

Models for Neural Spike Computation and Cognition

David H. Staelin and Carl H. Staelin

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Models For Neural Spike Computation And Cognition

Casimir C. Klimasauskas

Models For Neural Spike Computation And Cognition:

Models for Neural Spike Computation and Cognition David H. Staelin, Carl H. Staelin, 2011-10-25 This monograph addresses the intertwined mathematical neurological and cognitive mysteries of the brain. It first evaluates the mathematical performance limits of simple spiking neuron models that both learn and later recognize complex spike excitation patterns in less than one second without using training signals unique to each pattern. Simulations validate these models while theoretical expressions validate their simpler performance parameters. These single neuron models are then qualitatively related to the training and performance of multi layer neural networks that may have significant feedback. The advantages of feedback are then qualitatively explained and related to a model for cognition. This model is then compared to observed mild hallucinations that arguably include accelerated time reversed video memories. The learning mechanism for these binary threshold firing cognon neurons is spike timing dependent plasticity STDP that depends only on whether the spike excitation pattern presented to a given single learning ready neuron within a period of milliseconds causes that neuron to fire or spike. The false alarm probability that a trained neuron will fire for a random unlearned pattern can be made almost arbitrarily low by reducing the number of patterns learned by each neuron. Models that use and that do not use spike timing within patterns are evaluated. A Shannon mutual information metric recoverable bits neuron is derived for binary neuron models that are characterized only by their probability of learning a random input excitation pattern presented to that neuron during learning readiness and by their false alarm probability for random unlearned patterns. Based on simulations the upper bounds to recoverable information are 0.1 bits per neuron for optimized neuron parameters and training. This information metric assumes that 1 each neural spike indicates only that the responsible neuron input excitation pattern a pattern lasts less than the time between consecutive patterns say 30 milliseconds had probably been seen earlier while that neuron was learning ready and 2 information is stored in the binary synapse strengths. This focus on recallable learned information differs from most prior metrics such as pattern classification performance and metrics relying on pattern specific training signals other than the normal input spikes. This metric also shows that neuron models can recall useful Shannon information only if their probability of firing randomly is lowered between learning and recall. Also discussed are 1 how rich feedback might permit improved noise immunity learning and recognition of pattern sequences compression of data associative or content addressable memory and development of communications links through white matter 2 extensions of cognon models that use spike timing dendrite compartments and new learning mechanisms in addition to spike timing dependent plasticity STDP 3 simulations that show how simple optimized neuron models can have optimum numbers of binary synapses in the range between 200 and 10 000 depending on neural parameters and 4 simulation results for parameters like the average bits spike bits neuron second maximum number of learnable patterns optimum ratios between the strengths of weak and strong synapses and probabilities of false alarms.

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 **Artificial Neural Networks as Models of Neural Information Processing** Marcel van Gerven,Sander Bohte,2018-02-01 Modern neural networks gave rise to major breakthroughs in several research areas In neuroscience we are witnessing a reappraisal of neural network theory and its relevance for understanding information processing in biological systems The research presented in this book provides various perspectives on the use of artificial neural networks as models of neural information processing We consider the biological plausibility of neural networks performance improvements spiking neural networks and the use of neural networks for understanding brain function

Computational Medicine in Data Mining and Modeling Goran Rakocevic,Tijana Djukic,Nenad Filipovic,Veljko Milutinović,2013-10-17 This book presents an overview of a variety of contemporary statistical mathematical and computer science techniques which are used to further the knowledge in the medical domain The authors focus on applying data mining to the medical domain including mining the sets of clinical data typically found in patient s medical records image mining medical mining data mining and machine learning applied to generic genomic data and more This work also introduces modeling behavior of cancer cells multi scale computational models and simulations of blood flow through vessels by using patient specific models The authors cover different imaging techniques used to generate patient specific models This is used in computational fluid dynamics software to analyze fluid flow Case studies are provided at the end of each chapter Professionals and researchers with quantitative backgrounds will find Computational Medicine in Data Mining and Modeling useful as a reference Advanced level students studying computer science mathematics statistics and biomedicine will also find this book valuable as a reference or secondary text book **The Oxford Handbook of Cognitive Engineering** John D. Lee,Alex Kirlik,M. J. Dainoff,2013-03-07 This handbook is the first to provide comprehensive coverage of original state of the science research analysis and design of integrated human technology systems **Emerging Technologies in Computational Cognitive Neuroscience** ,2025-10-01 Computational cognitive neuroscience examines the evolving relationship between brain research and artificial intelligence It provides a comprehensive understanding of how computer models can simulate and explain complex mental processes This book examines basic cognitive functions including vision attention memory language and decision making through the lens of biologically inspired neural networks The book emphasizes the importance of utilizing neuroscience based models grounded in evidence to bridge the gap between theory and practice It also discusses current issues such as the complexity of models and their relationship to biology while illustrating how the

discipline may influence our understanding of both healthy and unhealthy brains This book is a valuable resource for anyone seeking to learn more about the science of the mind and the future of intelligent systems It was written for researchers students and professionals Neural Mechanisms for Control in Complex Cognition Patrick A. Simen,2004 **New**

Handbook of Mathematical Psychology: Volume 2, Modeling and Measurement William H. Batchelder,Hans

