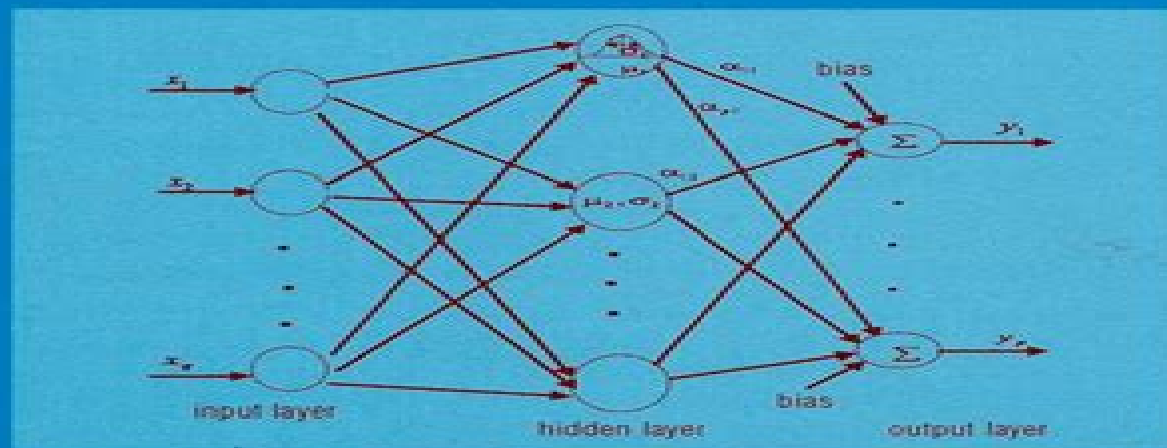


Radial Basis Function Neural Networks with Sequential Learning

MRAN and Its Applications

N. Sundararajan
P. Saratchandran
Lu Ying Wei



Radial Basis Function Neural Networks With Sequential Learning Mran And Its Applications

**Malay Kumar Kundu,Durga Prasad
Mohapatra,Amit Konar,Aruna
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Radial Basis Function Neural Networks With Sequential Learning Mran And Its Applications:

Radial Basis Function Neural Networks with Sequential Learning N. Sundararajan, P. Saratchandran, Ying Wei Lu, 1999 A review of radial basis function RBF neural networks A novel sequential learning algorithm for minimal resource allocation neural networks MRAN MRAN for function approximation MRAN for nonlinear dynamic systems MRAN for communication channel equalization Concluding remarks A outline source code for MRAN in MATLAB Bibliography Index Radial Basis Function Neural Networks With Sequential Learning, Progress In Neural Processing Ying Wei Lu, P Saratchandran, Narasimman Sundararajan, 1999-10-04 This book presents in detail the newly developed sequential learning algorithm for radial basis function neural networks which realizes a minimal network This algorithm created by the authors is referred to as Minimal Resource Allocation Networks MRAN The book describes the application of MRAN in different areas including pattern recognition time series prediction system identification control communication and signal processing Benchmark problems from these areas have been studied and MRAN is compared with other algorithms In order to make the book self contained a review of the existing theory of RBF networks and applications is given at the beginning *Radial Basis Function Networks 1* Robert J. Howlett, 2001-03-27 The Radial Basis Function RBF neural network has gained in popularity over recent years because of its rapid training and its desirable properties in classification and functional approximation applications RBF network research has focused on enhanced training algorithms and variations on the basic architecture to improve the performance of the network In addition the RBF network is proving to be a valuable tool in a diverse range of application areas for example robotics biomedical engineering and the financial sector The two volumes provide a comprehensive survey of the latest developments in this area Volume 1 covers advances in training algorithms variations on the architecture and function of the basis neurons and hybrid paradigms for example RBF learning using genetic algorithms Both volumes will prove extremely useful to practitioners in the field engineers researchers and technically accomplished managers Multi-Resolution Methods for Modeling and Control of Dynamical Systems Puneet Singla, John L. Junkins, 2008-08-01 Unifying the most important methodology in this field Multi Resolution Methods for Modeling and Control of Dynamical Systems explores existing approximation methods as well as develops new ones for the approximate solution of large scale dynamical system problems It brings together a wide set of material from classical orthogonal function **Hydroinformatics** Praveen Kumar, Mike Folk, Momcilo Markus, Jay C. Alameda, 2005-11-02 Modern hydrology is more interdisciplinary than ever Staggering amounts and varieties of information pour in from GIS and remote sensing systems every day and this information must be collected interpreted and shared efficiently Hydroinformatics Data Integrative Approaches in Computation Analysis and Modeling introduces the tools approach **ISCS 2014: Interdisciplinary Symposium on Complex Systems** Ali Sanayei, Otto E. Rössler, Ivan Zelinka, 2014-08-28 The book you hold in your hands is the outcome of the 2014 Interdisciplinary Symposium on Complex Systems held in the historical city of

