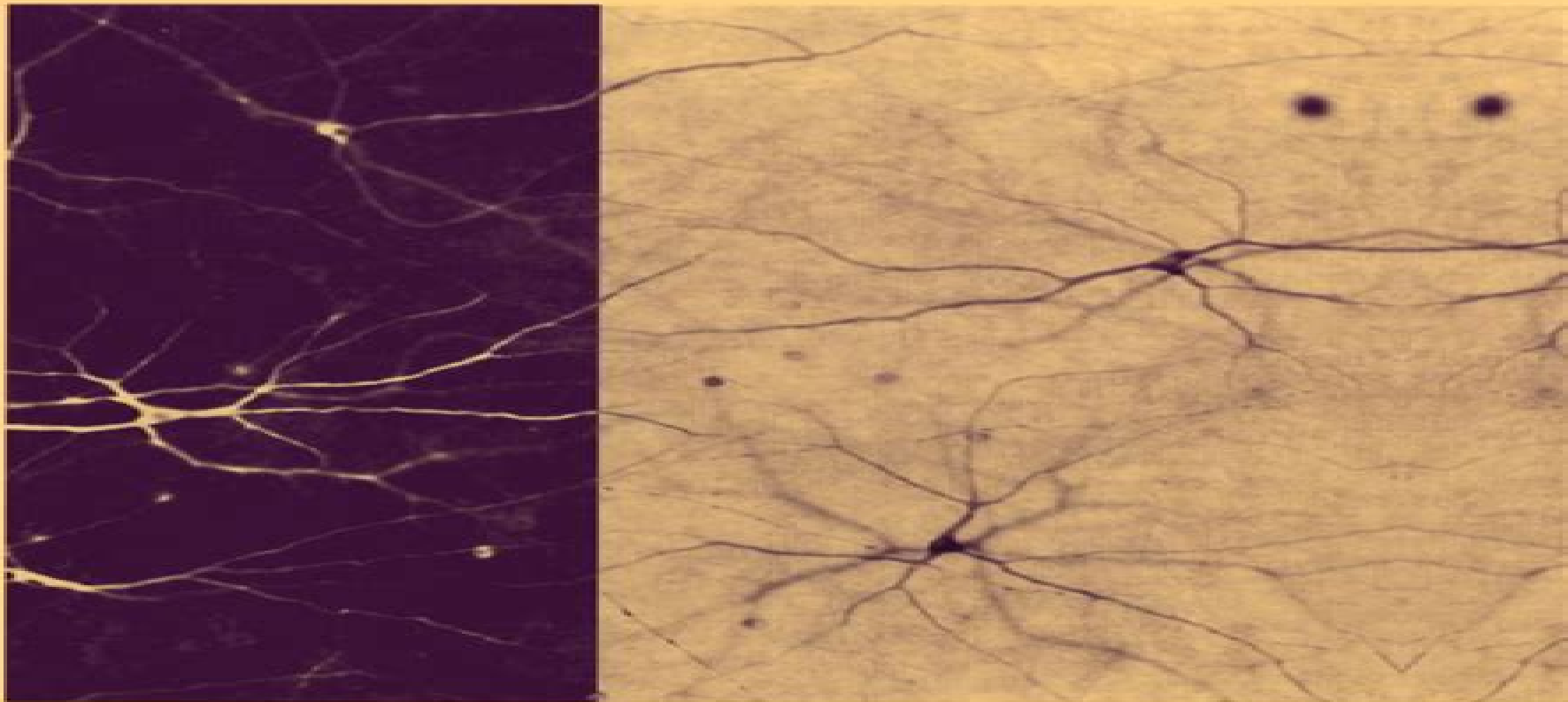


Modeling in the Neurosciences

Edited by Roman R. Poznanski

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From Ionic Channels to Neural Networks