Colonius,Ehtibar N. Dzhafarov,2018-09-27 The field of mathematical psychology began in the 1950s and includes both psychological theorizing in which mathematics plays a key role and applied mathematics motivated by substantive problems in psychology Central to its success was the publication of the first Handbook of Mathematical Psychology in the 1960s The psychological sciences have since expanded to include new areas of research and significant advances have been made in both traditional psychological domains and in the applications of the computational sciences to psychology Upholding the rigor of the original Handbook the New Handbook of Mathematical Psychology reflects the current state of the field by exploring the mathematical and computational foundations of new developments over the last half century The second volume focuses on areas of mathematics that are used in constructing models of cognitive phenomena and decision making and on the role of measurement in psychology **Encyclopedia of Cognitive Science: Mental models** Lynn Nadel,2003

At the core of this encyclopedia are approximately 700 original signed articles written and peer reviewed by the world's leading experts in their various specialized areas of the cognitive sciences **Neural Computation** ,2006 *International Encyclopedia of the Social & Behavioral Sciences* Neil J. Smelser,Paul B. Baltes,2001 The largest work ever published in the social and behavioural sciences It contains 4000 signed articles 15 million words of text 90 000 bibliographic references and 150 biographical entries **Handbook of Neural Computing Applications** Alianna J. Maren,Craig T. Harston,Robert M.

Pap,1990 Computing Methodologies Artificial Intelligence *Artificial Neural Networks* K. Mäkisara,O. Simula,J. Kangas,T. Kohonen,1991-06-20 This two volume proceedings compiles a selection of research papers presented at the ICANN 91 The scope of the volumes is interdisciplinary ranging from mathematics and engineering to cognitive sciences and biology

European research is well represented Volume 1 contains all the orally presented papers including both invited talks and submitted papers Volume 2 contains the plenary talks and the poster presentations *Neural Computing Research and Applications, Proceedings of the Second Irish Neural Networks Conference, Queen's University, Belfast, Northern Ireland, 25-26 June 1992* Gerry A. Orchard,1993-06 The results of current research in a truly wide range of disciplines are detailed in over thirty papers in this volume The first section includes research on biological and psychological issues together with recent results on the design of neural network architectures and algorithms important for further advances in neural network modelling Those in the second section provide an account of the wide range of applications for neural nets in industry commerce medical diagnosis and psychological modelling and indicate where future opportunities for their applications exist This volume will provide a valuable reference source for researchers in the field **The 1989 Neuro-computing**

Bibliography Casimir C. Klimasauskas,1989 This comprehensive bibliography provides a functional flexible tool for researchers and engineers in neurocomputing **Vygotsky and Cognitive Science** William Frawley,1997 Is a human being a person or a machine Is the mind a social construction or a formal device It is both William Frawley tells us and by bringing together Vygotsky's sociocultural theory of the mind and cognitive science's computational model he shows us how this not only can but must be To do so Frawley focuses on language particularly on how the computational mind uses language to mediate the internal and the external during thought By reconciling the linguistic device and the linguistic person he argues for a Vygotskyan cognitive science Frawley begins by exploding the internalist externalist dichotomy that presently drives cognitive science and falsely pits computationalism against socioculturalism He replaces the reigning Platonic paradigm of computational mind science with a framework based on an unusual unified account of Wittgenstein thus setting the stage for a Vygotskyan cognitive science centered on three aspects of mind subjectivity real time operation and breakdown In this context he demonstrates how computational psychology accommodates a critical aspect of Vygotskyan theory private speech as the mind's metacomputational regulator An examination of certain congenital disorders such as Williams Syndrome Turner Syndrome and autism that disrupt speech further clarifies the issue of computational and cognitive control *Integrative and Molecular Approach to Brain Function* Masao Itō,Yasushi Miyashita,1996 Hardbound The present advancement in the brain is characterized by the dichotomy of the molecular approaches to cellular functions in the brain and integrative approaches to the mechanisms of brain functions This book contains the proceedings of the Uehera Foundation Symposium held in 1996 in Tokyo which aimed to synthesize the two lines of approaches The major research strategy employed at the molecular and cellular levels is to pinpoint a molecule a set of them a microstructure which is responsible for a cellular function That undertaken at integrative and functional levels is to comprehend the mechanisms which underlie a system function of the brain These two strategies will be mutually beneficial and the need to combine them in brain science will become increasingly important This monograph thus helps envision the future of brain science and is of great interest to researchers graduate and undergraduate students who want to know the cur **The Sapient Mind** Colin Renfrew,Kathleen E. Ruckstuhl,Yadvinder Malhi,Edward Arnold Johnson,Richard A. Betts,J. Timmons Roberts,Kiyoko Miyanishi,Lambros Malafouris,2008 *Encyclopedia of Cognitive Science, 4 Volume Set* Lynn Nadel,2005-09-23 An exciting reference work which captures current thinking about the workings of the mind and brain focusing on problems that are as old as recorded history but reflecting new approaches and techniques that have emerged since the 1980's The Encyclopedia contains 696 articles covering in depth the entire spectrum of the cognitive sciences Reviewing the common themes of information and information processing representation and computation it also covers in depth the core areas of psychology philosophy linguistics computer science and neuroscience Ancillary topics such as education economics evolutionary biology and anthropology are also covered The articles have been written to provide multiple levels of information so that readers

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