PROBABILISTIC MODELS OF THE BRAIN

Perception and Neural Function

edited by

Rajesh P. N. Rao, Bruno A. Olshausen, and Michael S. Lewicki

Probabilistic Models Of The Brain Perception And Neural Function Neural Information Processing

Benjamin D. Young,Carolyn Dicey Jennings

Probabilistic Models Of The Brain Perception And Neural Function Neural Information Processing:

Probabilistic Models of the Brain Rajesh P.N. Rao,Bruno A. Olshausen,Michael S. Lewicki,2002-03-29 A survey of probabilistic approaches to modeling and understanding brain function Neurophysiological neuroanatomical and brain imaging studies have helped to shed light on how the brain transforms raw sensory information into a form that is useful for goal directed behavior A fundamental question that is seldom addressed by these studies however is why the brain uses the types of representations it does and what evolutionary advantage if any these representations confer It is difficult to address such questions directly via animal experiments A promising alternative is to use probabilistic principles such as maximum likelihood and Bayesian inference to derive models of brain function This book surveys some of the current probabilistic approaches to modeling and understanding brain function Although most of the examples focus on vision many of the models and techniques are applicable to other modalities as well The book presents top down computational models as well as bottom up neurally motivated models of brain function The topics covered include Bayesian and information theoretic models of perception probabilistic theories of neural coding and spike timing computational models of lateral and cortico cortical feedback connections and the development of receptive field properties from natural signals   Advances in Neural Information Processing Systems 17 Lawrence K. Saul,Yair Weiss,Léon Bottou,2005 Papers presented at NIPS the flagship meeting on neural computation held in December 2004 in Vancouver The annual Neural Information Processing Systems NIPS conference is the flagship meeting on neural computation It draws a diverse group of attendees physicists neuroscientists mathematicians statisticians and computer scientists The presentations are interdisciplinary with contributions in algorithms learning theory cognitive science neuroscience brain imaging vision speech and signal processing reinforcement learning and control emerging technologies and applications Only twenty five percent of the papers submitted are accepted for presentation at NIPS so the quality is exceptionally high This volume contains the papers presented at the December 2004 conference held in Vancouver   **The Cognitive Neurosciences** Michael S. Gazzaniga,2009-09-18 The fourth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biologic underpinnings of complex cognition the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind The material in this edition is entirely new with all chapters written specifically for it Book Jacket   Mind, Cognition, and Neuroscience Benjamin D. Young,Carolyn Dicey Jennings,2022-01-27 This carefully designed multi authored textbook covers a broad range of theoretical issues in cognitive science psychology and neuroscience With accessible language a uniform structure and many pedagogical features Mind Cognition and Neuroscience A Philosophical Introdution is the best high level overview of this area for an interdisciplinary readership of students Written specifically for this volume by experts in their fields who are also experienced teachers the book s thirty chapters are organized into the following parts I Background Knowledge II Classical Debates III Consciousness IV Crossing Boundaries Each chapter starts

with relevant key words and definitions and a chapter overview then presents historical coverage of the topic explains and analyzes contemporary debates and ends with a sketch of cutting edge research A list of suggested readings and helpful discussion topics conclude each chapter This uniform student friendly design makes it possible to teach a cohort of both philosophy and interdisciplinary students without assuming prior understanding of philosophical concepts cognitive science or neuroscience Key Features Synthesizes the now decades long explosion of scientifically informed philosophical research in the study of mind Expands on the offerings of other textbooks by including chapters on language concepts and non conceptual content and animal cognition Offers the same structure in each chapter moving the reader through an overview historical coverage contemporary debates and finally cutting edge research Packed with pedagogical features like defined Key Terms Suggested Readings and Discussion Questions for each chapter as well as a General Glossary Provides readers with clear chapter long introductions to Cognitive Neuroscience Molecular and Cellular Cognition Experimental Methods in Cognitive Neuroscience Philosophy of Mind Philosophy of Science Metaphysical Issues and Epistemic Issues