Modeling In The Neurosciences

**Birte U. Forstmann, Eric-Jan
Wagenmakers**



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Modeling in the Neurosciences G. N. Reeke, R.R. Poznanski, K. A. Lindsay, J.R. Rosenberg, O. Sporns, 2005-03-29 Computational models of neural networks have proven insufficient to accurately model brain function mainly as a result of simplifications that ignore the physical reality of neuronal structure in favor of mathematically tractable algorithms and rules Even the more biologically based integrate and fire and compartmental styles of modeling suffer from oversimplification in the former case and excessive discretization in the second This book introduces an integrative approach to modeling neurons and neuronal circuits that retains the integrity of the biological units at all hierarchical levels *Modeling in the Neurosciences* R.R. Poznanski, 2019-01-22 With contributions from more than 40 renowned experts Modeling in the Neurosciences From Ionic Channels to Neural Networks is essential for those interested in neuronal modeling and quantitative neuroscience Focusing on new mathematical and computer models techniques and methods this monograph represents a cohesive and comprehensive treatment

An Introduction to Model-Based Cognitive Neuroscience Birte U. Forstmann, Eric-Jan Wagenmakers, 2015-04-20 Two recent innovations the emergence of formal cognitive models and the addition of cognitive neuroscience data to the traditional behavioral data have resulted in the birth of a new interdisciplinary field of study model based cognitive neuroscience Despite the increasing scientific interest in model based cognitive neuroscience few active researchers and even fewer students have a good knowledge of the two constituent disciplines The main goal of this edited collection is to promote the integration of cognitive modeling and cognitive neuroscience Experts in the field will provide tutorial style chapters that explain particular techniques and highlight their usefulness through concrete examples and numerous case studies The book will also include a thorough list of references pointing the reader towards additional literature and online resources

Modeling in the Neurosciences G. N. Reeke, 2004 Computational models of neural networks have proven insufficient to accurately model brain function mainly as a result of simplifications that ignore the physical reality of neuronal structure in favor of mathematically tractable algorithms and rules Even the more biologically based integrate and fire and compartmental styles of modeling suffer from oversimplification in the former case and excessive discretization in the second This book introduces an integrative approach to modeling neurons and neuronal circuits that retains the integrity of the biological units at all hierarchical levels

Modeling Phase Transitions in the Brain D. Alistair Steyn-Ross, Moira Steyn-Ross, 2010-03-14 Foreword by Walter J Freeman The induction of unconsciousness using anesthetic agents demonstrates that the cerebral cortex can operate in two very different behavioral modes alert and responsive vs unaware and quiescent But the states of wakefulness and sleep are not single neuron properties they emerge as bulk properties of cooperating populations of neurons with the switchover between states being similar to the physical change of phase observed when water freezes or ice melts Some brain state transitions such as sleep cycling anesthetic induction epileptic seizure are obvious and detected readily with a few EEG electrodes others such as the emergence of gamma rhythms during cognition or the ultra slow BOLD rhythms of relaxed free association are much more subtle The unifying theme of this book is the notion that all of these bulk changes in brain behavior can be treated as phase transitions

between distinct brain states Modeling Phase Transitions in the Brain contains chapter contributions from leading researchers who apply state space methods network models and biophysically motivated continuum approaches to investigate a range of neuroscientifically relevant problems that include analysis of nonstationary EEG time series network topologies that limit epileptic spreading saddle node bifurcations for anesthesia sleep cycling and the wake sleep switch prediction of dynamical and noise induced spatiotemporal instabilities underlying BOLD alpha and gamma band Hopf oscillations gap junction moderated Turing structures and Hopf Turing interactions leading to cortical waves

Dynamic Neuroscience Zhe Chen, Sridevi V. Sarma, 2017-12-27 This book shows how to develop efficient quantitative methods to characterize neural data and extra information that reveals underlying dynamics and neurophysiological mechanisms Written by active experts in the field it contains an exchange of innovative ideas among researchers at both computational and experimental ends as well as those at the interface Authors discuss research challenges and new directions in emerging areas with two goals in mind to collect recent advances in statistics signal processing modeling and control methods in neuroscience and to welcome and foster innovative or cross disciplinary ideas along this line of research and discuss important research issues in neural data analysis Making use of both tutorial and review materials this book is written for neural electrical and biomedical engineers computational neuroscientists statisticians computer scientists and clinical engineers

