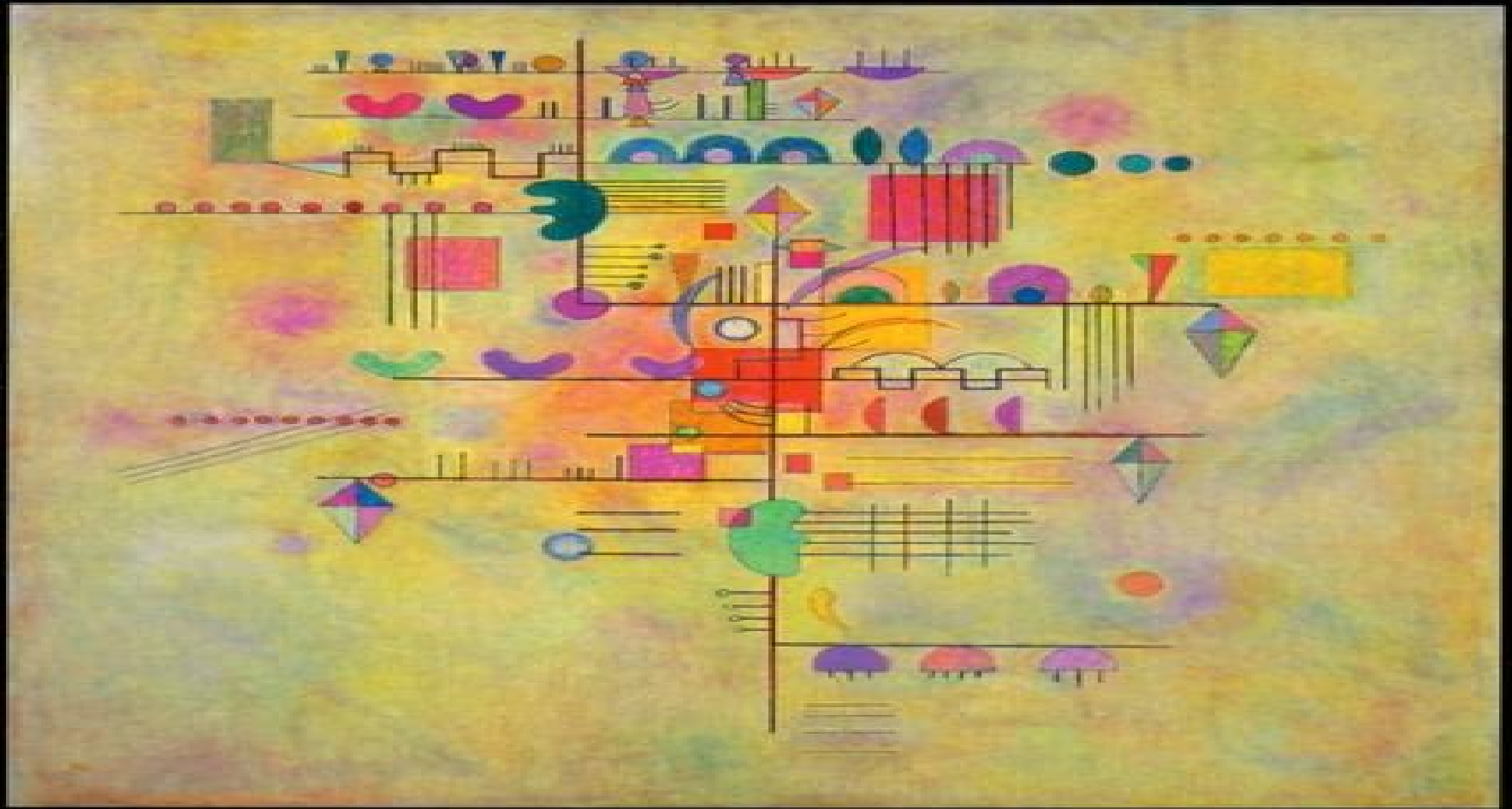


Biophysics of Computation

Information Processing in Single Neurons



Christof Koch

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Christof Koch



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Biophysics of Computation Christof Koch, 2004-10-28 Neural network research often builds on the fiction that neurons are simple linear threshold units completely neglecting the highly dynamic and complex nature of synapses dendrites and voltage dependent ionic currents Biophysics of Computation Information Processing in Single Neurons challenges this notion using richly detailed experimental and theoretical findings from cellular biophysics to explain the repertoire of computational functions available to single neurons The author shows how individual nerve cells can multiply integrate or delay synaptic inputs and how information can be encoded in the voltage across the membrane in the intracellular calcium concentration or in the timing of individual spikes Key topics covered include the linear cable equation cable theory as applied to passive dendritic trees and dendritic spines chemical and electrical synapses and how to treat them from a computational point of view nonlinear interactions of synaptic input in passive and active dendritic trees the Hodgkin Huxley model of action potential generation and propagation phase space analysis linking stochastic ionic channels to membrane dependent currents calcium and potassium currents and their role in information processing the role of diffusion buffering and binding of calcium and other messenger systems in information processing and storage short and long term models of synaptic plasticity simplified models of single cells stochastic aspects of neuronal firing the nature of the neuronal code and unconventional models of sub cellular computation Biophysics of Computation Information Processing in Single Neurons serves as an ideal text for advanced undergraduate and graduate courses in cellular biophysics computational neuroscience and neural networks and will appeal to students and professionals in neuroscience electrical and computer engineering and physics

Computational Neuroscience Eric L. Schwartz, 1993-08-26 The thirty original contributions in this book provide a working definition of computational neuroscience as the area in which problems lie simultaneously within computerscience and neuroscience They review this emerging field in historical and philosophical overviews and in stimulating summaries of recent results Leading researchers address the structure of the brain and the computational problems associated with describing and understanding this structure at the synaptic neural map and system levels The overview chapters discuss the early days of the field provide a philosophical analysis of the problems associated with confusion between brain metaphor and brain theory and take up the scope and structure of computational neuroscience Synaptic level structure is addressed in chapters that relate the properties of dendritic branches spines and synapses to the biophysics of computation and provide a connection between real neuron architectures and neural network simulations The network level chapters take up the preattentive perception of 3 D forms oscillation in neural networks the neurobiological significance of new learning models and the analysis of neural assemblies and local learning rules Map level structure is explored in chapters on the bat echolocation system cat orientation maps primate stereo vision cortical cognitive maps dynamic remapping in primate visual cortex and computer aided reconstruction of topographic and columnar maps in

