

Adrian J. Shepherd

Second-Order Methods for Neural Networks

FAST AND RELIABLE TRAINING METHODS
FOR MULTI-LAYER PERCEPTRONS



Springer

Secondorder Methods For Neural Networks Fast And Reliable Training Methods For Multilayer Perceptrons

Cornelius T. Leondes



Secondorder Methods For Neural Networks Fast And Reliable Training Methods For Multilayer Perceptrons:

Second-Order Methods for Neural Networks Adrian J. Shepherd, 2012-12-06 About This Book This book is about training methods in particular fast second order training methods for multi layer perceptrons MLPs MLPs also known as feed forward neural networks are the most widely used class of neural network Over the past decade MLPs have achieved increasing popularity among scientists engineers and other professionals as tools for tackling a wide variety of information processing tasks In common with all neural networks MLPs are trained rather than programmed to carry out the chosen information processing function Unfortunately the traditional method for training MLPs the well known backpropagation method is notoriously slow and unreliable when applied to many practical tasks The development of fast and reliable training algorithms for MLPs is one of the most important areas of research within the entire field of neural computing The main purpose of this book is to bring to a wider audience a range of alternative methods for training MLPs methods which have proved orders of magnitude faster than backpropagation when applied to many training tasks The book also addresses the well known local minima problem and explains ways in which fast training methods can be combined with strategies for avoiding or escaping from local minima All the methods described in this book have a strong theoretical foundation drawing on such diverse mathematical fields as classical optimisation theory homotopic theory and stochastic approximation theory

Second-Order Methods for Neural Networks Adrian J. Shepherd, 2014-01-15 *Second-order and Nonsmooth Training Methods for Fuzzy Neural Networks* Christian Eitzinger, 2001 *Artificial Neural Nets and Genetic Algorithms* Vera Kurkova, Nigel C. Steele, Roman Neruda, Miroslav Karny, 2013-11-11 The first ICANNGA conference devoted to biologically inspired computational paradigms Neural Networks and Genetic Algorithms was held in Innsbruck Austria in 1993 The meeting attracted researchers from all over Europe and further afield who decided that this particular blend of topics should form a theme for a series of biennial conferences The second meeting held in Ales France in 1995 carried on the tradition set in Innsbruck of a relaxed and stimulating environment for the exchange of ideas The series has continued in Norwich UK in 1997 and Portoroz Slovenia in 1999 The Institute of Computer Science Czech Academy of Sciences is pleased to host the fifth conference in Prague We have chosen the Liechtenstein palace under the Prague Castle as the conference site to enhance the traditionally good atmosphere of the meeting There is an inspirational genius loci of the historical center of the city where four hundred years ago a fruitful combination of theoretical and empirical method through the collaboration of Johannes Kepler and Tycho de Brahe led to the discovery of the laws of planetary orbits **Concepts for Neural**

Networks Lawrence J. Landau, 2012-12-06 **Concepts for Neural Networks** A Survey provides a wide ranging survey of concepts relating to the study of neural networks It includes chapters explaining the basics of both artificial neural networks and the mathematics of neural networks as well as chapters covering the more philosophical background to the topic and consciousness There is also significant emphasis on the practical use of the techniques described in the area of robotics

Containing contributions from some of the world's leading specialists in their fields including Dr Ton Coolen and Professor Igor Aleksander this volume will provide the reader with a good general introduction to the basic concepts needed to understand and use neural network technology

Implementation Techniques Cornelius T. Leondes, 1998-02-09 This volume covers practical and effective implementation techniques including recurrent methods Boltzmann machines constructive learning with methods for the reduction of complexity in neural network systems modular systems associative memory neural network design based on the concept of the Inductive Logic Unit and a comprehensive treatment of implementations in the area of data classification Numerous examples enhance the text Practitioners researchers and students in engineering and computer science will find Implementation Techniques a comprehensive and powerful reference

Recurrent methods Boltzmann machines Constructive learning with methods for the reduction of complexity in neural network systems Modular systems Associative memory Neural network design based on the concept of the Inductive Logic Unit Data classification Integrated neuron model systems that function as programmable rational approximators

Artificial Immune Systems: A New Computational Intelligence Approach Leandro Nunes de Castro, Jonathan Timmis, 2002-09-23

Artificial Immune Systems AIS are adaptive systems inspired by the biological immune system and applied to problem solving This book provides an accessible introduction that will be suitable for anyone who is beginning to study or work in this area It gives a clear definition of an AIS sets out the foundations of the topic including basic algorithms and analyses how the immune system relates to other biological systems and processes No prior knowledge of immunology is needed all the essential background information is covered in the introductory chapters Key features of the book include A discussion of AIS in the context of Computational Intelligence Case studies in Autonomous Navigation Computer Network Security Job Shop Scheduling and Data Analysis B7 An extensive survey of applications A framework to help the reader design and understand AIS A web site with additional resources including pseudocodes for immune algorithms and links to related sites Written primarily for final year undergraduate and postgraduate students studying Artificial Intelligence Evolutionary and Biologically Inspired Computing this book will also be of interest to industrial and academic researchers working in related areas

Image Processing using Pulse-Coupled Neural Networks Thomas Lindblad, Jason M. Kinser, 2013-04-17 Pulse coupled neural networks represent a new and exciting advance in image processing research When exposed to grey scale or colour images they produce a series of binary pulse images which allow the content of the image to be assessed much more accurately than from the original In this volume Thomas Lindblad and Jason Kinser provide a much needed introduction to the topic of PCNNs They review the theoretical foundations and then look at a number of image processing applications including segmentation edge extraction texture extraction object identification object isolation motion processing foveation noise suppression and image fusion They also look at the PCNNs ability to process logical arguments and at how to implement it in specialised hardware It will be of particular interest to researchers and practitioners working in image

processing especially those involved with medical military or industrial applications It will also be of interest to graduate level students

Machine Learning Safety Xiaowei Huang,Gaojie Jin,Wenjie Ruan,2023-04-28 Machine learning algorithms allow computers to learn without being explicitly programmed Their application is now spreading to highly sophisticated tasks across multiple domains such as medical diagnostics or fully autonomous vehicles While this development holds great potential it also raises new safety concerns as machine learning has many specificities that make its behaviour prediction and assessment very different from that for explicitly programmed software systems This book addresses the main safety concerns with regard to machine learning including its susceptibility to environmental noise and adversarial attacks Such vulnerabilities have become a major roadblock to the deployment of machine learning in safety critical applications The book presents up to date techniques for adversarial attacks which are used to assess the vulnerabilities of machine learning models formal verification which is used to determine if a trained machine learning model is free of vulnerabilities and adversarial training which is used to enhance the training process and reduce vulnerabilities The book aims to improve readers awareness of the potential safety issues regarding machine learning models In addition it includes up to date techniques for dealing with these issues equipping readers with not only technical knowledge but also hands on practical skills

Engineering Mathematics and Computing Park Gyei-Kark,Dipak Kumar Jana,Prabir Panja,Mohd Helmy Abd Wahab,2022-10-03 This book contains select papers presented at the 3rd International Conference on Engineering Mathematics and Computing ICEMC 2020 held at the Haldia Institute of Technology Purba Midnapur West Bengal India from 5 7 February 2020 The book discusses new developments and advances in the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems hybrid intelligent systems etc The book containing 19 chapters is useful to the researchers scholars and practising engineers as well as graduate students of engineering and applied sciences

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