


Stephen Coombes · Peter beim Graben
Roland Potthast · James Wright Editors

Neural Fields

Theory and Applications

 Springer

Neural Fields Theory And Applications

**Jose Acacio de Barros, Bob
Coecke, Emmanuel Pothos**



Neural Fields Theory And Applications:

Neural Fields Stephen Coombes, Peter beim Graben, Roland Potthast, James Wright, 2014-06-17 Neural field theory has a long standing tradition in the mathematical and computational neurosciences Beginning almost 50 years ago with seminal work by Griffiths and culminating in the 1970ties with the models of Wilson and Cowan Nunez and Amari this important research area experienced a renaissance during the 1990ties by the groups of Ermentrout Robinson Bressloff Wright and Haken Since then much progress has been made in both the development of mathematical and numerical techniques and in physiological refinement und understanding In contrast to large scale neural network models described by huge connectivity matrices that are computationally expensive in numerical simulations neural field models described by connectivity kernels allow for analytical treatment by means of methods from functional analysis Thus a number of rigorous results on the existence of bump and wave solutions or on inverse kernel construction problems are nowadays available Moreover neural fields provide an important interface for the coupling of neural activity to experimentally observable data such as the electroencephalogram EEG or functional magnetic resonance imaging fMRI And finally neural fields over rather abstract feature spaces also called dynamic fields found successful applications in the cognitive sciences and in robotics Up to now research results in neural field theory have been disseminated across a number of distinct journals from mathematics computational neuroscience biophysics cognitive science and others There is no comprehensive collection of results or reviews available yet With our proposed book Neural Field Theory we aim at filling this gap in the market We received consent from some of the leading scientists in the field who are willing to write contributions for the book among them are two of the founding fathers of neural field theory Shun ichi Amari and Jack Cowan **Dynamic Neural Field Theory for Motion Perception** Martin A. Giese, 2012-12-06 Dynamic Neural Field Theory for Motion Perception provides a new theoretical framework that permits a systematic analysis of the dynamic properties of motion perception This framework uses dynamic neural fields as a key mathematical concept The author demonstrates how neural fields can be applied for the analysis of perceptual phenomena and its underlying neural processes Also similar principles form a basis for the design of computer vision systems as well as the design of artificially behaving systems The book discusses in detail the application of this theoretical approach to motion perception and will be of great interest to researchers in vision science psychophysics and biological visual systems *Metastable Dynamics of Neural Ensembles* Emili Balaguer-Ballester, Ruben Moreno-Bote, Gustavo Deco, Daniel Durstewitz, 2018-03-19 A classical view of neural computation is that it can be characterized in terms of convergence to attractor states or sequential transitions among states in a noisy background After over three decades is this still a valid model of how brain dynamics implements cognition This book provides a comprehensive collection of recent theoretical and experimental contributions addressing the question of stable versus transient neural population dynamics from complementary angles These studies showcase recent efforts for designing a

framework that encompasses the multiple facets of metastability in neural responses one of the most exciting topics currently in systems and computational neuroscience

Advances in Mathematical Methods and High Performance

Computing Vinai K. Singh, David Gao, Andreas Fischer, 2019-02-14 This special volume of the conference will be of immense use to the researchers and academicians In this conference academicians technocrats and researchers will get an opportunity to interact with eminent persons in the field of Applied Mathematics and Scientific Computing The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area High Performance Computing HPC systems have gone through many changes during the past two decades in their architectural design to satisfy the increasingly large scale scientific computing demand Accurate fast and scalable performance models and simulation tools are essential for evaluating alternative architecture design decisions for the massive scale computing systems This conference recounts some of the influential work in modeling and simulation for HPC systems and applications identifies some of the major challenges and outlines future research directions which we believe are critical to the HPC modeling and simulation community