primates The system level chapters focus on the oculomotor system VLSI models of early vision schemas for high level vision goal directed movements modular learning effects of applied electric current fields on cortical neural activity neuropsychological studies of brain and mind and an information theoretic view of analog representation in striate cortex Eric L Schwartz is Professor of Brain Research and Research Professor of Computer Science Courant Institute of Mathematical Sciences New York University Medical Center Computational Neuroscience is included in the System Development Foundation Benchmark Series Biophysics of Computation Christof Koch, 2004-10-28 Neural network research often builds on the fiction that neurons are simple linear threshold units completely neglecting the highly dynamic and complex nature of synapses dendrites and voltage dependent ionic currents Biophysics of Computation Information Processing in Single Neurons challenges this notion using richly detailed experimental and theoretical findings from cellular biophysics to explain the repertoire of computational functions available to single neurons The author shows how individual nerve cells can multiply integrate or delay synaptic inputs and how information can be encoded in the voltage across the membrane in the intracellular calcium concentration or in the timing of individual spikes Key topics covered include the linear cable equation cable theory as applied to passive dendritic trees and dendritic spines chemical and electrical synapses and how to treat them from a computational point of view nonlinear interactions of synaptic input in passive and active dendritic trees the Hodgkin Huxley model of action potential generation and propagation phase space analysis linking stochastic ionic channels to membrane dependent currents calcium and potassium currents and their role in information processing the role of diffusion buffering and binding of calcium and other messenger systems in information processing and storage short and long term models of synaptic plasticity simplified models of single cells stochastic aspects of neuronal firing the nature of the neuronal code and unconventional models of sub cellular computation Biophysics of Computation Information Processing in Single Neurons serves as an ideal text for advanced undergraduate and graduate courses in cellular biophysics computational neuroscience and neural networks and will appeal to students and professionals in neuroscience electrical and computer engineering and physics Advances in Neuro-Information Processing Mario Köppen, Nikola Kasabov, George Coghill, 2009-07-10 The two volume set LNCS 5506 and LNCS 5507 constitutes the thoroughly refereed post conference proceedings of the 15th International Conference on Neural Information Processing ICONIP 2008 held in Auckland New Zealand in November 2008 The 260 revised full papers presented were carefully reviewed and selected from numerous ordinary paper submissions and 15 special organized sessions 116 papers are published in the first volume and 112 in the second volume The contributions deal with topics in the areas of data mining methods for cybersecurity computational models and their applications to machine learning and pattern recognition lifelong incremental learning for intelligent systems application of intelligent methods in ecological informatics pattern recognition from real world information by svm and other sophisticated techniques dynamics of neural networks recent advances in brain inspired technologies for robotics

