

Colin Fyfe

Hebbian Learning and Negative Feedback Networks

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Hebbian Learning And Negative Feedback Networks:

Hebbian Learning and Negative Feedback Networks Colin Fyfe, 2007-06-07 This book is the outcome of a decade's research into a specific architecture and associated learning mechanism for an artificial neural network the architecture involves negative feedback and the learning mechanism is simple Hebbian learning The research began with my own thesis at the University of Strathclyde Scotland under Professor Douglas McGregor which culminated with me being awarded a PhD in 1995 the title of which was Negative Feedback as an Organising Principle for Artificial Neural Networks Naturally enough having established this theme when I began to supervise PhD students of my own we continued to develop this concept and this book owes much to the research and theses of these students at the Applied Computational Intelligence Research Unit in the University of Paisley Thus we discuss work from Dr Darryl Charles 24 in Chapter 5 Dr Stephen McGlinchey 127 in Chapter 7 Dr Donald MacDonald 121 in Chapters 6 and 8 Dr Emilio Corchado 29 in Chapter 8 We briefly discuss one simulation from the thesis of Dr Mark Girolami 58 in Chapter 6 but do not discuss any of the rest of his thesis since it has already appeared in book form 59 We also must credit Cesar Garcia Osorio a current PhD student for the comparative study of the two Exploratory Projection Pursuit networks in Chapter 8 All of Chapters 3 to 8 deal with single stream artificial neural networks

Intelligent Autonomous Systems Dilip Kumar Pratihar, 2010-03-11 Intelligent Autonomous Systems IAS are the physical embodiment of machine intelligence providing a core concept for integrating various advanced technologies with pattern recognition and learning The basic philosophy of IAS research is to explore and understand the nature of intelligence in problems of perception reasoning learning and control in order to develop and implement the theory to engineered realization In other words the objective is to formulate various methodologies for the development of robots which can operate autonomously and exhibit intelligent behavior by making appropriate decisions to perform the right task at the right time Since IAS basically deals with the integration of machines computing sensing and software to create intelligent systems capable of interacting with the complexities of the real world advanced topics like soft computing artificial life evolutionary biology and cognitive psychology have great promise in improving its intelligence and performance Because of the interdisciplinary character the subject has several challenging issues for research design and development covering a number of disciplines These issues are further concerned with the development of both technology and methodology apart from various operations The present research monograph titled Intelligent Autonomous Systems Foundations and Applications edited by two renowned researchers Professor Dilip K Pratihar of IIT Kharagpur India and Professor Lakhmi C Jain University of South Australia Australia provides a fairly representative cross section of the activities that is going on all over the world in this area

Artificial Intelligence and Cognitive Science Michael O'Neill, Richard F.E. Sutcliffe, Conor Ryan, Malachy Eaton, 2003-08-02 This book constitutes the refereed proceedings of the 13th Irish International Conference on Artificial Intelligence and Cognitive Science AICS 2002 held in Limerick Ireland in September 2002 The 16 revised full papers and 17

revised short papers presented were carefully reviewed and selected for inclusion in the book Among the topics addressed are cognitive modeling case based reasoning constraint processing data mining evolutionary computation intelligent agents information retrieval knowledge representation reasoning machine learning natural language processing neural networks perception AI planning robotics and scheduling

Mathematical Linguistics Andras Kornai, 2007-11-10 Mathematical Linguistics introduces the mathematical foundations of linguistics to computer scientists engineers and mathematicians interested in natural language processing The book presents linguistics as a cumulative body of knowledge from the ground up no prior knowledge of linguistics is assumed As the first textbook of its kind this book is useful for those in information science and in natural language technologies

Artificial Neural Nets and Genetic Algorithms George D. Smith, Nigel C. Steele, Rudolf F. Albrecht, 2012-12-06 This is the third in a series of conferences devoted primarily to the theory and applications of artificial neural networks and genetic algorithms The first such event was held in Innsbruck Austria in April 1993 the second in Ales France in April 1995 We are pleased to host the 1997 event in the mediaeval city of Norwich England and to carry on the fine tradition set by its predecessors of providing a relaxed and stimulating environment for both established and emerging researchers working in these and other related fields This series of conferences is unique in recognising the relation between the two main themes of artificial neural networks and genetic algorithms each having its origin in a natural process fundamental to life on earth and each now well established as a paradigm fundamental to continuing technological development through the solution of complex industrial commercial and financial problems This is well illustrated in this volume by the numerous applications of both paradigms to new and challenging problems The third key theme of the series therefore is the integration of both technologies either through the use of the genetic algorithm to construct the most effective network architecture for the problem in hand or more recently the use of neural networks as approximate fitness functions for a genetic algorithm searching for good solutions in an incomplete solution space i e one for which the fitness is not easily established for every possible solution instance

