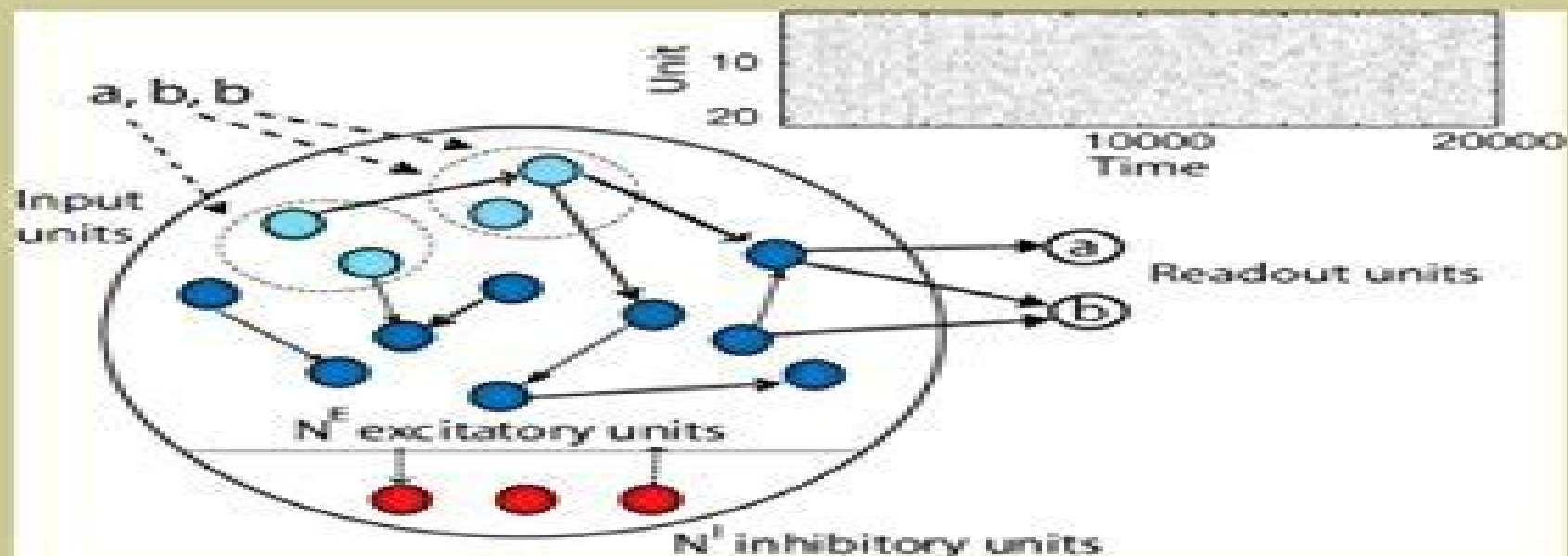


SORN



A Self-Organizing
Recurrent Neural Network

Sorn A Self Organizing Recurrent Neural Network

**Wolf Singer, Terrence J.
Sejnowski, Pasko Rakic**



Sorn A Self Organizing Recurrent Neural Network:

Emergent neural computation from the interaction of different forms of plasticity Cristina Savin, Matthieu Gilson, Friedemann Zenke, 2016-03-22 From the propagation of neural activity through synapses to the integration of signals in the dendritic arbor and the processes determining action potential generation virtually all aspects of neural processing are plastic This plasticity underlies the remarkable versatility and robustness of cortical circuits it enables the brain to learn regularities in its sensory inputs to remember the past and to recover function after injury While much of the research into learning and memory has focused on forms of Hebbian plasticity at excitatory synapses LTD LTP STDP several other plasticity mechanisms have been characterized experimentally including the plasticity of inhibitory circuits Kullmann 2012 synaptic scaling Turrigiano 2011 and intrinsic plasticity Zhang and Linden 2003 However our current understanding of the computational roles of these plasticity mechanisms remains rudimentary at best While traditionally they are assumed to serve a homeostatic purpose counterbalancing the destabilizing effects of Hebbian learning recent work suggests that they can have a profound impact on circuit function Savin 2010 Vogels 2011 Keck 2012 Hence theoretical investigation into the functional implications of these mechanisms may shed new light on the computational principles at work in neural circuits This Research Topic of Frontiers in Computational Neuroscience aims to bring together recent advances in theoretical modeling of different plasticity mechanisms and of their contributions to circuit function Topics of interest include the computational roles of plasticity of inhibitory circuitry metaplasticity synaptic scaling intrinsic plasticity plasticity within the dendritic arbor and in particular studies on the interplay between homeostatic and Hebbian plasticity and their joint contribution to network function *The Functional Role of Critical Dynamics in Neural Systems* Nergis Tomen, J. Michael Herrmann, Udo Ernst, 2019-07-23 This book offers a timely overview of theories and methods developed by an authoritative group of researchers to understand the link between criticality and brain functioning Cortical information processing in particular and brain function in general rely heavily on the collective dynamics of neurons and networks distributed over many brain areas A key concept for characterizing and understanding brain dynamics is the idea that networks operate near a critical state which offers several potential benefits for computation and information processing However there is still a large gap between research on criticality and understanding brain function For example cortical networks are not homogeneous but highly structured they are not in a state of spontaneous activation but strongly driven by changing external stimuli and they process information with respect to behavioral goals So far the questions relating to how critical dynamics may support computation in this complex setting and whether they can outperform other information processing schemes remain open Based on the workshop Dynamical Network States Criticality and Cortical Function held in March 2017 at the Hanse Institute for Advanced Studies HWK in Delmenhorst Germany the book provides readers with extensive information on these topics as well as tools and ideas to answer the above mentioned questions It is meant for physicists computational and