neural information processing in cooperative multi robot systems **An Introduction to Neural Information Processing** Peiji Liang, Si Wu, Fanji Gu, 2015-12-22 This book provides an overview of neural information processing research which is one of the most important branches of neuroscience today Neural information processing is an interdisciplinary subject and the merging interaction between neuroscience and mathematics physics as well as information science plays a key role in the development of this field This book begins with the anatomy of the central nervous system followed by an introduction to various information processing models at different levels The authors all have extensive experience in mathematics physics and biomedical engineering and have worked in this multidisciplinary area for a number of years They present classical examples of how the pioneers in this field used theoretical analysis mathematical modeling and computer simulation to solve neurobiological problems and share their experiences and lessons learned The book is intended for researchers and students with a mathematics physics or informatics background who are interested in brain research and keen to understand the necessary neurobiology and how they can use their specialties to address neurobiological problems It also provides inspiration for neuroscience students who are interested in learning how to use mathematics physics or informatics approaches to solve problems in their field **Pulsed Neural Networks** Wolfgang Maass, Christopher M. Bishop, 2001-01-26 Most practical applications of artificial neural networks are based on a computational model involving the propagation of continuous variables from one processing unit to the next In recent years data from neurobiological experiments have made it increasingly clear that biological neural networks which communicate through pulses use the timing of the pulses to transmit information and perform computation This realization has stimulated significant research on pulsed neural networks including theoretical analyses and model development neurobiological modeling and hardware implementation This book presents the complete spectrum of current research in pulsed neural networks and includes the most important work from many of the key scientists in the field Terrence J Sejnowski's foreword Neural Pulse Coding presents an overview of the topic The first half of the book consists of longer tutorial articles spanning neurobiology theory algorithms and hardware The second half contains a larger number of shorter research chapters that present more advanced concepts The contributors use consistent notation and terminology throughout the book Contributors Peter S Burge Stephen R Deiss Rodney J Douglas John G Elias Wulfram Gerstner Alister Hamilton David Horn Axel Jahnke Richard Kempter Wolfgang Maass Alessandro Mortara Alan F Murray David P M Northmore Irit Opher Kostas A Papathanasiou Michael Recce Barry J P Rising Ulrich Roth Tim Sch nauer Terrence J Sejnowski John Shawe Taylor Max R van Daalen J Leo van Hemmen Philippe Venier Hermann Wagner Adrian M Whatley Anthony M Zador *Computational Models of Brain and Behavior* Ahmed A. Moustafa, 2017-09-11 A comprehensive Introduction to the world of brain and behavior computational models This book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience Specifically it discusses models that span different brain regions hippocampus amygdala basal ganglia visual

