Convergence Analysis of Recurrent Neural Networks

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K.K. Tan

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Kia Fock Loe,Loo-Nin Teow

Convergence Analysis Of Recurrent Neural Networks:

Convergence Analysis of Recurrent Neural Networks Zhang Yi,2013-11-11 Since the outstanding and pioneering research work of Hopfield on recurrent neural networks RNNs in the early 80s of the last century neural networks have rekindled strong interests in scientists and researchers Recent years have recorded a remarkable advance in research and development work on RNNs both in theoretical research as well as actual applications The field of RNNs is now transforming into a complete and independent subject From theory to application from software to hardware new and exciting results are emerging day after day reflecting the keen interest RNNs have instilled in everyone from researchers to practitioners RNNs contain feedback connections among the neurons a phenomenon which has led rather naturally to RNNs being regarded as dynamical systems RNNs can be described by continuous time differential systems discrete time systems or functional differential systems and more generally in terms of non linear systems Thus RNNs have to their disposal a huge set of mathematical tools relating to dynamical system theory which has turned out to be very useful in enabling a rigorous analysis of RNNs   *Neural Networks: Computational Models and Applications* Huajin Tang,Kay Chen Tan,Zhang Yi,2007-03-12 Neural Networks Computational Models and Applications presents important theoretical and practical issues in neural networks including the learning algorithms of feed forward neural networks various dynamical properties of recurrent neural networks winner take all networks and their applications in broad manifolds of computational intelligence pattern recognition uniform approximation constrained optimization NP hard problems and image segmentation The book offers a compact insightful understanding of the broad and rapidly growing neural networks domain   **Advances in Neural Networks - ISNN 2007** Derong Liu,Shumin Fei,Zeng-Guang Hou,Huaguang Zhang,Changyin Sun,2007-07-16 This book is part of a three volume set that constitutes the refereed proceedings of the 4th International Symposium on Neural Networks ISNN 2007 held in Nanjing China in June 2007 Coverage includes neural networks for control applications robotics data mining and feature extraction chaos and synchronization support vector machines fault diagnosis detection image video processing and applications of neural networks   **Pattern Recognition and Image Analysis** Jorge S. Marques,2005-05-23 The two volume set LNCS 3522 and 3523 constitutes the refereed proceedings of the Second Iberian Conference on Pattern Recognition and Image Analysis IbPRIA 2005 held in Estoril Portugal in June 2005 The 170 revised full papers presented were carefully reviewed and selected from 292 submissions The papers are organized in topical sections on computer vision shape and matching image and video processing image and video coding face recognition human activity analysis surveillance robotics hardware architectures statistical pattern recognition syntactical pattern recognition image analysis document analysis bioinformatics medical imaging biometrics speech recognition natural language analysis and applications   **1995 IEEE International Conference on Neural Networks** ,1995   **Using Fourier convergence analysis for effective learning in max- min neural networks** Kia Fock Loe,Loo-Nin Teow,1996 Abstract Max and min

operations have interesting properties that facilitate the exchange of information between the symbolic and real valued domains As such neural networks that employ max min activation functions have been a subject of interest in recent years Since max min functions are not strictly differentiable many ad hoc learning methods for such max min neural networks have been proposed in the literature In this technical report we propose a mathematically sound learning method based on using Fourier convergence analysis to derive a gradient descent technique for max min error functions This method is then applied to two models a feedforward fuzzy neural network and a recurrent max min neural network We show how a typical fuzzy neural network model employing max min activation functions can be trained to perform function approximation its performance was found to be better than that of a conventional feedforward neural network We also propose a novel recurrent max min neural network model which is trained to perform grammatical inference as an application example Comparisons are made between this model and recurrent neural networks that use conventional sigmoidal activation fuctions such recurrent sigmoidal networks are known to be difficult to train and generalize poorly on long strings The comparisons show that our model not only performs better in terms of learning speed and generalization its final weight configuration allows a DFQ to be extracted in a straighforward manner However it has a potential drawback the minimal network size required for successful convergence grows with increasing language depth and complexity Nevertheless we are able to demonstrate that our proposed gradient descent technique does allow max min neural networks to learn effectively Our leaning method should be extensible to other neural networks that have non differentiable activation functions