Florence The book consists of 37 chapters from 4 areas of Physical Modeling of Complex Systems Evolutionary Computations Complex Biological Systems and Complex Networks All 4 parts contain contributions that give interesting point of view on complexity in different areas in science and technology The book starts with a comprehensive overview and classification of complexity problems entitled Physics in the world of ideas Complexity as Energy followed by chapters about complexity measures and physical principles its observation modeling and its applications to solving various problems including real life applications Further chapters contain recent research about evolution randomness and complexity as well as complexity in biological systems and complex networks All selected papers represent innovative ideas philosophical overviews and state of the art discussions on aspects of complexity The book will be useful as an instructional material for senior undergraduate and entry level graduate students in computer science physics applied mathematics and engineering type work in the area of complexity The book will also be valuable as a resource of knowledge for practitioners who want to apply complexity to solve real life problems in their own challenging applications

Intelligent Information and Database Systems Ngoc Thanh Nguyen, Chong-Gun Kim, Adam Janiak, 2011-04-04 The two volume set LNAI 6591 and LNCS 6592 constitutes the refereed proceedings of the Third International Conference on Intelligent Information and Database Systems ACIIDS 2011 held in Daegu Korea in April 2011 The 110 revised papers presented together with 2 keynote speeches were carefully reviewed and selected from 310 submissions The papers are thematically divided into two volumes they cover the following topics intelligent database systems data warehouses and data mining natural language processing and computational linguistics semantic Web social networks and recommendation systems technologies for intelligent information systems collaborative systems and applications e business and e commerce systems e learning systems information modeling and requirements engineering information retrieval systems intelligent agents and multi agent systems intelligent information systems intelligent internet systems intelligent optimization techniques object relational DBMS ontologies and knowledge sharing semi structured and XML database systems unified modeling language and unified processes Web services and semantic Web computer networks and communication systems

Advances in Neural Networks - ISSN 2009 Wen Yu, Haibo He, 2009-05-06 The three volume set LNCS 5551 5552 5553 constitutes the refereed proceedings of the 6th International Symposium on Neural Networks ISSN 2009 held in Wuhan China in May 2009 The 409 revised papers presented were carefully reviewed and selected from a total of 1 235 submissions The papers are organized in 20 topical sections on theoretical analysis stability time delay neural networks machine learning neural modeling decision making systems fuzzy systems and fuzzy neural networks support vector machines and kernel methods genetic algorithms clustering and classification pattern recognition intelligent control optimization robotics image processing signal processing biomedical applications fault diagnosis telecommunication sensor network and transportation systems as well as applications

Engineering Assets and Public Infrastructures in the Age of Digitalization Jayantha P. Liyanage, Joe Amadi-Echendu, Joseph

Mathew,2020-08-17 This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely relevant and practically important in the modern digital era towards safer cost effective efficient and secure engineered assets such as production and manufacturing plants process facilities civil structures equipment machinery and infrastructure It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors The professional coverage of the book includes Asset management in Industry 4 0 Standards and models Sustainable assets and processes Life cycle perspectives Smart and safer assets Applied data science Workplace safety Asset health Advances in equipment condition monitoring Critical asset processes and Innovation strategy and entrepreneurship The breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

Advances in Neural Networks Fuchun Sun,Jianwei Zhang,Jinde Cao,Wen Yu,2008-09-08 The two volume set LNCS 5263 5264 constitutes the refereed proceedings of the 5th International Symposium on Neural Networks ISNN 2008 held in Beijing China in September 2008 The 192 revised papers presented were carefully reviewed and selected from a total of 522 submissions The papers are organized in topical sections on computational neuroscience cognitive science mathematical modeling of neural systems stability and nonlinear analysis feedforward and fuzzy neural networks probabilistic methods supervised learning unsupervised learning support vector machine and kernel methods hybrid optimisation algorithms machine learning and data mining intelligent control and robotics pattern recognition audio image processing and computer vision fault diagnosis applications and implementations applications of neural networks in electronic engineering cellular neural networks and advanced control with neural networks nature inspired methods of high dimensional discrete data analysis pattern recognition and information processing using neural networks

