

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

**Adrian J. Shepherd**



## **Second-Order 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 **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

**Second-order and Nonsmooth Training Methods for Fuzzy Neural Networks** Christian Eitzinger, 2001 **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      Artificial Neural Networks – ICANN 2009 Cesare Alippi, Marios Polycarpou, Christos Panayiotou, Georgios Ellinas, 2009-09-03 This volume is part of the two volume proceedings of the 19th International Conference on Artificial Neural Networks ICANN 2009 which was held in Cyprus during September 14-17 2009 The ICANN conference is an annual meeting sponsored by the European Neural Network Society ENNS in cooperation with the International Neural Network Society INNS and the Japanese Neural Network Society JNNS ICANN 2009 was technically sponsored by the IEEE Computational Intelligence Society This series of conferences has been held annually since 1991 in various European countries and covers the field of neurocomputing learning systems and related areas Artificial neural networks provide an information processing structure inspired by biological nervous systems They consist of a large number of highly interconnected processing elements with the capability of learning by example The field of artificial neural networks has evolved significantly in the last two decades with active participation from diverse fields such as engineering computer science mathematics artificial intelligence system theory biology operations research and neuroscience Artificial neural networks have been widely applied for pattern recognition control optimization image processing classification signal processing etc      *Geophysical Applications of Artificial Neural Networks and Fuzzy Logic* W. Sandham, M. Leggett, 2013-06-29 The past fifteen years has witnessed an explosive growth in the fundamental research and applications of artificial neural networks ANNs and fuzzy logic FL The main impetus behind this growth has been the ability of such methods to offer solutions not amenable to conventional techniques particularly in application domains involving pattern recognition prediction and control Although the origins of ANNs and FL may be traced back to the 1940s and 1960s respectively the most rapid progress has only been achieved in the last fifteen years This has been due to significant theoretical advances in our understanding of ANNs and FL complemented by major technological developments in high speed computing In geophysics ANNs and FL have enjoyed significant success and are now employed routinely in the following areas amongst others 1 Exploration Seismology a Seismic data processing trace editing first break picking deconvolution and multiple suppression wavelet estimation velocity analysis noise identification reduction statics analysis dataset matching prediction attenuation b AVO analysis c Chimneys d Compression I dimensionality reduction e Shear wave analysis f Interpretation event tracking lithology prediction and well log analysis prospect appraisal hydrocarbon prediction inversion reservoir characterisation quality assessment tomography 2 Earthquake Seismology and Subterranean Nuclear Explosions 3 Mineral Exploration 4 Electromagnetic I Potential Field Exploration a Electromagnetic methods b Potential field methods c Ground penetrating radar d Remote sensing e inversion      **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

*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

Advances in Neural Information Processing Systems 13 Todd K. Leen,Thomas G. Dietterich,Volker Tresp,2001 The proceedings of the 2000 Neural Information Processing Systems NIPS Conference The annual conference on Neural Information Processing Systems NIPS is the flagship conference on neural computation The conference is interdisciplinary with contributions in algorithms learning theory cognitive science neuroscience vision speech and signal processing reinforcement learning and control implementations and diverse applications Only about 30 percent of the papers submitted are accepted for presentation at NIPS so the quality is exceptionally high These proceedings contain all of the papers that were presented at the 2000 conference

*Artificial Neural Networks and Neural Information Processing — ICANN/ICONIP 2003* Okyay Kaynak,Ethem Alpaydin,Erkki Oja,Lei Xu,2003-08-03 The refereed proceedings of the Joint International Conference on Artificial Neural Networks and International Conference on Neural Information Processing ICANN ICONIP 2003 held in Istanbul Turkey in June 2003 The 138 revised full papers were carefully reviewed and selected from 346 submissions The papers are organized in topical sections on learning algorithms support vector machine and kernel methods statistical data analysis pattern recognition vision speech recognition robotics and control signal processing time series prediction

intelligent systems neural network hardware cognitive science computational neuroscience context aware systems complex valued neural networks emotion recognition and applications in bioinformatics

*Intelligent and Interactive Computing* Vincenzo Piuri, Valentina Emilia Balas, Samarjeet Borah, Sharifah Sakinah Syed Ahmad, 2019-05-16 This book presents the latest research on computational approaches to learning It includes high quality peer reviewed papers from the Intelligent and Interactive Computing Conference IIC 2018 organized by the Universiti Teknikal Malaysia Melaka It uses empirical studies theoretical analysis and comparisons with psychological phenomena to show how learning methods can be employed to solve important application problems The book also describes ongoing research in various research labs universities and institutions which may lead to the development of marketable products