Quantum Computing

For The Brain Melanie Swan, Renato P Dos Santos, Mikhail A Lebedev, Frank Witte, 2022-05-30 Quantum Computing for the Brain argues that the brain is the killer application for quantum computing No other system is as complex as multidimensional in time and space as dynamic as less well understood as of peak interest and as in need of three dimensional modeling as it functions in real life as the brain Quantum computing has emerged as a platform suited to contemporary data processing needs surpassing classical computing and supercomputing This book shows how quantum computing s increased capacity to model classical data with quantum states and the ability to run more complex permutations of problems can be employed in neuroscience applications such as neural signaling and synaptic integration State of the art methods are discussed such as quantum machine learning tensor networks Born machines quantum kernel learning wavelet transforms Rydberg atom arrays ion traps boson sampling graph theoretic models quantum optical machine learning neuromorphic architectures spiking neural networks quantum teleportation and quantum walks Quantum Computing for the Brain is a comprehensive one stop resource for an improved understanding of the converging research frontiers of foundational physics information theory and neuroscience in the context of quantum computing

Mathematical and Theoretical Neuroscience Giovanni Naldi, Thierry Nieus, 2018-03-20 This volume gathers contributions from theoretical experimental and computational researchers who are working on various topics in theoretical computational mathematical neuroscience The focus is on mathematical modeling analytical and numerical topics and statistical analysis in neuroscience with applications The following subjects are considered mathematical modelling in Neuroscience analytical and numerical topics statistical analysis in Neuroscience Neural Networks Theoretical Neuroscience The book is addressed to researchers involved in mathematical models applied to neuroscience

Neurodynamics Stephen Coombes, Kyle C. A.

Wedgwood,2023-05-09 This book is about the dynamics of neural systems and should be suitable for those with a background in mathematics physics or engineering who want to see how their knowledge and skill sets can be applied in a neurobiological context No prior knowledge of neuroscience is assumed nor is advanced understanding of all aspects of applied mathematics Rather models and methods are introduced in the context of a typical neural phenomenon and a narrative developed that will allow the reader to test their understanding by tackling a set of mathematical problems at the end of each chapter The emphasis is on mathematical as opposed to computational neuroscience though stresses calculation above theorem and proof The book presents necessary mathematical material in a digestible and compact form when required for specific topics The book has nine chapters progressing from the cell to the tissue and an extensive set of references It includes Markov chain models for ions differential equations for single neuron models idealised phenomenological models phase oscillator networks spiking networks and integro differential equations for large scale brain activity with delays and stochasticity thrown in for good measure One common methodological element that arises throughout the book is the use of techniques from nonsmooth dynamical systems to form tractable models and make explicit progress in calculating solutions for rhythmic neural behaviour synchrony waves patterns and their stability This book was written for those with an interest in applied mathematics seeking to expand their horizons to cover the dynamics of neural systems It is suitable for a Masters level course or for postgraduate researchers starting in the field of mathematical neuroscience Neural Masses and Fields: Modelling the Dynamics of Brain Activity Karl Friston,2015-05-25 Biophysical modelling of brain activity has a long and illustrious history and has recently profited from technological advances that furnish neuroimaging data at an unprecedented spatiotemporal resolution Neuronal modelling is a very active area of research with applications ranging from the characterization of neurobiological and cognitive processes to constructing artificial brains in silico and building brain machine interface and neuroprosthetic devices Biophysical modelling has always benefited from interdisciplinary interactions between different and seemingly distant fields ranging from mathematics and engineering to linguistics and psychology This Research Topic aims to promote such interactions by promoting papers that contribute to a deeper understanding of neural activity as measured by fMRI or electrophysiology In general mean field models of neural activity can be divided into two classes neural mass and neural field models The main difference between these classes is that field models prescribe how a quantity characterizing neural activity such as average depolarization of a neural population evolves over both space and time as opposed to mass models which characterize activity over time only by assuming that all neurons in a population are located at approximately the same point This Research Topic focuses on both classes of models and considers several aspects and their relative merits that span from synapses to the whole brain comparisons of their predictions with EEG and MEG spectra of spontaneous brain activity evoked responses seizures and fitting data to infer brain states and map physiological parameters The Art of Theoretical Biology Franziska

Matthäus, Sebastian Matthäus, Sarah Harris, Thomas Hillen, 2020-04-16 This beautifully crafted book collects images which were created during the process of research in all fields of theoretical biology Data analysis numerical treatment of a model or simulation results yield stunning images which represent pieces of art just by themselves The approach of the book is to present for each piece of visualization a lucid synopsis of the scientific background as well as an outline of the artistic vision

