Stefan Wermter Jim Austin David Willshaw (Eds.)

Emergent Neural Computational Architectures Based on Neuroscience

Towards Neuroscience-Inspired Computing



Allan Tasman, Jerald Kay, Jeffrey A. Lieberman

Emergent Neural Computational Architectures Based on Neuroscience Stefan Wermter, Jim Austin, David Willshaw, 2003-05-15 It is generally understood that the present approachs to computing do not have the performance flexibility and reliability of biological information processing systems Although there is a comprehensive body of knowledge regarding how information processing occurs in the brain and central nervous system this has had little impact on mainstream computing so far This book presents a broad spectrum of current research into biologically inspired computational systems and thus contributes towards developing new computational approaches based on neuroscience The 39 revised full papers by leading researchers were carefully selected and reviewed for inclusion in this anthology Besides an introductory overview by the volume editors the book offers topical parts on modular organization and robustness timing and synchronization and learning and memory storage **Emergent Neural Computational Architectures Based on Neuroscience** Stefan Wermter, Jim Austin, David Willshaw, 2001-07-25 It is generally understood that the present approachs to computing do not have the performance flexibility and reliability of biological information processing systems Although there is a comprehensive body of knowledge regarding how information processing occurs in the brain and central nervous system this has had little impact on mainstream computing so far This book presents a broad spectrum of current research into biologically inspired computational systems and thus contributes towards developing new computational approaches based on neuroscience The 39 revised full papers by leading researchers were carefully selected and reviewed for inclusion in this anthology Besides an introductory overview by the volume editors the book offers topical parts on modular organization and robustness timing and synchronization and learning and memory storage Self-Organization in the Nervous System Yan M. Yufik, Biswa Sengupta, Karl Friston, 2017-11-30 This special issue reviews state of the art approaches to the biophysical roots of cognition These approaches appeal to the notion that cognitive capacities serve to optimize responses to changing external conditions Crucially this optimisation rests on the ability to predict changes in the environment thus allowing organisms to respond pre emptively to changes before their onset The biophysical mechanisms that underwrite these cognitive capacities remain largely unknown although a number of hypotheses has been advanced in systems neuroscience biophysics and other disciplines These hypotheses converge on the intersection of thermodynamic and information theoretic formulations of self organization in the brain The latter perspective emerged when Shannon's theory of message transmission in communication systems was used to characterise message passing between neurons In its subsequent incarnations the information theory approach has been integrated into computational neuroscience and the Bayesian brain framework The thermodynamic formulation rests on a view of the brain as an aggregation of stochastic microprocessors neurons with subsequent appeal to the constructs of statistical mechanics and thermodynamics In particular

