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Pulsed Neural Networks:

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   *Silicon Implementation of Pulse Coded Neural Networks* Mona E. Zaghloul,Jack L. Meador,Robert W. Newcomb,1994-03-31 When confronted with the hows and whys of nature s computational engines some prefer to focus upon neural function addressing issues of neural system behavior and its relation to natural intelligence Then there are those who prefer the study of the mechanics of neural systems the nuts and bolts of the wetware the neurons and synapses Those who investigate pulse coded implementations ofartificial neural networks know what it means to stand at the boundary which lies between these two worlds not just asking why natural neural systems behave as they do but also how they achieve their marvelous feats The research results presented in this book not only address more conventional abstract notions of neural like processing but also the more specific details ofneural like processors It has been established for some time that natural neural systems perform a great deal of information processing via electrochemical pulses Accordingly pulse coded neural network concepts are receiving increased attention in artificial neural network research This increased interest is compounded by continuing advances in the field of VLSI circuit design This is the first time in history in which it is practical to construct networks of neuron like circuits of reasonable complexity that can be applied to real problems We believe that the pioneering work in artificial neural systems presented in this book will lead to further advances that will not only be useful in some practical sense but may also provide some additional insight into the operation of their natural counterparts
Computational Science/Intelligence and Applied Informatics Roger Lee,2017-07-07 This book presents the scientific

outcome of the 4th ACIS International Conference on Computational Science Intelligence Applied Informatics CSII 2017 which was held on July 9 13 2017 in Hamamatsu Japan The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science to share their experiences and to exchange new ideas and information in a meaningful way The book includes research findings concerning all aspects theory applications and tools of computer and information science and discusses the practical challenges encountered and the solutions adopted to address them The book features 16 of the conference s most promising papers written by researchers who are expected to make significant contributions in the field of computer and information science **Databases and Information Systems V** Hele-Mai Haav,Ahto Kalja,2009 The Eighth International Baltic Conference on Databases and Information Systems took place on June 2 5 2008 in Tallinn Estonia This conference is continuing a series of successful bi annual Baltic conferences on databases and information systems IS The aim is to provide a wide international forum for academics and practitioners in the field of databases and modern information systems for exchanging their achievements in this area The original research results presented in Databases and Information Systems V mostly belong to novel fields of IS and database research such as database technology and the semantic web ontology based IS IS and AI technologies and IS integration The contribution of Dr Jari Palom ki showed how different ontological commitments affect the way we are modeling the world when creating an information system As semantic technologies have been gaining more attention recently a special session on semantic interoperability of IS was organized The invited talks from each Baltic State gave a good insight how semantic interoperability initiatives are developing in each of the Baltic States and how they relate to the European semantic interoperability framework **An Interactive Environment for the Investigation of Pulsed Neural Networks** Robert J. Webster,1989 **IEEE ... International Conference on Neural Networks** ,1994 **Mathematical Foundations of Computer Science 1998** Lubos Brim,Jiri Zlatuska,Josef Gruska,1998-08-12 This book constitutes the refereed proceedings of the 23rd International Symposium on the Mathematical Foundations of Computer Science MFCS 98 held in Brno Czech Republic in August 1998 The 71 revised full papers presented were carefully reviewed and selected from a total of 168 submissions Also included are 11 full invited surveys by prominent leaders in the area The papers are organized in topical sections on problem complexity logic semantics and automata rewriting automata and transducers typing concurrency semantics and logic circuit complexity programming structural complexity formal languages graphs Turing complexity and logic binary decision diagrams etc **Computer and Information Science** Roger Lee,2013-05-17 This edited book presents scientific results of the 12th IEEE ACIS International Conference on Computer and Information Science ICIS 2013 which was held on June 16 20 2013 in Toki Messe Niigata Japan The aim of this conference was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas research results about all aspects theory applications and tools of computer and information science