cortex different species humans rats fruit flies and different modeling methods neural network Bayesian reinforcement learning data fitting and Hodgkin Huxley models among others Computational Models of Brain and Behavior is divided into four sections a Models of brain disorders b Neural models of behavioral processes c Models of neural processes brain regions and neurotransmitters and d Neural modeling approaches It provides in depth coverage of models of psychiatric disorders including depression posttraumatic stress disorder PTSD schizophrenia and dyslexia models of neurological disorders including Alzheimer s disease Parkinson s disease and epilepsy early sensory and perceptual processes models of olfaction higher systems level models and low level models Pavlovian and instrumental conditioning linking information theory to neurobiology and more Covers computational approximations to intellectual disability in down syndrome Discusses computational models of pharmacological and immunological treatment in Alzheimer s disease Examines neural circuit models of serotonergic system from microcircuits to cognition Educates on information theory memory prediction and timing in associative learning Computational Models of Brain and Behavior is written for advanced undergraduate Master s and PhD level students as well as researchers involved in computational neuroscience modeling research

Eighth International Work-Conference on Artificial and Natural Neural Networks Joan Cabestany, 2005-05-30 We present in this volume the collection of finally accepted papers of the eighth edition of the IWANN conference International Work Conference on Artificial Neural Networks This biennial meeting focuses on the foundations theory models and applications of systems inspired by nature neural networks fuzzy logic and evolutionary systems Since the first edition of IWANN in Granada LNCS 540 1991 the Artificial Neural Network ANN community and the domain itself have matured and evolved Under the ANN banner we find a very heterogeneous scenario with a main interest and objective to better understand nature and beings for the correct elaboration of theories models and new algorithms For scientists engineers and professionals working in the area this is a very good way to get solid and competitive applications We are facing a real revolution with the emergence of embedded intelligence in many artificial systems systems covering diverse fields industry domotics leisure healthcare So we are convinced that an enormous amount of work must be and should be still done Many pieces of the puzzle must be built and placed into their proper positions offering us new and solid theories and models necessary tools for the application and praxis of these current paradigms The above mentioned concepts were the main reason for the subtitle of the IWANN 2005 edition Computational Intelligence and Bioinspired Systems The call for papers was launched several months ago addressing the following topics 1 Mathematical and theoretical methods in computational intelligence

The Ecological Brain Luis H. Favela, 2023-12-22 The Ecological Brain is the first book of its kind using complexity science to integrate the seemingly disparate fields of ecological psychology and neuroscience The book develops a unique framework for unifying investigations and explanations of mind that span brain body and environment the NeuroEcological Nexus Theory NExT Beginning with an introduction to the history of the fields the author provides an assessment of why ecological psychology and neuroscience are

commonly viewed as irreconcilable methods for investigating and explaining cognition intelligent behavior and the systems that realize them The book then progresses to its central aim presenting a unified investigative and explanatory framework offering concepts methods and theories applicable across neural and ecological scales of investigation By combining the core principles of ecological psychology neural population dynamics and synergetics under a unified complexity science approach NExT offers a compressive investigative framework to explain and understand neural bodily and environmental contributions to perception action and other forms of intelligent behavior and thought The book progresses the conversation around the role of brains in ecological psychology as well as bodies and environments in neuroscience It is essential reading for all students of ecological psychology perception cognitive sciences and neuroscience as well as anyone interested in the history and philosophy of the brain mind sciences and their state of the art methods and theories

Emerging Intelligent Computing Technology and Applications. With Aspects of Artificial Intelligence De-Shuang Huang, Kang-Hyun Jo, Hong-Hee Lee, Hee-Jun Kang, Vitoantonio Bevilacqua, 2009-09-19 The International Conference on Intelligent Computing ICIC was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence machine learning bioinformatics and computational biology etc It aims to bring gether researchers and practitioners from both academia and industry to share ideas problems and solutions related to the multifaceted aspects of intelligent computing ICIC 2009 held in Ulsan Korea September 16 19 2009 constituted the 5th ernational Conference on Intelligent Computing It built upon the success of ICIC 2008 ICIC 2007 ICIC 2006 and ICIC 2005 held in Shanghai Qingdao Kunming and Hefei China 2008 2007 2006 and 2005 respectively This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the p ture of contemporary intelligent computing techniques as an integral concept that hi lights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Emerging Intelligent Computing Technology and Applications Papers focusing on this theme were solicited addressing theories methodologies and applications in science and technology

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