the use of ensemble dynamics to elucidate the relationship between micro scale parameters and those of the macro scale aggregation the brain In general the thermodynamic approach treats the brain as a dissipative system and seeks to represent the development and functioning of cognitive mechanisms as collective capacities that emerge in the course of self organization Its explicanda include energy efficiency enabling progressively more complex cognitive operations such as long term prediction and anticipatory planning A cardinal example of the Bayesian brain approach is the free energy principle that explains self organizing dynamics in the brain in terms of its predictive capabilities and selective sampling of sensory inputs that optimise variational free energy as a proxy for Bayesian model evidence An example of thermodynamically grounded proposals in this issue associates self organization with phase transitions in neuronal state spaces resulting in the formation of bounded neuronal assemblies neuronal packets This special issue seeks a discourse between thermodynamic and informational formulations of the self organising and self evidencing brain For example could minimization of thermodynamic free energy during the formation of neuronal packets underlie minimization of variational free energy Hypotheses Amnon H. Eden, James H Moor, Johnny H Soraker, Eric Steinhart, 2013-04-03 Singularity Hypotheses A Scientific and Philosophical Assessment offers authoritative jargon free essays and critical commentaries on accelerating technological progress and the notion of technological singularity It focuses on conjectures about the intelligence explosion transhumanism and whole brain emulation Recent years have seen a plethora of forecasts about the profound disruptive impact that is likely to result from further progress in these areas Many commentators however doubt the scientific rigor of these forecasts rejecting them as speculative and unfounded We therefore invited prominent computer scientists physicists philosophers biologists economists and other thinkers to assess the singularity hypotheses Their contributions go beyond speculation providing deep insights into the main issues and a balanced picture of the debate American Book Publishing Record ,2001 The British National Bibliography Arthur James Wells, 2001 **Biomedical Engineering Systems and** Technologies Ana Fred, Joaquim Filipe, Hugo Gamboa, 2010-02-25 This book contains the best papers of the Second International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2009 organized by the Institute for Systems and Technologies of Information Control and Communition INSTICC technically co sponsored by the IEEE Engineering in Medicine and Biology Society EMB IEEE Circuits and Systems Society CAS and the Workflow Management Coalition WfMC in cooperation with AAAI and ACM SIGART The purpose of the International Joint Conference on Biomedical Engineering S tems and Technologies is to bring together researchers and practitioners including engineers biologists health professionals and informatics computer scientists int ested in both theoretical advances and applications of information systems artificial intelligence signal processing electronics and other engineering tools in knowledge areas related to biology and medicine BIOSTEC is composed of three co located conferences each specializes in one of the aforementioned main knowledge areas namely BIODEVICES International Conference on Biomedical Electronics and vices

focuses on aspects related to electronics and mechanical engineering pecially equipment and materials inspired from biological systems and or dressing biological requirements Monitoring devices instrumentation sensors and systems biorobotics micro nanotechnologies and biomaterials are some of the technologies addressed at this conference Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Biologically Inspired Cognitive Architectures 2024 Alexei V. Samsonovich, Tingting Liu, 2024-12-09 This book reports on original approaches intended to support the development of biologically inspired cognitive architectures It bridges together different disciplines including artificial intelligence linguistics neuro and social sciences psychology and philosophy of mind among others. The chapters are based on contributions presented at the 2024 Annual International Conference on Brain Inspired Cognitive Architectures for Artificial Intelligence the 15th Annual Meeting of the BICA Society BICA AI 2024 organized in collaboration with the 17th Conference on Artificial General Intelligence AGI 2024 and held on August 13 16 2024 in Seattle WA USA They cover emerging methods theories and ideas towards the realization of general purpose humanlike artificial intelligence or fostering a better understanding of the ways the human mind works All in all this book provides engineers mathematicians psychologists computer scientists and other experts with a timely snapshot of recent research and a source of inspiration for future developments in the broadly intended areas of artificial intelligence and biological inspiration Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2002 **Emergent Neural Computational Architectures** Based on Neuroscience Stefan Wermter, Jim Austin, David Willshaw, 2014-01-15 Advanced Computing in Industrial Mathematics Ivan Georgiev, Hristo Kostadinov, Elena Lilkova, 2025-07-01 This book gathers the peer reviewed proceedings of the 17th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics BGSIAM 22 held in Sofia Bulgaria The general theme of BGSIAM 22 was industrial and applied mathematics with particular focus on mathematical physics numerical analysis high performance computing optimization and control mathematical biology stochastic modeling machine learning digitization and imaging advanced computing in environmental biomedical and engineering applications *Neuroscience Year: Supplement 1 to the Encyclopedia of Neuroscience George* Adelman, 1989-01-01 Verzeichnis lieferbarer Bücher ,2002 **Psychiatry** Allan Tasman, Jerald Kay, Jeffrey A. Lieberman, 1997 Scholarly and pragmatic PSYCHIATRY provides comprehensive coverage of the field by integrating psychodynamic and biological theories and practices Presents information about normal developmental processes the manifestation of normal behavior signs and symptoms of disordered behavior and mental processes clinical diagnosis and the development of a treatment plan Addresses specific psychiatric disorders in detail Sensory Processing in the Mammalian Brain Gerhard Werner, University of Pittsburgh. Center for Neuroscience, 1989 The essays in this edited volume are written by neuroscientists distinguished for their research into the neurobiology of mammalian sensory processing Covering a wide range of current experimental approaches to the investigation of the mammalian brain the contributors address the nature of