Biologically Inspired Artificial Intelligence for Computer Games Charles, Darryl, Fyfe, Colin, Livingstone, Daniel, McGlinchey, Stephen, 2007-11-30 This book examines modern artificial intelligence to display how it may be applied to computer games It spans the divide that exists between the academic research community working with advanced artificial intelligence and the games programming community which must create and release new and interesting games creating an invaluable collection supporting both technological research and the gaming industry Provided by publisher

Fusion Methods for Unsupervised Learning Ensembles Bruno Baruaque, 2010-11-18 The application of a committee of experts or ensemble learning to artificial neural networks that apply unsupervised learning techniques is widely considered to enhance the effectiveness of such networks greatly This book examines the potential of the ensemble meta algorithm by describing and testing a technique based on the combination of ensembles and statistical PCA that is able to determine the presence of outliers in high dimensional data sets and to minimize

outlier effects in the final results Its central contribution concerns an algorithm for the ensemble fusion of topology preserving maps referred to as Weighted Voting Superposition WeVoS which has been devised to improve data exploration by 2 D visualization over multi dimensional data sets This generic algorithm is applied in combination with several other models taken from the family of topology preserving maps such as the SOM ViSOM SIM and Max SIM A range of quality measures for topology preserving maps that are proposed in the literature are used to validate and compare WeVoS with other algorithms The experimental results demonstrate that in the majority of cases the WeVoS algorithm outperforms earlier map fusion methods and the simpler versions of the algorithm with which it is compared All the algorithms are tested in different artificial data sets and in several of the most common machine learning data sets in order to corroborate their theoretical properties Moreover a real life case study taken from the food industry demonstrates the practical benefits of their application to more complex problems

Artificial Neural Networks and Machine Learning -- ICANN 2012 Alessandro Villa,Włodzisław Duch,Péter Érdi,Francesco Masulli,Günther Palm,2012-09-19 The two volume set LNCS 7552 7553 constitutes the proceedings of the 22nd International Conference on Artificial Neural Networks ICANN 2012 held in Lausanne Switzerland in September 2012 The 162 papers included in the proceedings were carefully reviewed and selected from 247 submissions They are organized in topical sections named theoretical neural computation information and optimization from neurons to neuromorphism spiking dynamics from single neurons to networks complex firing patterns movement and motion from sensation to perception object and face recognition reinforcement learning bayesian and echo state networks recurrent neural networks and reservoir computing coding architectures interacting with the brain swarm intelligence and decision making multilayer perceptrons and kernel networks training and learning inference and recognition support vector machines self organizing maps and clustering clustering mining and exploratory analysis bioinformatics and time series and forecasting

MICAI 2004: Advances in Artificial Intelligence Raúl Monroy,Gustavo Arroyo-Figueroa,Luis Enrique Sucar,Humberto Sossa,2004-03-12 This book constitutes the refereed proceedings of the Third Mexican International Conference on Artificial Intelligence MICAI 2004 held in Mexico City Mexico in April 2004 The 94 revised full papers presented were carefully reviewed and selected from 254 submissions The papers are organized in topical sections on applications intelligent interfaces and speech processing knowledge representation logic and constraint programming machine learning and data mining multiagent systems and distributed AI natural language processing uncertainty reasoning vision evolutionary computation modeling and intelligent control neural networks and robotics

Computational Science - ICCS 2004 Marian Bubak,Geert D. van Albada,Peter M.A. Sloot,Jack J. Dongarra,2004-05-13 The International Conference on Computational Science ICCS 2004 held in Krak ow Poland June 6 9 2004 was a follow up to the highly successful ICCS 2003 held at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco USA As computational science is still evolving in its quest for subjects of investigation and efficient

methods ICCS 2004 was devised as a forum for scientists from mathematics and computer science as the basic computing disciplines and application areas interested in advanced computational methods for physics chemistry life sciences engineering arts and humanities as well as computer system vendors and software developers The main objective of this conference was to discuss problems and solutions in all areas to identify new issues to shape future directions of research and to help users apply various advanced computational techniques The event harvested recent developments in computational grids and next generation computing systems tools advanced numerical methods data driven systems and novel applications such as complex systems nanotechnology economics physics and population evolution Advances in Case-Based Reasoning Peter Funk, Pedro A. González Calero, 2004-08-19 This book constitutes the refereed proceedings of the 7th European Conference on Case Based Reasoning ECCBR 2004 held in Madrid Spain in August September 2004 The 56 revised full papers presented together with an invited paper and the abstract of an invited talk were carefully reviewed and selected from 85 submissions All current issues in case based reasoning ranging from theoretical and methodological issues to advanced applications in various fields are addressed Adaptive and Natural Computing Algorithms Bernadete Ribeiro, 2005-03-08 The papers in this volume present theoretical insights and report practical applications both for neural networks genetic algorithms and evolutionary computation In the field of natural computing swarm optimization bioinformatics and computational biology contributions are no less compelling A wide selection of contributions report applications of neural networks to process engineering robotics and control Contributions also abound in the field of evolutionary computation particularly in combinatorial and optimization problems Many papers are dedicated to machine learning and heuristics hybrid intelligent systems and soft computing applications Some papers are devoted to quantum computation In addition kernel based algorithms able to solve tasks other than classification represent a revolution in pattern recognition bridging existing gaps Further topics are intelligent signal processing and computer vision Soft Computing Applications in Business Bhanu Prasad, 2008-04-10 Soft computing techniques are widely used in most businesses This book consists of several important papers on the applications of soft computing techniques for the business field The soft computing techniques used in this book include or very closely related to Bayesian networks biclustering methods case based reasoning data mining Dempster Shafer theory ensemble learning evolutionary programming fuzzy decision trees hidden Markov models intelligent agents k means clustering maximum likelihood Hebbian learning neural networks opportunistic scheduling probability distributions combined with Monte Carlo methods rough sets self organizing maps support vector machines uncertain reasoning other statistical and machine learning techniques and combinations of these techniques The businesses or business problems addressed in this book include or very closely related to analysis of correlations between currency exchange rates analysis of USA banks and Moody's bank financial strength rating arrears management business risk identification company audit fee evaluation dental treatments business internal control intelligent tutoring systems and