Encyclopedia of Neuroscience, Volume 1 Larry R. Squire,2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields   Critical Neuroscience and Philosophy David Låg Tomasi,2020-01-30 This book presents an analysis of the correlation between the mind and the body a complex topic of study and discussion by scientists and philosophers Drawing largely on neuroscience and philosophy the author utilizes the scientific method and incorporates lessons learned from a vast array of sources Based on the most recent cutting edge scientific discoveries on the Mind Body problem Tomasi presents a full examination of multiple fields related to neuroscience The volume offers a scientist based and student friendly journey into medicine psychology artificial intelligence embodied cognition and social ecological and anthropological models of perception to discover our truest self   *Lectures in Supercomputational Neuroscience* Peter Graben,Changsong Zhou,Marco Thiel,Jürgen Kurths,2007-10-19 Computational Neurosciences 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 algortihm 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 **Neuroscience of Decision Making** Oshin Vartanian,David R. Mandel,2011-04-14 The intersection between the fields of behavioral decision research and neuroscience has proved to be fertile ground for interdisciplinary research Whereas the former is rich in formalized models of choice the latter is rife with techniques for testing behavioral models at the brain level As a result there has been the rapid emergence of progressively more sophisticated biological models of choice geared toward the development of ever more complete mechanistic models of behavior This volume provides a coherent framework for distilling some of the key themes that have emerged as a function of this research program and highlights what we have learned about judgment and decision making as a result Although topics that are theoretically relevant to judgment and decision making researchers are addressed the book also ventures somewhat beyond the traditional boundaries of this area to tackle themes that would of interest to a greater community of scholars Neuroscience of Decision Making provides contemporary and essential reading for researchers and students of cognitive psychology neuroscience philosophy and economics Empiricism and Language Learnability Nick Chater,Alexander Simon Clark,John A. Goldsmith,Amy Perfors,2015 This book explores one of the central theoretical problems in linguistics learnability Written by four researchers in linguistics psychology computer science and cognitive science it sheds light on the problems of learnability and language and their implications for key theoretical linguistics and the study of language acquisition **Toward Brain-computer Interfacing** Guido Dornhege,2007 This volume presents a timely overview of the latest BCI research with contributions from many of the important research groups in the field **From Motor Learning to Interaction Learning in Robots** Olivier Sigaud,Jan Peters,2010-02-04 From an engineering standpoint the increasing complexity of robotic systems and the increasing demand for more autonomously learning robots has become essential This book is largely based on the successful workshop From motor to interaction learning in robots held at the IEEE RSJ International Conference on Intelligent Robot Systems The major aim of the book is to give students interested the topics described above a chance to get started faster and researchers a helpful compandium Practical Applications of Sparse Modeling Irina Rish,Guillermo A. Cecchi,Aurelie Lozano,Alexandru Niculescu-Mizil,2014-09-19 Key approaches in the rapidly developing area of sparse modeling focusing on its application in fields including neuroscience computational biology and computer vision Sparse modeling is a rapidly developing area at the intersection of statistical learning and signal processing motivated by the age old statistical problem of selecting a small number of predictive variables in high dimensional datasets This collection describes key approaches in sparse modeling

