

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

Neural Fields

Theory and Applications

 Springer

Neural Fields Theory And Applications

**Melanie Swan, Renato P Dos
Santos, Mikhail A Lebedev, Frank Witte**



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 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

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

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

Mathematical and Theoretical Neuroscience Giovanni Naldi, Thierry Nieu, 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

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 **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 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 **Cognitive Science** Harald Maurer, 2021-07-08 The Mind

and Brain are usually considered as one and the same nonlinear complex dynamical system in which information processing can be described with vector and tensor transformations and with attractors in multidimensional state spaces Thus an internal neurocognitive representation concept consists of a dynamical process which filters out statistical prototypes from the sensorial information in terms of coherent and adaptive n dimensional vector fields These prototypes serve as a basis for dynamic probabilistic predictions or probabilistic hypotheses on prospective new data see the recently introduced approach of predictive coding in neurophilosophy Furthermore the phenomenon of sensory and language cognition would thus be

based on a multitude of self regulatory complex dynamics of synchronous self organization mechanisms in other words an emergent flux equilibrium process steady state of the total collective and coherent neural activity resulting from the oscillatory actions of neuronal assemblies In perception it is shown how sensory object informations like the object color or the object form can be dynamically related together or can be integrated to a neurally based representation of this perceptual object by means of a synchronization mechanism feature binding In language processing it is shown how semantic concepts and syntactic roles can be dynamically related together or can be integrated to neurally based systematic and compositional connectionist representations by means of a synchronization mechanism variable binding solving the Fodor Pylyshyn Challenge Since the systemtheoretical connectionism has succeeded in modeling the sensory objects in perception as well as systematic and compositional representations in language processing with this vector and oscillation based representation format a new convincing theory of neurocognition has been developed which bridges the neuronal and the cognitive analysis level The book describes how elementary neuronal information is combined in perception and language so it becomes clear how the brain processes this information to enable basic cognitive performance of the humans

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

Biomimetic and Biohybrid Systems Nicholas S. Szczecinski, Victoria Webster-Wood, Matthew Tresch, William R. P. Nourse, Anna Mura, Roger D. Quinn, 2024-12-12 This proceeding constitutes the 13th International Conference on Biomimetic and Biohybrid Systems held in Chicago IL USA during July 8 11 2024 The 27 full papers and 4 short papers were carefully reviewed and selected from 35 submissions They were categorized under the following topics Brain Network Modeling Tools for Studying Behaviors Sensors and Sensing Navigational Systems Control and Mechanics of Soft and Continuum Systems System Design Neural Networks for Computation Bio Inspired Neural Networks for Control Biohybrid Systems and Biomechanics

Intelligence Science Zhongzhi Shi, 2012 Intelligence Science is an interdisciplinary subject dedicated to joint research on basic theory and technology of intelligence by brain science cognitive science artificial intelligence and others Brain science explores the essence of brain research on the principle and model of natural intelligence at the molecular cell and behavior level Cognitive science studies human mental activity such as perception learning memory thinking consciousness etc In order to implement machine intelligence artificial intelligence attempts simulation extension and expansion of human intelligence using artificial methodology and technology Research scientists from the above three disciplines work together to explore

new concepts new theories and methodologies This book will introduce the concept and methodology of intelligence science systematically The whole book is divided into 18 chapters altogether It can be regarded as a textbook in courses of intelligence science cognitive science cognitive informatics etc for senior and graduate students It has important reference value for researchers engaged in fields such as intelligence science brain science cognitive science neural science artificial intelligence psychology and so on

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 **Quantum Computing: Physics, Blockchains, And Deep Learning Smart Networks** Melanie Swan, Renato P Dos Santos, Frank Witte, 2020-03-20 Quantum information and contemporary smart network domains are so large and complex as to be beyond the reach of current research approaches Hence new theories are needed for their understanding and control Physics is implicated as smart networks are physical systems comprised of particle many items interacting and reaching criticality and emergence across volumes of macroscopic and microscopic states Methods are integrated from statistical physics information theory and computer science Statistical neural field theory and the AdS CFT correspondence are employed to derive a smart network field theory SNFT and a smart network quantum field theory SNQFT for the orchestration of smart network systems Specifically a smart network field theory conventional or quantum is a field theory for the organization of particle many systems from a characterization control criticality and novelty emergence perspective This book provides insight as to how quantum information science as a paradigm shift in computing may influence other high impact digital transformation technologies such as blockchain and machine learning Smart networks refer to the idea that the internet is no longer simply a communications network but rather a computing platform The trajectory is that of communications networks becoming computing networks with self executing code and perhaps ultimately quantum computing networks Smart network technologies are conceived as autonomous self operating computing networks This includes blockchain economies deep learning neural networks autonomous supply chains self piloting driving fleets unmanned aerial vehicles industrial robotics cloudminds real time bidding for advertising high frequency trading networks smart city IoT sensors and the quantum internet

Validating Neuro-Computational Models of Neurological and Psychiatric Disorders Basabdatta Sen Bhattacharya, Fahmida N. Chowdhury, 2015-10-30 This book is a collection of articles by leading researchers working at the cutting edge of neuro computational modelling of neurological and psychiatric disorders Each article contains model validation techniques used in the context of the specific problem being studied Validation is essential for neuro inspired computational models to become useful tools in the understanding and treatment of disease conditions Currently the immense diversity in neuro computational modelling approaches for investigating brain diseases has created the need for a structured and coordinated approach to benchmark and standardise validation methods and techniques in this field of research This book serves as a step towards a systematic approach to validation of neuro computational models used

for studying brain diseases and should be useful for all neuro computational modellers *Dissipative Lattice Dynamical Systems* Xiaoying Han, Peter Kloeden, 2023-03-14 There is an extensive literature in the form of papers but no books on lattice dynamical systems The book focuses on dissipative lattice dynamical systems and their attractors of various forms such as autonomous nonautonomous and random The existence of such attractors is established by showing that the corresponding dynamical system has an appropriate kind of absorbing set and is asymptotically compact in some way There is now a very large literature on lattice dynamical systems especially on attractors of all kinds in such systems We cannot hope to do justice to all of them here Instead we have focused on key areas of representative types of lattice systems and various types of attractors Our selection is biased by our own interests in particular to those dealing with biological applications One of the important results is the approximation of Heaviside switching functions in LDS by sigmoidal functions Nevertheless we believe that this book will provide the reader with a solid introduction to the field its main results and the methods that are used to obtain them Principles of Computational Modelling in Neuroscience David Sterratt, Bruce Graham, Andrew Gillies, Gaute Einevoll, David Willshaw, 2023-10-05 Learn to use computational modelling techniques to understand the nervous system at all levels from ion channels to networks *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 Relational Methodologies and Epistemology in Economics and Management Sciences Biggiero, Lucio, 2016-01-18 The social sciences especially economics management and organizational science are experiencing a tremendous renewed interest for their epistemological and methodological statutes as witnessed by the many books and specialized journals established during the

last two decades Relational Methodologies and Epistemology in the Economics and Management Sciences identifies and presents the four main network based methodologies including network analysis Boolean network simulation modeling artificial neural network simulation modeling and agent based simulation modeling in addition to their conceptual epistemological implications and concrete applications within the social and natural sciences Featuring a critical assessment of relational methodologies and their practical applications this timely publication is ideal for use by corporate R D departments researchers theorists and graduate level students

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Neural Fields Theory And Applications Introduction

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