Computational Intelligence And Its Applications: Evolutionary Computation, Fuzzy Logic, Neural Network And Support Vector Machine Techniques Hung Tan Nguyen,Steve Sai Ho Ling,Hak-keung Lam,2012-07-17 This book focuses on computational intelligence techniques and their applications fast growing and promising research topics that have drawn a great deal of attention from researchers over the years It brings together many different aspects of the current research on intelligence technologies such as neural networks support vector machines fuzzy logic and evolutionary computation and covers a wide range of applications from pattern recognition and system modeling to intelligent control problems and biomedical applications Fundamental concepts and essential analysis of various computational techniques are presented to offer a systematic and effective tool for better treatment of different applications and simulation and experimental results are included to illustrate the design procedure and the effectiveness of the approaches a **Advances in Neural Networks--ISNN ...** ,2005 **1995 IEEE International Conference on Neural Networks, ICNN'95** International Conference on Neural Networks 1995, Perth, Western Australia,1995 **Neural Computation** ,2003 **IEEE Transactions on Circuits and Systems** ,2005 **Pattern Recognition and Image Analysis** ,2005 **Dynamics of Continuous, Discrete & Impulsive Systems** ,2009 New Perspectives in Econometric Theory Halbert White,2004 New Perspectives in Econometric Theorycomprises specially selected papers by Halbert White which reflect his research in a

variety of related areas in econometrics heteroskedasticity of unknown form nonlinear and nonparametric regression instrumental variables and generalized method of moments estimation and measurability and limit theory In many instances results from one paper provide the foundation for or suggest new directions for research taken up by others in the collection The intent of collecting these papers together in the present volume with new commentaries by the author is to provide access both to a modern unified perspective for econometric theory and to a set of concepts and tools that will be useful to practitioners in the field As a companion to the first volume entitled Advances in Econometric Theory this latest selection of Halbert White s work will appeal to academics and researchers in econometrics and economic theory **Image to Interpretation** Melissa Terras,Paul Robertson,2006-10-19 The ink and stylus tablets discovered at the Roman fort of Vindolanda are a unique historical resource but are extremely difficult to read This book details the development of what appears to be the first system constructed to aid experts in the process of reading an ancient document exploring the use of techniques from Artificial Intelligence **Recurrent Neural Networks** Yunong Zhang,2009-10 Because of massively parallel distributed nature and very fast convergence rates recurrent neural networks RNN are widely applied to solving many problems in optimization control and robotic systems etc Hence this book investigates the following RNN models which solve some practical problems together with their corresponding analysis on stability and convergence A type of multilayer pole assignment neural networks is applied to online synthesizing and tuning feedback control systems Then a novel RNN model is established by absorbing the first order time derivative information to solve the Sylvester equation with time varying coefficient matrices A dual neural network is developed to handle quadratic programs subject to linear constraints The Lagrangian neural network and primal dual neural network are also reviewed for comparison purposes The neural networks are then exploited for real time motion planning of redundant manipulators The publication is primarily intended for researchers and postgraduates studying in RNN control and robotics **The Engineering Index Annual** ,1993 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly *Adaptive Systems in Control and Signal Processing 1995* Csilla Bányász,1995 Paperback Leading academic and industrial researchers working with adaptive systems and signal processing have been given the opportunity to exchange ideas concepts and solutions at the IFAC Symposia on Adaptive Systems in Control and Signal Processing This postprint volume contains all those papers which were presented at the 5th IFAC Symposium in Budapest in 1995 The technical program was composed of a number of invited and contributed

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