the central neural representation of the major sensory systems taste smell hearing sight pain and touch Comparisons of their experimental rationales methods of approach and of the resulting data demonstrate the commonality of many features of neural organization between the different sensory systems explored Among the features discussed in detail are the import of elaborately structured maps of sensory function in the cerebral cortex the degree of anatomical and physiological separation of different aspects of the input within single sensory systems the nature of neuron assemblies responsible for complex analytic events and the relation between metabolic patterns of activity and physiological recording of response properties The importance of theoretical models new imaging techniques and investigations using neural transplants for experimental analysis of sensory systems are demonstrated and the influence of the concepts of cognitive psychology on experimental investigations of sensory processing is discussed A series of commentaries links the book s different sections indicating for the reader those aspects of the experimental findings that are of particular importance to an understanding of the field as a whole EmerNet .1999 Neuromorphic Engineering Elishai Ezra Tsur, 2021-08-27 The brain is not a glorified digital computer It does not store information in registers and it does not mathematically transform mental representations to establish perception or behavior The brain cannot be downloaded to a computer to provide immortality nor can it destroy the world by having its emerged consciousness traveling in cyberspace However studying the brain s core computation architecture can inspire scientists computer architects and algorithm designers to think fundamentally differently about their craft Neuromorphic engineers have the ultimate goal of realizing machines with some aspects of cognitive intelligence They aspire to design computing architectures that could surpass existing digital von Neumann based computing architectures performance In that sense brain research bears the promise of a new computing paradigm As part of a complete cognitive hardware and software ecosystem neuromorphic engineering opens new frontiers for neuro robotics artificial intelligence and supercomputing applications This book will present neuromorphic engineering from three perspectives the scientist the computer architect and the algorithm designer We will zoom in and out of the different disciplines allowing readers with diverse backgrounds to understand and appreciate the field Overall the book will cover the basics of neuronal modeling neuromorphic circuits neural architectures event based communication and the neural engineering framework Readers will have the opportunity to understand the different views over the inherently multidisciplinary field of neuromorphic Emergent neural computation from the interaction of different forms of plasticity Cristina engineering 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 Space-Time Computing with Temporal Neural Networks James E. Smith, 2022-05-31 Understanding and implementing the brain's computational paradigm is the one true grand challenge facing computer researchers Not only are the brain s computational capabilities far beyond those of conventional computers its energy efficiency is truly remarkable. This book written from the perspective of a computer designer and targeted at computer researchers is intended to give both background and lay out a course of action for studying the brain s computational paradigm It contains a mix of concepts and ideas drawn from computational neuroscience combined with those of the author As background relevant biological features are described in terms of their computational and communication properties The brain s neocortex is constructed of massively interconnected neurons that compute and communicate via voltage spikes and a strong argument can be made that precise spike timing is an essential element of the paradigm Drawing from the biological features a mathematics based computational paradigm is constructed. The key feature is spiking neurons that perform communication and processing in space time with emphasis on time In these paradigms time is used as a freely available resource for both communication and computation Neuron models are first discussed in general and one is chosen for detailed development Using the model single neuron computation is first explored Neuron inputs are encoded as spike patterns and the neuron is trained to identify input pattern similarities Individual neurons are building blocks for constructing larger ensembles referred to as columns These columns are trained in an unsupervised manner and operate collectively to perform the basic cognitive function of pattern clustering Similar input patterns are mapped to a much smaller set of similar output patterns thereby dividing the input patterns into identifiable clusters Larger cognitive systems are formed by combining columns into a hierarchical architecture. These higher level architectures are the subject of ongoing study and progress to date is described in detail in later chapters Simulation plays a major role in model development and the simulation infrastructure developed by the author is described

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