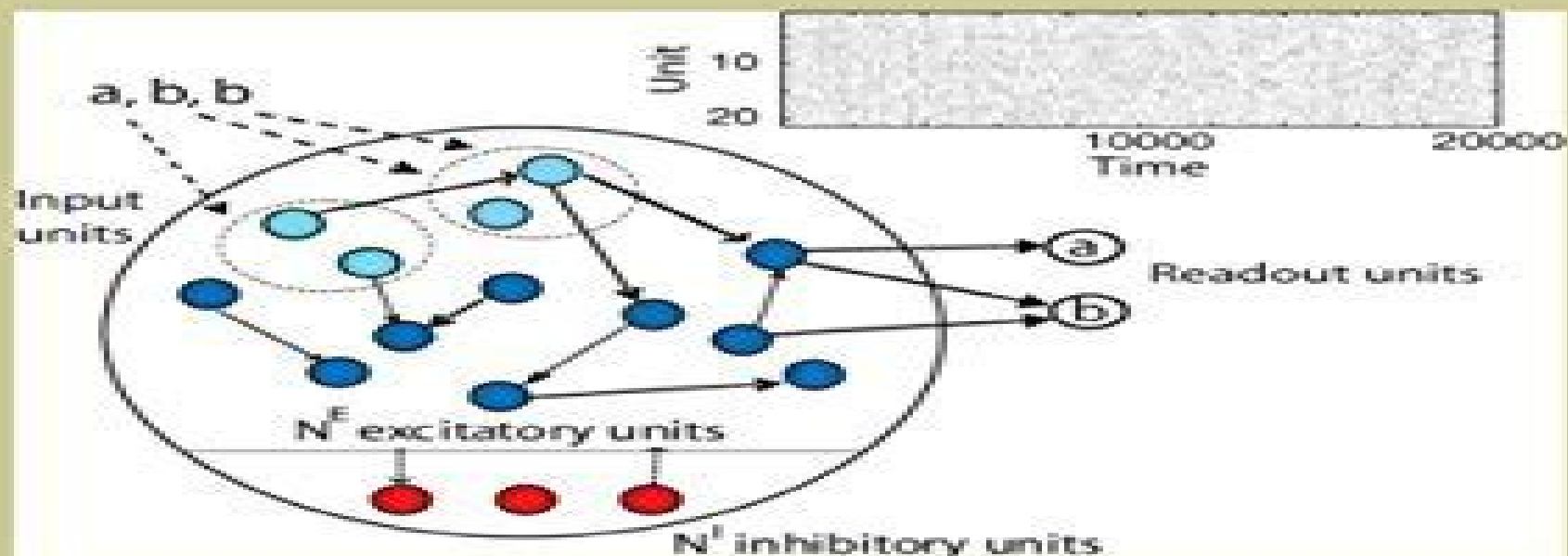


SORN



A Self-Organizing
Recurrent Neural Network

Sorn A Self Organizing Recurrent Neural Network

Harald Maurer



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 **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 Rewiring Brain** Arjen van Ooyen, Markus Butz-Ostendorf, 2017-06-23 The adult brain is not as hard wired as traditionally thought By modifying their small or large scale morphology neurons can make new synaptic connections or break existing ones structural plasticity Structural changes accompany memory formation and learning and are induced by neurogenesis neurodegeneration and brain injury such as stroke Exploring the role of structural plasticity in the brain can be greatly assisted by mathematical and computational models as they enable us to bridge the gap between system level dynamics and lower level cellular and molecular processes However most traditional neural network models have fixed neuronal morphologies and a static connectivity pattern with plasticity merely arising from changes in the strength of existing synapses synaptic plasticity In The Rewiring Brain the editors bring together for the first time contemporary modeling studies that investigate the implications of structural plasticity for brain function and pathology Starting with an experimental background on structural plasticity in the adult brain the book covers computational studies on homeostatic structural plasticity the impact of structural plasticity on cognition and cortical connectivity the interaction

between synaptic and structural plasticity neurogenesis related structural plasticity and structural plasticity in neurological disorders Structural plasticity adds a whole new dimension to brain plasticity and The Rewiring Brain shows how computational approaches may help to gain a better understanding of the full adaptive potential of the adult brain The book is written for both computational and experimental neuroscientists Reviews the current state of knowledge of structural plasticity in the adult brain Gives a comprehensive overview of computational studies on structural plasticity Provides insights into the potential driving forces of structural plasticity and the functional implications of structural plasticity for learning and memory Serves as inspiration for developing novel treatment strategies for stimulating functional repair after brain damage