The Embodied Brain: Computational Mechanisms of Integrated Sensorimotor Interactions with a Dynamic Environment Mario Senden, Judith Peters, Florian Röhrbein, Rainer Goebel, Gustavo Deco, 2020-07-31 *Systemics of Emergence* Gianfranco Minati, Eliano Pessa, Mario Abram, 2006 Within the General Systems Theory GST approach it is possible to focus on emergent systemic properties typically occurring in open adaptive anticipatory and chaotic systems by stressing their specificity and their lack of reducibility into further components In other words emergence underlies the processes allowing the establishing of systemic properties Research on emergence deals with experimental detection modeling and simulation of processes giving rise to the occurrence of macroscopic often complex and unexpected behaviors in complex systems consisting of a large number of components Actually such a theoretical and experimental effort relies on analytical methods such as the ones used in modern theories of self organization collective behaviors phase transitions and artificial life In sum the research on emergence analyzes the engine of GST while GST itself focuses on the general outcomes of this research thus conceptually inducing an inter and trans disciplinary context SYSTEMICS OF EMERGENCE Research and Development is a volume devoted to exploring the core theoretical and disciplinary research problems of emergence processes from which systems are established It focuses on emergence as the key point of any systemic process This topic is dealt with within different disciplinary approaches indicated by the organization in sections 1 Applications 2 Biology and human care 3 Cognitive Science 4 Emergence 5 General Systems 6 Learning 7 Management 8 Social Systems 9 Systemic Approach and Information Science 10 Theoretical issues in Systemics The Editors and contributing authors have produced this volume to help encourage and widen the work in this area of General Systems Research [The Cambridge Handbook of Computational Cognitive Sciences](#) Ron Sun, 2023-05-11 The Cambridge Handbook of Computational Cognitive Sciences is a comprehensive reference for this rapidly developing and highly interdisciplinary field Written with both newcomers and experts in mind it provides an accessible introduction of paradigms methodologies approaches and models with ample detail and illustrated by examples It should appeal to researchers and students working within the computational cognitive sciences as well as those working in adjacent fields including philosophy psychology linguistics anthropology education neuroscience artificial intelligence computer science and more **Bayesian Field Theory** Jörg C. Lemm, 2003-07-08 Ask a traditional mathematician the likely outcome of a coin toss and he will reply that no evidence exists on which to base such a prediction Ask a Bayesian and he will examine the coin conclude that it was probably not tampered with and predict five hundred heads in a thousand tosses a subsequent experiment would then be used to refine this prediction The Bayesian approach in other

words permits the use of prior knowledge when testing a hypothesis Long the province of mathematicians and statisticians Bayesian methods are applied in this ground breaking book to problems in cutting edge physics Joerg Lemm offers practical examples of Bayesian analysis for the physicist working in such areas as neural networks artificial intelligence and inverse problems in quantum theory The book also includes nonparametric density estimation problems including as special cases nonparametric regression and pattern recognition Thought provoking and sure to be controversial Bayesian Field Theory will be of interest to physicists as well as to other specialists in the rapidly growing number of fields that make use of Bayesian methods

Large Deviations Applied to Classical and Quantum Field Theory Harish Parthasarathy, 2022-12-22 This book deals with a variety of problems in Physics and Engineering where the large deviation principle of probability finds application Large deviations is a branch of probability theory dealing with approximate computation of the probabilities of rare events It contains applications of the LDP to pattern recognition problems like analysis of the performance of the EM algorithm for optimal parameter estimation in the presence of weak noise analysis and control of non Abelian gauge fields in the presence of noise and quantum gravity wherein we are concerned with perturbation to the quadratic component of the Einstein Hilbert Hamiltonian caused by higher order nonlinear terms in the position fields and their effect on the Gibbs statistics and consequently quantum probabilities of events computed using the quantum Gibbs state The reader will also find in this book applications of LDP to quantum filtering theory as developed by Belavkin based on the celebrated Hudson Parthasarathy quantum stochastic calculus Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan and Bhutan