focusing on its applications in fields including neuroscience computational biology and computer vision Sparse modeling methods can improve the interpretability of predictive models and aid efficient recovery of high dimensional unobserved signals from a limited number of measurements Yet despite significant advances in the field a number of open issues remain when sparse modeling meets real life applications The book discusses a range of practical applications and state of the art approaches for tackling the challenges presented by these applications Topics considered include the choice of method in genomics applications analysis of protein mass spectrometry data the stability of sparse models in brain imaging applications sequential testing approaches algorithmic aspects of sparse recovery and learning sparse latent models Contributors A Vania Apkarian Marwan Baliki Melissa K Carroll Guillermo A Cecchi Volkan Cevher Xi Chen Nathan W Churchill R mi Emonet Rahul Garg Zoubin Ghahramani Lars Kai Hansen Matthias Hein Katherine Heller Sina Jafarpour Seyoung Kim Mladen Kolar Anastasios Kyrillidis Seunghak Lee Aurelie Lozano Matthew L Malloy Pablo Meyer Shakir Mohamed Alexandru Niculescu Mizil Robert D Nowak Jean Marc Odobez Peter M Rasmussen Irina Rish Saharon Rosset Martin Slawski Stephen C Strother Jagannadan Varadarajan Eric P Xing *Creating Brain-Like Intelligence* Bernhard Sendhoff,Edgar Körner,Olaf Sporns,Helge Ritter,Kenji Doya,2009-04-02 TheInternationalSymposiumCreatingBrain LikeIntelligencewasheldinFeb ary 2007 in Germany The symposium brought together notable scientists from di erent backgrounds and with di erent expertise related to the emerging eld of brain like intelligence Our understanding of the principles behind brain like intelligence is still limited After all we have had to acknowledge that after tremendous advances in areas like neural networks computational and arti cial intelligence a eld that had just celebrated its 50 year anniversary and fuzzy systems we are still not able to mimic even the lower level sensory capabilities of humans or animals We asked what the biggest obstacles are and how we could gain ground toward a scienti c understanding of the autonomy exibility and robustness of intelligent biological systems as they strive to survive New principles are usually found at the interfaces between existing disciplines and traditional boundaries between disciplines have to be broken down to see how complex systems become simple and how the puzzle can be assembled During the symposium we could identify some recurring themes that p vaded many of the talks and discussions The triad of structure dynamics and environment theroleoftheenvironmentasanactivepartnerinshapingsystems adaptivity on all scales learning development evolution and the amalga tion of an internal and external world in brain like intelligence rate high among them Each of us is rooted in a certain community which we have to serve with the results of our research Looking beyond our elds and working at the interfaces between established areas of research requires e ort and an active process <u>Model-Based Reasoning in Science and Technology</u> Ángel Nepomuceno-Fernández,Lorenzo Magnani,Francisco J. Salguero-Lamillar,Cristina Barés-Gómez,Matthieu Fontaine,2019-10-24 This book discusses how scientific and other types of cognition make use of models abduction and explanatory reasoning in order to produce important and innovative changes in theories and concepts Gathering revised contributions presented at the international conference on Model Based Reasoning

MBR18 held on October 24 26 2018 in Seville Spain the book is divided into three main parts The first focuses on models reasoning and representation It highlights key theoretical concepts from an applied perspective and addresses issues concerning information visualization experimental methods and design The second part goes a step further examining abduction problem solving and reasoning The respective papers assess different types of reasoning and discuss various concepts of inference and creativity and their relationship with experimental data In turn the third part reports on a number of epistemological and technological issues By analyzing possible contradictions in modern research and describing representative case studies this part is intended to foster new discussions and stimulate new ideas All in all the book provides researchers and graduate students in the fields of applied philosophy epistemology cognitive science and artificial intelligence alike with an authoritative snapshot of the latest theories and applications of model based reasoning *The Routledge Companion to Philosophy of Psychology* Sarah Robins,John Symons,Paco Calvo,2019-10-08 The Routledge Companion to Philosophy of Psychology Second Edition is an invaluable guide and major reference source to the key topics problems concepts and debates in philosophy of psychology and is the first companion of its kind A team of renowned international contributors provide forty eight chapters organized into six clear parts Historical background to philosophy of psychology Psychological explanation Cognition and representation The biological basis of psychology Perceptual experience Personhood The Companion covers key topics such as the origins of experimental psychology folk psychology behaviorism and functionalism philosophy psychology and neuroscience the language of thought modularity nativism and representational theories of mind consciousness and the senses dreams emotion and temporality personal identity and the philosophy of psychopathology For the second edition six new chapters have been added to address the following important topics belief and representation in nonhuman animals prediction error minimization contemporary neuroscience plant neurobiology epistemic judgment and group cognition Essential reading for all students of philosophy of mind science and psychology The Routledge Companion to Philosophy of Psychology will also be of interest to anyone studying psychology and its related disciplines **Form Versus Function: Theory and Models for Neuronal Substrates** Mihai Alexandru Petrovici,2016-07-19 This thesis addresses one of the most fundamental challenges for modern science how can the brain as a network of neurons process information how can it create and store internal models of our world and how can it infer conclusions from ambiguous data The author addresses these questions with the rigorous language of mathematics and theoretical physics an approach that requires a high degree of abstraction to transfer results of wet lab biology to formal models The thesis starts with an in depth description of the state of the art in theoretical neuroscience which it subsequently uses as a basis to develop several new and original ideas Throughout the text the author connects the form and function of neuronal networks This is done in order to achieve functional performance of biological brains by transferring their form to synthetic electronics substrates an approach referred to as neuromorphic computing The obvious aspect that this transfer