Fully Tuned Radial Basis Function Neural Networks for Flight Control N. Sundararajan,P. Saratchandran,Yan Li,2013-03-09 Fully Tuned Radial Basis Function Neural Networks for Flight Control presents the use of the Radial Basis Function RBF neural networks for adaptive control of nonlinear systems with emphasis on flight control applications A Lyapunov synthesis approach is used to derive the tuning rules for the RBF controller parameters in order to guarantee the stability of the closed loop system Unlike previous methods that tune only the weights of the RBF network this book presents the derivation of the tuning law for tuning the centers widths and weights of the RBF network and compares the results with existing algorithms It also includes a detailed review of system identification including indirect and direct adaptive control of nonlinear systems using neural networks Fully Tuned Radial Basis Function Neural Networks for Flight Control is an excellent resource for professionals using neural adaptive controllers for flight control applications

Trajectory Planning Using Dynamics and Power Models Camilo Ordonez,Mario Harper,Jonathan T. Boylan,Emmanuel G. Collins, Jr.,2025-07-11 This book shows how to plan trajectories i e time dependent paths for autonomous robots using a dynamic model within the A framework Drawing

from optimal control's model predictive control framework the book develops a paradigm called Sampling Based Model Predictive Optimization SBMPO which generates graph trees through input sampling of a dynamic model enabling A type algorithms to find optimal trajectories The book covers various robotic platforms and tasks including manipulators lifting heavy loads mobile robots navigating steep hills energy efficient skid steered movements thermally informed space exploration planning and climbing robots in obstacle rich environments It also explores methods for updating dynamic models for robust operation and provides sample code for applying SBMPO to additional problems This resource is aimed at researchers engineers and advanced students in motion planning and control for robotic and autonomous systems

Extreme Learning Machines 2013: Algorithms and Applications Fuchen Sun, Kar-Ann Toh, Manuel Grana Romay, Kezhi Mao, 2014-07-08 In recent years ELM has emerged as a revolutionary technique of computational intelligence and has attracted considerable attentions An extreme learning machine ELM is a single layer feed forward neural network like learning system whose connections from the input layer to the hidden layer are randomly generated while the connections from the hidden layer to the output layer are learned through linear learning methods The outstanding merits of extreme learning machine ELM are its fast learning speed trivial human intervene and high scalability This book contains some selected papers from the International Conference on Extreme Learning Machine 2013 which was held in Beijing China October 15-17 2013 This conference aims to bring together the researchers and practitioners of extreme learning machine from a variety of fields including artificial intelligence biomedical engineering and bioinformatics system modelling and control and signal and image processing to promote research and discussions of learning without iterative tuning This book covers algorithms and applications of ELM It gives readers a glance of the newest developments of ELM

Soft Computing Applications Valentina Emilia Balas, Lakhmi C. Jain, Marius Mircea Balas, 2017-08-31 These two volumes constitute the Proceedings of the 7th International Workshop on Soft Computing Applications SOFA 2016 held on 24-26 August 2016 in Arad Romania This edition was organized by Aurel Vlaicu University of Arad Romania University of Belgrade Serbia in conjunction with the Institute of Computer Science Iasi Branch of the Romanian Academy IEEE Romanian Section Romanian Society of Control Engineering and Technical Informatics SRAIT Arad Section General Association of Engineers in Romania Arad Section and BTM Resources Arad The soft computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability robustness and lower costs Soft computing facilitates the combined use of fuzzy logic neurocomputing evolutionary computing and probabilistic computing leading to the concept of hybrid intelligent systems The rapid emergence of new tools and applications calls for a synergy of scientific and technological disciplines in order to reveal the great potential of soft computing in all domains The conference papers included in these proceedings published post conference were grouped into the following areas of research Methods and Applications in Electrical Engineering Knowledge