and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best 20 papers from those papers accepted for presentation at the conference The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review   Artificial Life VII Mark A. Bedau,John S. McCaskill,Norman H. Packard,Steen Rasmussen,2000-08-01 The term artificial life describes research into synthetic systems that possess some of the essential properties of life This interdisciplinary field includes biologists computer scientists physicists chemists geneticists and others Artificial life may be viewed as an attempt to understand high level behavior from low level rules for example how the simple interactions between ants and their environment lead to complex trail following behavior An understanding of such relationships in particular systems can suggest novel solutions to complex real world problems such as disease prevention stock market prediction and data mining on the Internet Since their inception in 1987 the Artificial Life meetings have grown from small workshops to truly international conferences reflecting the field s increasing appeal to researchers in all areas of science   **Proceedings of the Fifth Workshop on Neural Networks** Mary Lou Padgett,1993   Spiking Neural Network Learning, Benchmarking, Programming and Executing Guoqi Li,Yam Song (Yansong) Chua,Haizhou Li,Peng Li,Emre O. Neftci,Lei Deng,2020-06-05   *Proceedings of the ... Workshop on Neural Networks* ,1993   **Understanding and Bridging the Gap between Neuromorphic Computing and Machine Learning, volume II** Huajin Tang,Lei Deng ,Kaushik Roy,2024-08-26 Towards the long standing dream of artificial intelligence two solution paths have been paved i neuroscience driven neuromorphic computing ii computer science driven machine learning The former targets at harnessing neuroscience to obtain insights for brain like processing by studying the detailed implementation of neural dynamics circuits coding and learning Although our understanding of how the brain works is still very limited this bio plausible way offers an appealing promise for future general intelligence In contrast the latter aims at solving practical tasks typically formulated as a cost function with high accuracy by eschewing most neuroscience details in favor of brute force optimization and feeding a large volume of data With the help of big data e g ImageNet high performance processors e g GPU TPU effective training algorithms e g artificial neural networks with gradient descent training and easy to use design tools e g Pytorch Tensorflow machine learning has achieved superior performance in a broad spectrum of scenarios Although acclaimed for the biological plausibility and the low power advantage benefit from the spike signals and event driven processing there are ongoing debates and skepticisms about neuromorphic computing since it usually performs worse than machine learning in practical tasks especially in terms of the accuracy   Advances in Neural Networks--ISNN ... ,2005   *The 1994 IEEE International Conference on Neural Networks* ,1994   **Artificial Neural Networks** ,2002   *Proceedings of International Conference on Image, Vision and Intelligent Systems 2024 (ICIVIS 2024)* Peng You,Yuhui Zheng,2025-08-05 This book constitutes the refereed proceedings of ICIVIS2024 held in Xining China in June 2024 This book provides a comprehensive collection of

cutting edge research and innovative solutions in image vision and intelligent systems The primary audience consists of academic researchers industry professionals and graduate students working in the domains of image vision and intelligent systems This publication serves as an essential resource for those seeking to stay at the forefront of their respective fields expand their knowledge and explore new avenues for research and development **Towards Neuromorphic Machine Intelligence** Hong Qu,Xiaoling Luo,Zhang Yi,2024-06-05 Towards Neuromorphic Machine Intelligence Spike Based Representation Learning and Applications provides readers with in depth understanding of Spiking Neural Networks SNNs which is a burgeoning research branch of Artificial Neural Networks ANNs AI and Machine Learning that sits at the heart of the integration between Computer Science and Neural Engineering In recent years neural networks have re emerged in relation to AI representing a well grounded paradigm rooted in disciplines from physics and psychology to information science and engineering This book represents one of the established cross over areas where neurophysiology cognition and neural engineering coincide with the development of new Machine Learning and AI paradigms There are many excellent theoretical achievements in neuron models learning algorithms network architecture and so on But these achievements are numerous and scattered with a lack of straightforward systematic integration making it difficult for researchers to assimilate and apply As the third generation of Artificial Neural Networks ANNs Spiking Neural Networks SNNs simulate the neuron dynamics and information transmission in a biological neural system in more detail which is a cross product of computer science and neuroscience The primary target audience of this book is divided into two categories artificial intelligence researchers who know nothing about SNNs and researchers who know a lot about SNNs The former needs to acquire fundamental knowledge of SNNs but the challenge is that much of the existing literature on SNNs only slightly mentions the basic knowledge of SNNs or is too superficial and this book gives a systematic explanation from scratch The latter needs learning about some novel research achievements in the field of SNNs and this book introduces the latest research results on different aspects of SNNs and provides detailed simulation processes to facilitate readers replication In addition the book introduces neuromorphic hardware architecture as a further extension of the SNN system The book starts with the birth and development of SNNs and then introduces the main research hotspots including spiking neuron models learning algorithms network architectures and neuromorphic hardware Therefore the book provides readers with easy access to both the foundational concepts and recent research findings in SNNs Introduces Spiking Neural Networks SNNs a new generation of biologically inspired artificial intelligence Systematically presents basic concepts of SNNs neuron and network models learning algorithms and neuromorphic hardware Introduces the latest research results on various aspects of SNNs and provides detailed simulation processes to facilitate readers replication *IJCNN, International Joint Conference on Neural Networks* ,1989 **Applications and Science of Artificial Neural Networks** Steven K. Rogers,Dennis W. Ruck,1995

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