systems neuroscientists and biologists **Advances in Neural Networks -- ISSN 2011** Derong Liu, Huaguang Zhang, Marios Polycarpou, Cesare Alippi, Haibo He, 2011-05-20 The three volume set LNCS 6675 6676 and 6677 constitutes the refereed proceedings of the 8th International Symposium on Neural Networks ISSN 2011 held in Guilin China in May June 2011 The total of 215 papers presented in all three volumes were carefully reviewed and selected from 651 submissions The contributions are structured in topical sections on computational neuroscience and cognitive science neurodynamics and complex systems stability and convergence analysis neural network models supervised learning and unsupervised learning kernel methods and support vector machines mixture models and clustering visual perception and pattern recognition motion tracking and object recognition natural scene analysis and speech recognition neuromorphic hardware fuzzy neural networks and robotics multi agent systems and adaptive dynamic programming reinforcement learning and decision making action and motor control adaptive and hybrid intelligent systems neuroinformatics and bioinformatics information retrieval data mining and knowledge discovery and natural language processing *Artificial Neural Networks and Machine Learning - ICANN 2011* Timo Honkela, Włodzisław Duch, Mark Girolami, Samuel Kaski, 2011-06-14 This two volume set LNCS 6791 and LNCS 6792 constitutes the refereed proceedings of the 21th International Conference on Artificial Neural Networks ICANN 2011 held in Espoo Finland in June 2011 The 106 revised full or poster papers presented were carefully reviewed and selected from numerous submissions ICANN 2011 had two basic tracks brain inspired computing and machine learning research with strong cross disciplinary interactions and applications Neuromorphic Solutions for Sensor Fusion and Continual Learning Systems Ali Safa, Lars Keuninckx, Georges Gielen, Francky Catthoor, 2024-07-17 This book provides novel theoretical foundations and experimental demonstrations of Spiking Neural Networks SNNs in tasks such as radar gesture recognition for IoT devices and autonomous drone navigation using a fusion of retina inspired event based camera and radar sensing The authors describe important new findings about the Spike Timing Dependent Plasticity STDP learning rule which is widely believed to be one of the key learning mechanisms taking place in the brain Readers will be enabled to create novel classes of edge AI and robotics applications using highly energy and area efficient SNNs *Handbook of Memristor Networks* Leon Chua, Georgios Ch. Sirakoulis, Andrew Adamatzky, 2019-11-12 This Handbook presents all aspects of memristor networks in an easy to read and tutorial style Including many colour illustrations it covers the foundations of memristor theory and applications the technology of memristive devices revised models of the Hodgkin Huxley Equations and ion channels neuromorphic architectures and analyses of the dynamic behaviour of memristive networks It also shows how to realise computing devices non von Neumann architectures and provides future building blocks for deep learning hardware With contributions from leaders in computer science mathematics electronics physics material science and engineering the book offers an indispensable source of information and an inspiring reference text for future generations of computer scientists mathematicians physicists material scientists and engineers working in this dynamic field Spike-timing dependent

plasticity Henry Markram, Wulfram Gerstner, Per Jesper Sjöström, Hebb's postulate provided a crucial framework to understand synaptic alterations underlying learning and memory. Hebb's theory proposed that neurons that fire together also wire together, which provided the logical framework for the strengthening of synapses. Weakening of synapses was however addressed by not being strengthened, and it was only later that the active decrease of synaptic strength was introduced through the discovery of long-term depression caused by low-frequency stimulation of the presynaptic neuron. In 1994, it was found that the precise relative timing of pre and postsynaptic spikes determined not only the magnitude but also the direction of synaptic alterations when two neurons are active together. Neurons that fire together may therefore not necessarily wire together if the precise timing of the spikes involved are not tightly correlated. In the subsequent 15 years, Spike Timing Dependent Plasticity (STDP) has been found in multiple brain regions and in many different species. The size and shape of the time windows in which positive and negative changes can be made vary for different brain regions, but the core principle of spike timing dependent changes remains. A large number of theoretical studies have also been conducted during this period that explore the computational function of this driving principle, and STDP algorithms have become the main learning algorithm when modeling neural networks. This Research Topic will bring together all the key experimental and theoretical research on STDP.