Methodologies For The Conception, Design And Application Of Soft Computing - Proceedings Of The 5th International Conference On Soft Computing And Information/intelligent Systems (In 2 Volumes) Gen Matsumoto, Takeshi Yamakawa, 1998-08-25 Soft computing is the common name for a certain form of natural information processing that has its original form in biology especially in the function of human brain It is a discipline rooted in a group of technologies such as fuzzy logic neural networks chaos genetic algorithms probabilistic reasoning and learning algorithms Today soft computing has become an acknowledged concept however for a long time such components of soft computing have been debated and individually developed Since its beginning in 1990 the series of IIZUKA conferences has covered various kinds of technologies that constitute soft computing This series has played a pioneering role in promoting the development of a symbiotic relationship between the various technologies of soft computing At IIZUKA 98 the 5th International Conference on Soft Computing and Information Intelligent Systems new developments and results in this field were introduced and discussed by researchers from academic governmental and industrial institutions around the world This volume presents the opening lecture by Prof Walter J Freeman the keynote speech by Dr Gen Matsumoto the plenary lectures by 5 eminent researchers and about 230 carefully selected papers drawn from more than 25 countries It documents current research and in depth studies on the fundamental aspects of soft computing and their practical applications

Theory and Applications

of Ordered Fuzzy Numbers Piotr Prokopowicz, Jacek Czerniak, Dariusz Mikołajewski, Łukasz Apiecionek, Dominik Ślęzak, 2017-10-18 This book is open access under a CC BY 4.0 license This open access book offers comprehensive coverage on Ordered Fuzzy Numbers providing readers with both the basic information and the necessary expertise to use them in a variety of real world applications The respective chapters written by leading researchers discuss the main techniques and applications together with the advantages and shortcomings of these tools in comparison to other fuzzy number representation models Primarily intended for engineers and researchers in the field of fuzzy arithmetic the book also offers a valuable source of basic information on fuzzy models and an easy to understand reference guide to their applications for advanced undergraduate students operations researchers modelers and managers alike

Quantum Interaction Jose Acacio de Barros, Bob Coecke, Emmanuel Pothos, 2017-01-23 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Quantum Interaction QI 2016 held in San Francisco CA USA in July 2016 The 21 papers presented in this book were carefully reviewed and selected from 39 submissions The papers address topics such as Fundamentals Quantum Cognition Language and Applications Contextuality and Foundations of Probability and Quantum Like Measurements *Editor's pick e-book: highlighted research from Frontiers in Computational Neuroscience 2025*

Misha Tsodyks, Si Wu, 2025-06-27 Frontiers in Computational Neuroscience is a multidisciplinary journal that focuses on the theoretical modeling of brain function and encourages multidisciplinary interactions between theoretical and experimental neuroscience Our mission aligns closely with advancing global health and wellness goals particularly the United Nations Sustainable Development Goal 3 good health and well being by promoting a deeper understanding of brain function and fostering research and collaboration in the field This contributes to the development of new knowledge and technologies that can potentially improve mental health neurological disorders and overall well being aligning with the broader goal of ensuring healthy lives and promoting well being for all at all ages Here we are pleased to introduce this Theme book entitled Research Highlights from Frontiers in Computational Neuroscience 2024 curated by our esteemed Chief Editors of Frontiers in Computational Neuroscience This collection honors the remarkable contributions of authors who have furthered our understanding of computational neuroscience through innovative and impactful research The work presented here spotlights the broad diversity of exciting research performed across the journal We hope you enjoy our selection of key articles We also thank all authors editors and reviewers of Frontiers in Computational Neuroscience for their contributions to our journal and look forward to another exciting year in 2025

From Structure to Function in Neuronal Networks: Effects of Adaptation, Time-Delays, and Noise Serhiy Yanchuk, Viktor Jirsa, Joana Cabral, Oleksandr Popovych, Alessandro Torcini, 2022-05-06

Advances in Child Development and Behavior, 2017-02-18 Advances in Child Development and Behavior Volume 52 includes chapters that highlight some of the most recent research in the field of developmental psychology Each chapter provides in depth discussions with this volume serving as an invaluable resource for developmental

or educational psychology researchers scholars and students Contains chapters that highlight some of the most recent research in the area of child development and behavior Presents a wide array of topics that are discussed in detail

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web fao supports governments and partners to design the right policies and programmes to end hunger promote food security and promote sustainable agriculture for millions of people around the world hover the mouse over an sdg icon for more information

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