Based Technologies for Web Applications Cloud Computing Security Algorithms and Computer Networks Biomedical Applications Image Text and Signal Processing Machine Learning and Applications Business Process Management Fuzzy Applications Theory and Fuzzy Control Computational Intelligence in Education Soft Computing Fuzzy Logic in Biometrics SCFLB Soft Computing Algorithms Applied in Economy Industry and Communication Technology Modelling and Applications in Textiles The book helps to disseminate advances in selected active research directions in the field of soft computing along with current issues and applications of related topics As such it provides valuable information for professors researchers and graduate students in the area of soft computing techniques and applications *Computational Intelligence* Juan Julián Merelo,Jonathan Garibaldi,Alejandro Linares-Barranco,Kevin Warwick,Kurosh Madani,2021-07-01 This present book includes a set of selected revised and extended versions of the best papers presented at the 11th International Joint Conference on Computational Intelligence IJCCI 2019 held in Vienna Austria from 17 to 19 September 2019 The authors focus on three outstanding fields of Computational Intelligence through the selected panel namely Evolutionary Computation Fuzzy Computation and Neural Computation Besides presenting the recent advances of the selected areas the book aims to aggregate new and innovative solutions for confirmed researchers and on the other hand to provide a source of information and or inspiration for young interested researchers or learners in the ever expanding and current filed of Computational Intelligence It constitutes a precious provision of knowledge for individual researchers as well as represents a valuable sustenance for collective use in academic libraries of universities and engineering schools relating innovative techniques in various fields of applications **Supervised Learning with Complex-valued Neural Networks** Sundaram Suresh,Narasimhan Sundararajan,Ramasamy Savitha,2012-07-28 Recent advancements in the field of telecommunications medical imaging and signal processing deal with signals that are inherently time varying nonlinear and complex valued The time varying nonlinear characteristics of these signals can be effectively analyzed using artificial neural networks Furthermore to efficiently preserve the physical characteristics of these complex valued signals it is important to develop complex valued neural networks and derive their learning algorithms to represent these signals at every step of the learning process This monograph comprises a collection of new supervised learning algorithms along with novel architectures for complex valued neural networks The concepts of meta cognition equipped with a self regulated learning have been known to be the best human learning strategy In this monograph the principles of meta cognition have been introduced for complex valued neural networks in both the batch and sequential learning modes For applications where the computation time of the training process is critical a fast learning complex valued neural network called as a fully complex valued relaxation network along with its learning algorithm has been presented The presence of orthogonal decision boundaries helps complex valued neural networks to outperform real valued networks in performing classification tasks This aspect has been highlighted The performances of various complex valued neural networks are evaluated on a set of benchmark and real world function

approximation and real valued classification problems *Advanced Computing, Networking and Informatics- Volume 1*
 Malay Kumar Kundu, Durga Prasad Mohapatra, Amit Konar, Aruna Chakraborty, 2014-05-26 Advanced Computing Networking and Informatics are three distinct and mutually exclusive disciplines of knowledge with no apparent sharing overlap among them However their convergence is observed in many real world applications including cyber security internet banking healthcare sensor networks cognitive radio pervasive computing amidst many others This two volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security signal and image processing ontology and human computer interfaces HCI The two volumes together include 148 scholarly papers which have been accepted for presentation from over 640 submissions in the second International Conference on Advanced Computing Networking and Informatics 2014 held in Kolkata India during June 24-26 2014 The first volume includes innovative computing techniques and relevant research results in informatics with selective applications in pattern recognition signal image processing and HCI The second volume on the other hand demonstrates the possible scope of the computing techniques and informatics in wireless communications networking and security **Spaceflight Mechanics**
 ,2005 Spaceflight Mechanics 2004 ,2004 **Broadband Communications** Danny H.K. Tsang, Paul J. Kühn, 2013-12-01
 Broadband communications is widely recognized as one of the key technologies for building the next generation global network infrastructure to support ever increasing multimedia applications This book contains a collection of timely leading edge research papers that address some of the important issues of providing such a broadband network infrastructure Broadband Communications represents the selected proceedings of the Fifth International Conference on Broadband Communications sponsored by the International Federation for Information Processing IFIP and held in Hong Kong in November 1999 The book is organized according to the eighteen technical sessions of the conference The topics covered include internet services traffic modeling internet traffic control performance evaluation billing pricing admission policy mobile network protocols TCP/IP performance mobile network performance bandwidth allocation switching systems traffic flow control routing congestion and admission control multicast protocols network management and quality of service It will serve as an essential reference for computer scientists and practitioners

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