

PATTERN RECOGNITION

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BY

SELF-ORGANIZING NEURAL NETWORKS

edited by

GAIL A. CARPENTER

and

STEPHEN GROSSBERG

Pattern Recognition By Self Organizing Neural Networks

Dae Su Kim



Pattern Recognition By Self Organizing Neural Networks:

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, self-organizing 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.

Properties and Characteristics of Self-organizing Neural Networks for Unsupervised Pattern Recognition Dae Su Kim, 1990 *Dynamic Hierarchical Self-organizing Neural Networks for Pattern Recognition* Hai-Lung Hung, 1996

Self-Organizing Neural Networks Udo Seiffert, 2013-11-11 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.

Multi-resolution Self-organizing Neural Networks for Pattern Recognition Penny

Pei Chen,2001 The MRF ART neural network employs fast competitive learning and efficient parallel matching to solve complex data classification problems The architecture of the MRF ART not only preserves the ART type neural network s characteristics but also extends its capability to represent input patterns in a hierarchical fashion To achieve this the MRF ART network uses multiple output layers arranged in a cascaded manner which is completely different from a conventional fuzzy ART network with only one output layer Moreover the parallel matching process makes the MRF ART network suitable for hardware implementation

Self-Organizing Maps Teuvo Kohonen,2012-12-06 The second revised edition of this book was suggested by the impressive sales of the first edition Fortunately this enabled us to incorporate new important results that had just been obtained The ASSOM Adaptive Subspace SOM is a new architecture in which invariant feature detectors emerge in an unsupervised learning process Its basic principle was already introduced in the first edition but the motivation and theoretical discussion in the second edition is more thorough and consequent New material has been added to Sect 5 9 and this section has been rewritten totally Correspondingly Sect 1 4 which deals with adaptive subspace classifiers in general and constitutes the prerequisite for the ASSOM principle has also been extended and rewritten totally Another new SOM development is the WEBSOM a two layer architecture intended for the organization of very large collections of full text documents such as those found in the Internet and World Wide Web This architecture was published after the first edition came out The idea and results seemed to be so important that the new Sect 7 8 has now been added to the second edition Another addition that contains new results is Sect 3 15 which describes the acceleration in the computing of very large SOMs It was also felt that Chap 7 which deals with 80M applications had to be extended

Optimality in Biological and Artificial Networks? Daniel S. Levine,Wesley R. Elsberry,2013-06-17 This book is the third in a series based on conferences sponsored by the Metroplex Institute for Neural Dynamics an interdisciplinary organization of neural network professionals in academia and industry The topics selected are of broad interest to both those interested in designing machines to perform intelligent functions and those interested in studying how these functions are actually performed by living organisms and generate discussion of basic and controversial issues in the study of mind The topic of optimality was chosen because it has provoked considerable discussion and controversy in many different academic fields There are several aspects to the issue of optimality First is it true that actual behavior and cognitive functions of living animals including humans can be considered as optimal in some sense Second what is the utility function for biological organisms if any and can it be described mathematically Rather than organize the chapters on a biological versus artificial basis or by what stance they took on optimality it seemed more natural to organize them either by what level of questions they posed or by what intelligent functions they dealt with The book begins with some general frameworks for discussing optimality or the lack of it in biological or artificial systems The next set of chapters deals with some general mathematical and computational theories that help to clarify what the notion of optimality might entail in specific classes of networks The final section deals with optimality in the context of many

different high level issues including exploring one's environment understanding mental illness linguistic communication and social organization The diversity of topics covered in this book is designed to stimulate interdisciplinary thinking and speculation about deep problems in intelligent system organization Bifurcation Theory and Spatio-Temporal Pattern Formation Wayne Nagata, Navaratnam Sri Namachchivaya, 2006-10-03 Nonlinear dynamical systems and the formation of spatio temporal patterns play an important role in current research on partial differential equations This book contains articles on topics of current interest in applications of dynamical systems theory to problems of pattern formation in space and time Topics covered include aspects of lattice dynamical systems convection in fluid layers with large aspect ratios mixed mode oscillations and canards bacterial remediation of waste gyroscopic systems data clustering and the second part of Hilbert's 16th problem Most of the book consists of expository survey material and so can serve as a source of convenient entry points to current research topics in nonlinear dynamics and pattern formation This volume arose from a workshop held at the Fields Institute in December of 2003 honoring Professor William F Langford's fundamental work on the occasion of his sixtieth birthday Information for our distributors Titles in this series are copublished with the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada **Hypermedia: Openness, Structural Awareness, and Adaptivity** Siegfried Reich, Manolis M. Tzagarakis, Paul M.E. De Bra, 2003-07-31 This book presents the joint post proceedings of three International Workshops held as part of the 12th ACM Conference on Hypertext and Hypermedia in Aarhus Denmark in August 2001 The 28 revised full papers presented were carefully refereed and selected during two rounds of reviewing and revision In accordance with the workshop topics the papers are organized in sections on open hypermedia systems structural computing and adaptive hypermedia **Soft Computing for Image and Multimedia Data Processing** Siddhartha Bhattacharyya, Ujjwal Maulik, 2013-10-04 Proper analysis of image and multimedia data requires efficient extraction and segmentation techniques Among the many computational intelligence approaches the soft computing paradigm is best equipped with several tools and techniques that incorporate intelligent concepts and principles This book is dedicated to object extraction image segmentation and edge detection using soft computing techniques with extensive real life application to image and multimedia data The authors start with a comprehensive tutorial on the basics of brain structure and learning and then the key soft computing techniques including evolutionary computation neural networks fuzzy sets and fuzzy logic and rough sets They then present seven chapters that detail the application of representative techniques to complex image processing tasks such as image recognition lighting control target tracking object extraction and edge detection These chapters follow a structured approach with detailed explanations of the problems solutions results and conclusions This is both a standalone textbook for graduates in computer science electrical engineering system science and information technology and a reference for researchers and engineers engaged with pattern recognition image processing and soft computing

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