can never be perfect but necessarily leads to performance differences is substantiated and explored in detail The author also introduces a novel interpretation of the firing activity of neurons He proposes a probabilistic interpretation of this activity and shows by means of formal derivations that stochastic neurons can sample from internally stored probability distributions This is corroborated by the author s recent findings which confirm that biological features like the high conductance state of networks enable this mechanism The author goes on to show that neural sampling can be implemented on synthetic neuromorphic circuits paving the way for future applications in machine learning and cognitive computing for example as energy efficient implementations of deep learning networks The thesis offers an essential resource for newcomers to the field and an inspiration for scientists working in theoretical neuroscience and the future of computing *20 Years of Computational Neuroscience* James M Bower,2013-07-11 When funding agencies and policy organizations consider the role of modeling and simulation in modern biology the question is often posed what has been accomplished This book will be organized around a symposium on the 20 year history of the CNS meetings to be held as part of CNS 2010 in San Antonio Texas in July 2010 The book like the symposium is intended to summarize progress made in Computational Neuroscience over the last 20 years while also considering current challenges in the field As described in the table of contents the chapter s authors have been selected to provide wide coverage of the applications of computational techniques to a broad range of questions and model systems in neuroscience The proposed book will include several features that establish the history of the field For each article its author will select an article originally appearing in a CNS conference proceedings from 15 20 years ago These short less than 6 page articles will provide illustrations of the state of the field 20 years ago The new articles will describe what has been learned about the subject in the following 20 years and pose specific challenges for the next 20 years The second historical mechanism will be the reproduction of the first 12 years of posters from the CNS meeting These posters in and of themselves have become famous in the field they hang in the halls of the NIH in Bethesda Maryland and were constructed as allegories for the state and development of computational neuroscience The posters were designed by the book s editor who will for the first time provide a written description of each poster **Introduction to Modeling Cognitive Processes** Tom Verguts,2022-02-08 An introduction to computational modeling for cognitive neuroscientists covering both foundational work and recent developments Cognitive neuroscientists need sophisticated conceptual tools to make sense of their field s proliferation of novel theories methods and data Computational modeling is such a tool enabling researchers to turn theories into precise formulations This book offers a mathematically gentle and theoretically unified introduction to modeling cognitive processes Theoretical exercises of varying degrees of difficulty throughout help readers develop their modeling skills After a general introduction to cognitive modeling and optimization the book covers models of decision making supervised learning algorithms including Hebbian learning delta rule and backpropagation the statistical model analysis methods of model parameter estimation and model evaluation the three recent cognitive modeling approaches

of reinforcement learning unsupervised learning and Bayesian models and models of social interaction All mathematical concepts are introduced gradually with no background in advanced topics required Hints and solutions for exercises and a glossary follow the main text All code in the book is Python with the Spyder editor in the Anaconda environment A GitHub repository with Python files enables readers to access the computer code used and start programming themselves The book is suitable as an introduction to modeling cognitive processes for students across a range of disciplines and as a reference for researchers interested in a broad overview   Analysis and Modeling of Coordinated Multi-neuronal Activity Masami Tatsuno,2014-11-13 Since information in the brain is processed by the exchange of spikes among neurons a study of such group dynamics is extremely important in understanding hippocampus dependent memory These spike patterns and local field potentials LFPs have been analyzed by various statistical methods These studies have led to important findings of memory information processing For example memory trace replay a reactivation of behaviorally induced neural patterns during subsequent sleep has been suggested to play an important role in memory consolidation It has also been suggested that a ripple sharp wave event one of the characteristics of LFPs in the hippocampus and spiking activity in the cortex have a specific relationship that may facilitate the consolidation of hippocampal dependent memory from the hippocampus to the cortex The book will provide a state of the art finding of memory information processing through the analysis of multi neuronal data The first half of the book is devoted to this analysis aspect Understanding memory information representation and its consolidation however cannot be achieved only by analyzing the data It is extremely important to construct a computational model to seek an underlying mathematical principle In other words an entire picture of hippocampus dependent memory system would be elucidated through close collaboration among experiments data analysis and computational modeling Not only does computational modeling benefit the data analysis of multi electrode recordings but it also provides useful insight for future experiments and analyses The second half of the book will be devoted to the computational modeling of hippocampus dependent memory   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

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