Principles of Computational Modelling in Neuroscience David Sterratt, Bruce Graham, Andrew Gillies, Gaute Einevoll, David Willshaw, 2023-10-05 Taking a step by step approach to modelling neurons and neural circuitry this textbook teaches students how to use computational techniques to understand the nervous system at all levels using case studies throughout to illustrate fundamental principles Starting with a simple model of a neuron the authors gradually introduce neuronal morphology synapses ion channels and intracellular signalling This fully updated new edition contains additional examples and case studies on specific modelling techniques suggestions on different ways to use this book and new chapters covering plasticity modelling extracellular influences on brain circuits modelling experimental measurement processes and choosing appropriate model structures and their parameters The online resources offer exercises and simulation code that recreate many of the book's figures allowing students to practice as they learn Requiring an elementary background in neuroscience and high school mathematics this is an ideal resource for a course on computational neuroscience

Computational Neuroscience Erik De Schutter, 2000-11-22 Designed primarily as an introduction to realistic modeling methods Computational Neuroscience Realistic Modeling for Experimentalists focuses on methodological approaches selecting appropriate methods and identifying potential pitfalls The author addresses varying levels of complexity from molecular interactions within single neurons to the processing of information by neural networks He avoids theoretical mathematics and provides just enough of the basic math used by experimentalists What makes this resource unique is the inclusion of a CD ROM that furnishes interactive modeling examples It contains tutorials and demos movies and images and

the simulation scripts necessary to run the full simulation described in the chapter examples Each chapter covers the theoretical foundation parameters needed appropriate software descriptions evaluation of the model future directions expected examples in text boxes linked to the CD ROM and references The first book to bring you cutting edge developments in neuronal modeling It provides an introduction to realistic modeling methods at levels of complexity varying from molecular interactions to neural networks The book and CD ROM combine to make Computational Neuroscience Realistic Modeling for Experimentalists the complete package for understanding modeling techniques

The Neurosciences, 1979

The Neural Simulation Language Alfredo Weitzenfeld, Michael A. Arbib, Amanda Alexander, 2002 Simulation in NSL Modeling in NSL Schematic Capture System User Interface and Graphical Windows The Modeling Language NSLM The Scripting Language NSLS Adaptive Resonance Theory Depth Perception Retina Receptive Fields The Associative Search Network Landmark Learning and Hill Climbing A Model of Primate Visual Motor Conditional Learning The Modular Design of the Oculomotor System in Monkeys Crowley Arbib Saccade Model A Cerebellar Model of Sensorimotor Adaptation Learning to Detour Face Recognition by Dynamic Link Matching Appendix I NSLM Methods NSLJ Extensions NSLC Extensions NSLJ and NSLC Differences NSLJ and NSLC Installation Instructions

Time Series Modeling of Neuroscience Data Tohru Ozaki, 2012-01-26 Recent advances in brain science measurement technology have given researchers access to very large scale time series data such as EEG MEG data 20 to 100 dimensional and fMRI 140 000 dimensional data To analyze such massive data efficient computational and statistical methods are required Time Series Modeling of Neuroscience Data shows how to

Principles of Computational Modelling in Neuroscience David Sterratt, Bruce Graham, Andrew Gillies, David Willshaw, 2011-06-30 The nervous system is made up of a large number of interacting elements To understand how such a complex system functions requires the construction and analysis of computational models at many different levels This book provides a step by step account of how to model the neuron and neural circuitry to understand the nervous system at all levels from ion channels to networks Starting with a simple model of the neuron as an electrical circuit gradually more details are added to include the effects of neuronal morphology synapses ion channels and intracellular signaling The principle of abstraction is explained through chapters on simplifying models and how simplified models can be used in networks This theme is continued in a final chapter on modeling the development of the nervous system Requiring an elementary background in neuroscience and some high school mathematics this textbook is an ideal basis for a course on computational neuroscience

Introduction to Dynamic Modeling of Neuro-Sensory Systems Robert B. Northrop, 2000-11-27 Although neural modeling has a long history most of the texts available on the subject are quite limited in scope dealing primarily with the simulation of large scale biological neural networks applicable to describing brain function Introduction to Dynamic Modeling of Neuro Sensory Systems presents the mathematical tools and methods that can describe and predict the dynamic behavior of single neurons small assemblies of neurons devoted to a single tasks as well as

larger sensory arrays and their underlying neuropile Focusing on small and medium sized biological neural networks the author pays particular attention to visual feature extraction especially the compound eye visual system and the vertebrate retina For computational efficiency the treatment avoids molecular details of neuron function and uses the locus approach for medium scale modeling of arrays Rather than requiring readers to learn a dedicated simulation program the author uses the general nonlinear ordinary differential equation solver Simnon for all examples and exercises There is both art and science in setting up a computational model that can be validated from existing neurophysiological data With clear prose more than 200 figures and photographs and unique focus Introduction to Dynamic Modeling of Neuro Sensory Systems develops the science nurtures the art and builds the foundation for more advanced work in neuroscience and the rapidly emerging field of neuroengineering