*Evolutionary Learning Algorithms for Neural Adaptive Control* Dimitris C. Dracopoulos, 2013-12-21 Evolutionary Learning Algorithms for Neural Adaptive Control is an advanced textbook which investigates how neural networks and genetic algorithms can be applied to difficult adaptive control problems which conventional results are either unable to solve or for which they can not provide satisfactory results It focuses on the principles involved rather than on the modelling of the applications themselves and therefore provides the reader with a good introduction to the fundamental issues involved

**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

**Integration of Fuzzy Logic and Chaos Theory** Zhong Li, Guanrong Chen, 2008-07-21 The 1960s were perhaps a decade of confusion when scientists faced difficulties in dealing with imprecise information and complex dynamics A new set theory and then an infinite valued logic of Lotfi A Zadeh were so confusing that they were called fuzzy set theory and fuzzy logic a deterministic system found by E N Lorenz to have random behaviours was so unusual that it was lately named a chaotic system Just like irrational and imaginary numbers negative energy anti matter etc fuzzy logic and chaos were gradually and eventually accepted by many if not all scientists and engineers as fundamental concepts theories as well as technologies In particular fuzzy systems technology has achieved its maturity with widespread applications in many industrial commercial and technical fields ranging from control automation and artificial intelligence to image signal processing pattern recognition and electronic commerce Chaos on the other hand was considered one of the three monumental discoveries of the twentieth century together with the theory of relativity and quantum mechanics As a very special nonlinear dynamical phenomenon chaos has reached its current outstanding status from being merely a scientific curiosity in the mid 1960s to an applicable technology in

the late 1990s Finding the intrinsic relation between fuzzy logic and chaos theory is certainly of significant interest and of potential importance The past 20 years have indeed witnessed some serious explorations of the interactions between fuzzy logic and chaos theory leading to such research topics as fuzzy modeling of chaotic systems using Takagi Sugeno models linguistic descriptions of chaotic systems fuzzy control of chaos and a combination of fuzzy control technology and chaos theory for various engineering practices

**4th Neural Computation and Psychology Workshop, London, 9-11 April 1997** John A. Bullinaria, David W. Glasspool, George Houghton, 2012-12-06 This volume collects together refereed versions of twenty five papers presented at the 4th Neural Computation and Psychology Workshop held at University College London in April 1997 The NCPW workshop series is now well established as a lively forum which brings together researchers from such diverse disciplines as artificial intelligence mathematics cognitive science computer science neurobiology philosophy and psychology to discuss their work on connectionist modelling in psychology The general theme of this fourth workshop in the series was Connectionist Representations a topic which not only attracted participants from all these fields but from all over the world as well From the point of view of the conference organisers focusing on representational issues had the advantage that it immediately involved researchers from all branches of neural computation Being so central both to psychology and to connectionist modelling it is one area about which everyone in the field has their own strong views and the diversity and quality of the presentations and just as importantly the discussion which followed them certainly attested to this

**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

**Soft Computing in Chemical and Physical Sciences** Kanchan Sarkar, Sankar Prasad

Bhattacharyya, 2017-11-06 This book can be regarded as Soft computing for physicists and chemists self taught It prepares the readers with a solid background of soft computing and how to adapt soft computing techniques to problem solving in physical and chemical research Soft computing methods have been little explored by researchers in physical and chemical sciences primarily because of the absence of books that bridge the gap between the traditional computing paradigm pursued by researchers in science and the new soft computing paradigm that has emerged in computer science This book is the

interface between these primary sources and researchers in physics and chemistry      *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      *Research and Development in Intelligent Systems XXIII* Frans Coenen, Andrew Tuson, 2010-05-30 M A BRAMER University of Portsmouth UK This volume comprises the refereed technical papers presented at AI 2006 the Twenty sixth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2006 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence The papers in this volume present new and innovative developments in the field divided into sections on AI Techniques Knowledge Discovery in Data Argumentation Dialogue Games and Optimisation Knowledge Representation and Management Semantic Web and Model Based Systems and Simulation For the first time the volume also includes the text of short papers presented as posters at the conference This year s prize for the best refereed technical paper was won by a paper entitled Combining Task Execution with Background Knowledge for the Verification of Medical Guidelines written by a team comprising Arjen Hommersom Perry Groot and Peter Lucas University of Nijmegen The Netherlands and Michael Balser and Jonathan Schmitt University of Augsburg Germany SGAI gratefully acknowledges the long term sponsorship of Hewlett Packard Laboratories Bristol for this prize which goes back to the 1980s This is the twenty third volume in the Research and Development series The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems XIV On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year s technical programme in particular the programme committee members the executive programme committee and our administrator Mark Firman



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