Self-organizing Recurrent Neural Networks Andreea Lazar,2009 **Self-Organizing Neural Networks** Udo Seiffert,2001-09-25 The Self Organizing Map SOM is one of the most frequently used architectures for unsupervised artificial neural networks Introduced by Teuvo Kohonen in the 1980s SOMs have been developed as a very powerful method for visualization and unsupervised classification tasks by an active and innovative community of international researchers A number of extensions and modifications have been developed during the last two decades The reason is surely not that the original algorithm was imperfect or inadequate It is rather the universal applicability and easy handling of the SOM Compared to many other network paradigms only a few parameters need to be arranged and thus also for a beginner the network leads to useful and reliable results Nevertheless there is scope for improvements and sophisticated new developments as this book impressively demonstrates The number of published applications utilizing the SOM appears to be unending As the title of this book indicates the reader will benefit from some of the latest theoretical developments and will become acquainted with a number of challenging real world applications Our aim in producing this book has been to provide an up to date treatment of the field of self organizing neural networks which will be accessible to researchers practitioners and graduated students from diverse disciplines in academics and industry We are very grateful to the father of the SOMs Professor Teuvo Kohonen for supporting this book and contributing the first chapter Where's the Noise? Key Features of Neuronal Variability and Inference Emerge from Self-organized Learning Christoph Hartmann,Andreea Lazar,Jochen Triesch,2014 **Pattern Recognition by Self-organizing Neural Networks** Gail A. Carpenter,Stephen Grossberg,1991 Pattern Recognition by Self Organizing Neural Networks presents the most recent advances in an area of research that is becoming vitally important in the fields of cognitive science neuroscience artificial intelligence and neural networks in general The 19 articles take up developments in competitive learning and computational maps adaptive resonance theory and specialized architectures and biological connections Introductory survey articles provide a framework for understanding the many models involved in various approaches to studying neural networks These are followed in Part 2 by articles that form the foundation for models of competitive learning and computational mapping and recent articles by Kohonen applying them to problems in speech recognition and by Hecht Nielsen applying them to problems in

designing adaptive lookup tables Articles in Part 3 focus on adaptive resonance theory ART networks selforganizing pattern recognition systems whose top down template feedback signals guarantee their stable learning in response to arbitrary sequences of input patterns In Part 4 articles describe embedding ART modules into larger architectures and provide experimental evidence from neurophysiology event related potentials and psychology that support the prediction that ART mechanisms exist in the brain Contributors J P Banquet G A Carpenter S Grossberg R Hecht Nielsen T Kohonen B Kosko T W Ryan N A Schmajuk W Singer D Stork C von der Malsburg C L Winter *Self-organization of Temporal Dynamics in Recurrent Neural Networks*, 2016 Structure, Dynamics and Self-organization in Recurrent Neural Networks Pau Vilimelis Aceituno, 2020 **Self-Organizing Neural Networks** Udo Seiffert, 2014-09-01 Self-Organising Neural Networks Mark Girolami, 1999-06-25 This volume presents the theory and applications of self organising neural network models which perform the Independent Component Analysis ICA transformation and Blind Source Separation BSS It is largely self contained covering the fundamental concepts of information theory higher order statistics and information geometry Neural models for instantaneous and temporal BSS and their adaptation algorithms are presented and studied in detail There is also in depth coverage of the following application areas noise reduction speech enhancement in noisy environments image enhancement feature extraction for classification data analysis and visualisation data mining and biomedical data analysis Self Organising Neural Networks will be of interest to postgraduate students and researchers in Connectionist AI Signal Processing and Neural Networks research and development workers and technology development engineers and research engineers *Self-organizing Neural Networks and Exemplar Selection for Training Back-propagation Neural Network* Shijie Qiu, 1993 *Recurrent Neural Networks* Larry Medsker, Lakhmi C. Jain, 1999-12-20 With existent uses ranging from motion detection to music synthesis to financial forecasting recurrent neural networks have generated widespread attention The tremendous interest in these networks drives *Recurrent Neural Networks Design and Applications* a summary of the design applications current research and challenges of this subfield of artificial neural networks This overview incorporates every aspect of recurrent neural networks It outlines the wide variety of complex learning techniques and associated research projects Each chapter addresses architectures from fully connected to partially connected including recurrent multilayer feedforward It presents problems involving trajectories control systems and robotics as well as RNN use in chaotic systems The authors also share their expert knowledge of ideas for alternate designs and advances in theoretical aspects The dynamical behavior of recurrent neural networks is useful for solving problems in science engineering and business This approach will yield huge advances in the coming years *Recurrent Neural Networks* illuminates the opportunities and provides you with a broad view of the current events in this rich field *A Self-organizing Neural Network for Representing Sequences* Viral V. Tolat, 1989 **Recurrent Neural Networks** Fathi M. Salem, 2022-01-03 This textbook provides a compact but comprehensive treatment that provides analytical and design steps to recurrent neural networks from scratch It

provides a treatment of the general recurrent neural networks with principled methods for training that render the generalized backpropagation through time BPTT This author focuses on the basics and nuances of recurrent neural networks providing technical and principled treatment of the subject with a view toward using coding and deep learning computational frameworks e g Python and Tensorflow Keras Recurrent neural networks are treated holistically from simple to gated architectures adopting the technical machinery of adaptive non convex optimization with dynamic constraints to leverage its systematic power in organizing the learning and training processes This permits the flow of concepts and techniques that provide grounded support for design and training choices The author s approach enables strategic co training of output layers using supervised learning and hidden layers using unsupervised learning to generate more efficient internal representations and accuracy performance As a result readers will be enabled to create designs tailoring proficient procedures for recurrent neural networks in their targeted applications

Self-organizing Neural Networks for Sequence Processing Marc Strickert,2004 Self-organizing Linear Neural Networks Jie Zhu,1992 **Properties of a Self-organizing Neural Network** Randall Charles O'Reilly,1989 Self-organizing Neural Networks Stephen Grossberg,Southeast Asian Regional Computer Confederation. Convention,1989

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