Neurosciences Research Symposium Summaries, 1972 *Artificial Intelligence in Control and Decision-making Systems* Yuriy P. Kondratenko, Vladik Kreinovich, Witold Pedrycz, Arkadii Chikrii, Anna M. Gil-Lafuente, 2023-04-17

This book presents an authoritative collection of contributions reporting on computational intelligence fuzzy systems as well as artificial intelligence techniques for modeling optimization control and decision making together with applications and case studies in engineering management and economic sciences Dedicated to the Academician of the Polish Academy of Sciences Professor Janusz Kacprzyk in recognition of his pioneering work the book reports on theories methods and new challenges in artificial intelligence thus offering not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike The book consists of the 18 chapters presented by distinguished and experienced authors from 16 different countries Australia Brazil Canada Chile Germany Hungary Israel Italy China R N Macedonia Saudi Arabia Spain Turkey United States Ukraine and Vietnam All chapters are grouped into three parts Computational Intelligence and Fuzzy Systems Artificial Intelligence Techniques in Modelling and Optimization and Computational Intelligence in Control and Decision Support Processes The book reflects recent developments and new directions in artificial intelligence including computation method of the interval hull to solutions of interval and fuzzy interval linear systems fuzzy Petri networks in supervisory control of Markov processes in robotic systems fuzzy approaches for linguistic data summaries first approximation analysis for choosing fuzzy or neural systems and type 1 or type 2 fuzzy sets matrix resolving functions in game dynamic problems evolving stacking neuro fuzzy probabilistic networks and their combined learning in online pattern recognition tasks structural optimization of fuzzy control and decision making systems neural and granular fuzzy adaptive modeling state and action abstraction for search and reinforcement learning algorithms Among the most successful and perspective implementations in practical areas of human activity are tentative algorithms for neurological disorders human centric question answering system OWA operators in pensions evaluation of the perception of public safety through fuzzy and multi criteria approach a multicriteria hierarchical approach to investment location choice intelligent traffic signal control and generative adversarial networks in cybersecurity

Computational Neurogenetic Modeling Lubica Benuskova, Nikola K. Kasabov, 2010-05-05 Computational Neurogenetic Modeling is a student text introducing the scope and problems of a new scientific discipline Computational Neurogenetic Modeling CNGM CNGM is concerned with the study and development of dynamic neuronal models for modeling brain functions with respect to genes and dynamic interactions between genes These include neural network models and their integration with gene network models This new area brings together knowledge from various scientific disciplines such as computer and information science neuroscience and cognitive science genetics and molecular biology as well as engineering

Introduction to Neural and Cognitive Modeling Daniel S. Levine, 2000-02 This thoroughly thoughtfully revised edition of a very successful textbook makes the principles and the details of neural network modeling accessible to cognitive scientists of all varieties as well as to others interested in these models Research since the publication of the first edition has been systematically incorporated into a framework of proven pedagogical value Features of the second edition include A new section on spatiotemporal pattern processing Coverage of ARTMAP networks the supervised version of adaptive resonance networks and recurrent back propagation networks A vastly expanded section on models of specific brain areas such as the cerebellum hippocampus basal ganglia and visual and motor cortex Up to date coverage of applications of neural networks in areas such as combinatorial optimization and knowledge representation As in the first edition the text includes extensive introductions to neuroscience and to differential and difference equations as appendices for students without the requisite background in these areas As graphically revealed in the flowchart in the front of the book the text begins with simpler processes and builds up to more complex multilevel functional systems For more information visit the author's personal Web site at www.uta.edu/psychology/faculty/levine **Molecular Biology in Basic and Clinical Neuroscience Research** Jean De Vellis, 1986

CSA Neurosciences Abstracts, 1996 *Information Processing and Management of Uncertainty in Knowledge-Based Systems* Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-30 This book constitutes the proceedings of the 13th conference on Information Processing and Management of Uncertainty in Knowledge Based Systems held in Dortmund Germany in June 2010

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