Robotics, AI, and Humanity

Joachim von Braun, Margaret S. Archer, Gregory M. Reichberg, Marcelo Sánchez Sorondo, 2021-02-12. This open access book examines recent advances in how artificial intelligence (AI) and robotics have elicited widespread debate over their benefits and drawbacks for humanity. The emergent technologies have, for instance, implications within medicine and health care, employment, transport, manufacturing, agriculture, and armed conflict. While there has been considerable attention devoted to robotics/AI applications in each of these domains, a fuller picture of their connections and the possible consequences for our shared humanity seems needed. This volume covers multidisciplinary research, examines current research frontiers in AI/robotics, and likely impacts on societal well-being, human-robot relationships, as well as the opportunities and risks for sustainable development and peace. The attendant ethical and religious dimensions of these technologies are addressed, and implications for regulatory policies on the use and future development of AI/robotics technologies are elaborated.

The Role of Synaptic Tagging and Capture for Memory Dynamics in Spiking Neural Networks

Jannik Luboeinski, 2021-09-02. Memory serves to process and store information about experiences such that this information can be used in future situations. The transfer from transient storage into long-term memory, which retains information for hours, days, and even years, is called consolidation. In brains, information is primarily stored via alteration of synapses, so-called synaptic plasticity. While these changes are at first in a transient early phase, they can be transferred to a late phase, meaning that they become stabilized over the course of several hours. This stabilization has been explained by so-called synaptic tagging and capture (STC) mechanisms. To store and recall memory representations, emergent dynamics arise from the synaptic structure of recurrent networks of neurons. This happens through so-called cell

assemblies which feature particularly strong synapses It has been proposed that the stabilization of such cell assemblies by STC corresponds to so called synaptic consolidation which is observed in humans and other animals in the first hours after acquiring a new memory The exact connection between the physiological mechanisms of STC and memory consolidation remains however unclear It is equally unknown which influence STC mechanisms exert on further cognitive functions that guide behavior On timescales of minutes to hours that means the timescales of STC such functions include memory improvement modification of memories interference and enhancement of similar memories and transient priming of certain memories Thus diverse memory dynamics may be linked to STC which can be investigated by employing theoretical methods based on experimental data from the neuronal and the behavioral level In this thesis we present a theoretical model of STC based memory consolidation in recurrent networks of spiking neurons which are particularly suited to reproduce biologically realistic dynamics Furthermore we combine the STC mechanisms with calcium dynamics which have been found to guide the major processes of early phase synaptic plasticity in vivo In three included research articles as well as additional sections we develop this model and investigate how it can account for a variety of behavioral effects We find that the model enables the robust implementation of the cognitive memory functions mentioned above The main steps to this are 1 demonstrating the formation consolidation and improvement of memories represented by cell assemblies 2 showing that neuromodulator dependent STC can retroactively control whether information is stored in a temporal or rate based neural code and 3 examining interaction of multiple cell assemblies with transient and attractor dynamics in different organizational paradigms In summary we demonstrate several ways by which STC controls the late phase synaptic structure of cell assemblies Linking these structures to functional dynamics we show that our STC based model implements functionality that can be related to long term memory Thereby we provide a basis for the mechanistic explanation of various neuropsychological effects

Keywords synaptic plasticity synaptic tagging and capture spiking recurrent neural networks memory consolidation long term memory

The Neocortex Wolf Singer, Terrence J. Sejnowski, Pasko Rakic, 2019-10-29 Experts review the latest research on the neocortex and consider potential directions for future research Over the past decade technological advances have dramatically increased information on the structural and functional organization of the brain especially the cerebral cortex This explosion of data has radically expanded our ability to characterize neural circuits and intervene at increasingly higher resolutions but it is unclear how this has informed our understanding of underlying mechanisms and processes In search of a conceptual framework to guide future research leading researchers address in this volume the evolution and ontogenetic development of cortical structures the cortical connectome and functional properties of neuronal circuits and populations They explore what constitutes uniquely human mental capacities and whether neural solutions and computations can be shared across species or repurposed for potentially uniquely human capacities Contributors Danielle S Bassett Randy M Bruno Elizabeth A Buffalo Michael E Coulter Hermann Cuntz Stanislas Dehaene James J DiCarlo Pascal Fries Karl J Friston

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Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Sorn A Self Organizing Recurrent Neural Network**

In a world inundated with monitors and the cacophony of immediate transmission, the profound energy and emotional resonance of verbal artistry often disappear in to obscurity, eclipsed by the regular barrage of sound and distractions. Yet, set within the lyrical pages of **Sorn A Self Organizing Recurrent Neural Network**, a fascinating perform of fictional splendor that pulses with organic emotions, lies an memorable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that magical opus manuals visitors on an emotional odyssey, lightly revealing the latent possible and profound influence stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is main subjects, dissect its charming writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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