Elements of

Artificial Neural Networks

Kishan Mehrotra

Chilukuri K. Mohan

Sanjay Ranka

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M Carnoy

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AI Magazine ,2004   **Elements of Artificial Neural Networks** Kishan Mehrotra,Chilukuri K. Mohan,Sanjay Ranka,1997 Elements of Artificial Neural Networks provides a clearly organized general introduction focusing on a broad range of algorithms for students and others who want to use neural networks rather than simply study them The authors who have been developing and team teaching the material in a one semester course over the past six years describe most of the basic neural network models with several detailed solved examples and discuss the rationale and advantages of the models as well as their limitations The approach is practical and open minded and requires very little mathematical or technical background Written from a computer science and statistics point of view the text stresses links to contiguous fields and can easily serve as a first course for students in economics and management The opening chapter sets the stage presenting the basic concepts in a clear and objective way and tackling important yet rarely addressed questions related to the use of neural networks in practical situations Subsequent chapters on supervised learning single layer and multilayer networks unsupervised learning and associative models are structured around classes of problems to which networks can be applied Applications are discussed along with the algorithms A separate chapter takes up optimization methods The most frequently used algorithms such as backpropagation are introduced early on right after perceptrons so that these can form the basis for initiating course projects Algorithms published as late as 1995 are also included All of the algorithms are presented using block structured pseudo code and exercises are provided throughout Software implementing many commonly used neural network algorithms is available at the book s website Transparency masters including abbreviated text and figures for the entire book are available for instructors using the text   *Subject Guide to Books in Print* ,1991   <u>Bulletin of the Medical Library Association</u> Medical Library Association,1999   **The Fuzzy Future** Bart Kosko,1999 Who draws the line in the digital age Those with the most power Does the digital age even have black and white parameters Where does one country s Internet jurisdiction end and an other country s begin Who owns the ocean or the moon or even you Would you be you if a chip replaced your brain Fuzzy logic has been the most explosive new concept in science since chaos theory Now Bart Kosko the leading proponent of this revolutionary worldview tackles these questions and shows how fuzzy thinking will shape every aspect of life in the digital age from politics and genetics to warfare and technology and art and finally to mortality itself The Fuzzy Future starts with a self contained explanation of fuzzy logic and then explores how shades of gray or fuzz will change how we vote pay taxes fund science shop on the Internet view abortion have children fish the oceans wage smart wars or create smart art raise machine IQs invest money view black holes and confide in our software agents It also shows us how we may someday challenge death in the digital immortality of a nanochip Today camcorders Internet spam filters nuclear power plants and the new Volkswagen Beetle depend on fuzzy logic Tomorrow we may too because the future is fuzzy   *Space Communications* Louise C. Bickford,1965   *Applied Mechanics Reviews* ,1995   *Water Research* ,1993   **Space**

Communications: Theory and Applications: Information processing and advanced techniques ,1965 **NASA SP.** ,1962 **Artificial Neural Networks and Adaptive Systems for the Information Technologies** Ernesto Damiani,2002 **Space Communications- Theory and Applications. Volume 3- Information Processing and Advanced Techniques a Bibliography, 1958 - 1963** ,1965 **Artificial Adaptive Systems Using Auto Contractive Maps** Paolo Massimo Buscema,Giulia Massini,Marco Breda,Weldon A. Lodwick,Francis Newman,Masoud Asadi-Zeydabadi,2018-02-24 This book offers an introduction to artificial adaptive systems and a general model of the relationships between the data and algorithms used to analyze them It subsequently describes artificial neural networks as a subclass of artificial adaptive systems and reports on the backpropagation algorithm while also identifying an important connection between supervised and unsupervised artificial neural networks The book s primary focus is on the auto contractive map an unsupervised artificial neural network employing a fixed point method versus traditional energy minimization This is a powerful tool for understanding associating and transforming data as demonstrated in the numerous examples presented here A supervised version of the auto contracting map is also introduced as an outstanding method for recognizing digits and defects In closing the book walks the readers through the theory and examples of how the auto contracting map can be used in conjunction with another artificial neural network the spin net as a dynamic form of auto associative memory **Choice** ,1994 **American Book Publishing Record** ,2003 **Index of Conference Proceedings** British Library. Document Supply Centre,1998 **AMSTAT News** ,1996 Sci-tech News ,1990 *Opisthobranch Newsletter* ,1996 *Neural Network Modeling and Identification of Dynamical Systems* Yury Tiumentsev,Mikhail Egorchev,2019-05-17 Neural Network Modeling and Identification of Dynamical Systems presents a new approach on how to obtain the adaptive neural network models for complex systems that are typically found in real world applications The book introduces the theoretical knowledge available for the modeled system into the purely empirical black box model thereby converting the model to the gray box category This approach significantly reduces the dimension of the resulting model and the required size of the training set This book offers solutions for identifying controlled dynamical systems as well as identifying characteristics of such systems in particular the aerodynamic characteristics of aircraft Covers both types of dynamic neural networks black box and gray box including their structure synthesis and training Offers application examples of dynamic neural network technologies primarily related to aircraft Provides an overview of recent achievements and future needs in this area

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