

# Parallel Digital Implementations of Neural Networks

Przytula, K. Wojtek

Note: This is not the actual book cover

# Parallel Digital Implementations Of Neural Networks

**Santosh K. Kurinec, Sumeet Walia**



## **Parallel Digital Implementations Of Neural Networks:**

*Parallel Digital Implementations of Neural Networks* K. Wojtek Przytula, V. K. Prasanna Kumar, 1993 Explores issues related to implementing artificial neural networks on programmable massively parallel computers and special purpose digital programmable VLSI architectures The nine contributions cover mapping methodologies and implementations digital neurocomputers and architectural building blocks Annotation copyright by Book News Inc Portland OR **VLSI – Compatible Implementations for Artificial Neural Networks** Sied Mehdi Fakhraie, Kenneth C. Smith, 2012-12-06 This book introduces several state of the art VLSI implementations of artificial neural networks ANNs It reviews various hardware approaches to ANN implementations analog digital and pulse coded The analog approach is emphasized as the main one taken in the later chapters of the book The area of VLSI implementation of ANNs has been progressing for the last 15 years but not at the fast pace originally predicted Several reasons have contributed to the slow progress with the main one being that VLSI implementation of ANNs is an interdisciplinary area where only a few researchers academics and graduate students are willing to venture The work of Professors Fakhraie and Smith presented in this book is a welcome addition to the state of the art and will greatly benefit researchers and students working in this area Of particular value is the use of experimental results to backup extensive simulations and in depth modeling The introduction of a synapse MOS device is novel The book applies the concept to a number of applications and guides the reader through more possible applications for future work I am confident that the book will benefit a potentially wide readership M I Elmasry University of Waterloo Waterloo Ontario Canada Preface Neural Networks NNs generally defined as parallel networks that employ a large number of simple processing elements to perform computation in a distributed fashion have attracted a lot of attention in the past fifty years As the result many new discoveries have been made Handbook of Neural Computation E Fiesler, R Beale, 2020-01-15 The Handbook of Neural Computation is a practical hands on guide to the design and implementation of neural networks used by scientists and engineers to tackle difficult and or time consuming problems The handbook bridges an information pathway between scientists and engineers in different disciplines who apply neural networks to similar problems Concurrent Information Processing and Computing Alexandru Nicolau, Dan Grigoras, 2005 **Proceedings of the International Conference on Application Specific Array Processors, September 2-4, 1991, Barcelona, Spain** Mateo Valero, 1991 The International Conference on Application Specific Array Processors ASAP 91 was held September 1991 in Barcelona Spain Application specific computing may be the solution to many computationally intensive problems Coverage here includes design mapping techniques synthesis and verification and systolic array designs and design methodologies No index Annotation copyrighted by Book News Inc Portland OR Artificial Neural Networks Robert J. Schalkoff, 1997 While the primary objective of the text is to provide a teaching tool practicing engineers and scientists are likely to find the clear concept based treatment useful in updating their backgrounds **Energy Efficient Computing & Electronics** Santosh K.

Kurinec, Sumeet Walia, 2019-01-31 In our abundant computing infrastructure performance improvements across most all application spaces are now severely limited by the energy dissipation involved in processing storing and moving data The exponential increase in the volume of data to be handled by our computational infrastructure is driven in large part by unstructured data from countless sources This book explores revolutionary device concepts associated circuits and architectures that will greatly extend the practical engineering limits of energy efficient computation from device to circuit to system level With chapters written by international experts in their corresponding field the text investigates new approaches to lower energy requirements in computing Features Has a comprehensive coverage of various technologies Written by international experts in their corresponding field Covers revolutionary concepts at the device circuit and system levels

IJCNN'99 IEEE Neural Networks Council, 1999 IJCNN 99 spans the neural network field from neurons to consciousness training algorithms to robotics chaos to control fuzzy logic to evolutionary computing Starting with a symposium on biological neural networks it explores the potential impact of neurobiological discoveries **Developments in Neural Networks and Evolutionary Computing for Civil and Structural Engineering** B. H. V. Topping, 1995 Includes a selection of papers presented at the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held at Cambridge England 28 30 August 1995 Proceedings Peter Kornerup, David W.

Matula, 1991 Proceedings Computer Arithmetic Algebra OOP Artificial Neural Networks Edgar Sánchez-Sinencio, 1992 *Optical Interconnection Architectures for Neural Networks* Matthias Blume, 1999 *Canadian Journal of Electrical and Computer Engineering*, 1995 *Applications and Science of Artificial Neural Networks* Steven K. Rogers, Dennis W. Ruck, 1995 Scientific Information Bulletin, 1991 **Neural Network News**, 1990 *The International Journal of Neural Networks*, 1992 **1989 IEEE International Symposium on Circuits and Systems**, 1989 Fourth International Conference on Holographic Systems, Components and Applications, 13-15 September 1993, 1993 **Proceedings**, 1995

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