educational assessment modeling agent behavior motor insurance industry personal loan defaults pricing strategies for increasing the market share pricing strategies in supply chain management probabilistic sales forecasting user relevance feedback analysis for online text retrieval and world crude oil spot price forecasting Advances in Data Mining - Theoretical Aspects and Applications Petra Perner,2007-08-18 The papers in this volume represent the proceedings of the 7th Industrial Conference on Data Mining They are organized into topical sections on aspects of classification and prediction clustering web mining data mining in medicine applications of data mining time series and frequent pattern mining and association rule mining Readers gain new insights into theories underlying data mining and discover state of the technology applications *Self-Organising Neural Networks* Mark Girolami,2012-12-06 The conception of fresh ideas and the development of new techniques for Blind Source Separation and Independent Component Analysis have been rapid in recent years It is also encouraging from the perspective of the many scientists involved in this fascinating area of research to witness the growing list of successful applications of these methods to a diverse range of practical everyday problems This growth has been due in part to the number of promising young and enthusiastic researchers who have committed their efforts to expanding the current body of knowledge within this field of research The author of this book is among one of their number I trust that the present book by Dr Mark Girolami will provide a rapid and effective means of communicating some of these new ideas to a wide international audience and that in turn this will expand further the growth of knowledge In my opinion this book makes an important contribution to the theory of Independent Component Analysis and Blind Source Separation This opens a range of exciting methods techniques and algorithms for applied researchers and practitioner engineers especially from the perspective of artificial neural networks and information theory It has been interesting to see how rapidly the scientific literature in this area has grown **Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society** Michael G. Shafto,Pat Langley,1997 This volume features the complete text of the material presented at the Nineteenth Annual Conference of the Cognitive Science Society Papers have been loosely grouped by topic and an author index is provided in the back As in previous years the symposium included an interesting mixture of papers on many topics from researchers with diverse backgrounds and different goals presenting a multifaceted view of cognitive science In hopes of facilitating searches of this work an electronic index on the Internet s World Wide Web is provided Titles authors and summaries of all the papers published here have been placed in an online database which may be freely searched by anyone You can reach the web site at www.csli.stanford.edu/cogsci97 Correlative Learning Zhe Chen,Simon Haykin,Jos J. Eggermont,Suzanna Becker,2008-01-07 Correlative Learning A Basis for Brain and Adaptive Systems provides a bridge between three disciplines computational neuroscience neural networks and signal processing First the authors lay down the preliminary neuroscience background for engineers The book also presents an overview of the role of correlation in the human brain as well as in the adaptive signal processing world unifies many well established synaptic adaptations

learning rules within the correlation based learning framework focusing on a particular correlative learning paradigm ALOPEX and presents case studies that illustrate how to use different computational tools and ALOPEX to help readers understand certain brain functions or fit specific engineering applications Network, 2004 **From Animals to Animats**

8 Stefan Schaal, 2004 New research on the adaptive behavior of natural and synthetic agents **Mobile Hybrid Intrusion Detection**

Álvaro Herrero, 2011-01-19 This monograph comprises work on network based Intrusion Detection ID that is grounded in visualisation and hybrid Artificial Intelligence AI It has led to the design of MOVICAB IDS MOBILE VISUALISATION Connectionist Agent Based IDS a novel Intrusion Detection System IDS which is comprehensively described in this book This novel IDS combines different AI paradigms to visualise network traffic for ID at packet level It is based on a dynamic Multiagent System MAS which integrates an unsupervised neural projection model and the Case Based Reasoning CBR paradigm through the use of deliberative agents that are capable of learning and evolving with the environment The proposed novel hybrid IDS provides security personnel with a synthetic intuitive snapshot of network traffic and protocol interactions This visualisation interface supports the straightforward detection of anomalous situations and their subsequent identification The performance of MOVICAB IDS was tested through a novel mutation based testing method in different real domains which entailed several attacks and anomalous situations

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