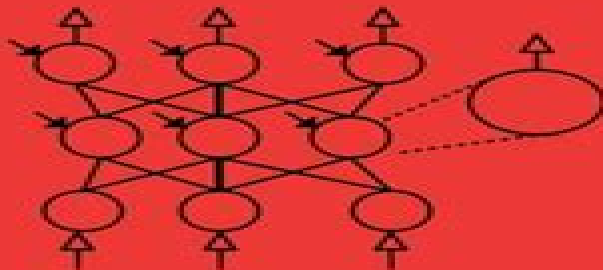


# **Lecture Notes in Control and Information Sciences 234**

**Paolo Arena, Luigi Fortuna,  
Giovanni Muscato and  
Maria G. Xibilia**

## **Neural Networks in Multidimensional Domains**

**Fundamentals and New Trends in Modelling and Control**



**Springer**

# Neural Networks In Multidimensional Domains

**Achintya Mukhopadhyay, Koushik  
Ghosh**



## **Neural Networks In Multidimensional Domains:**

*Neural Networks in Multidimensional Domains* Paolo Arena, Luigi Fortuna, Giovanni Muscato, 2014-01-15      **Neural Networks in Multidimensional Domains** Paolo Arena, 1998-04-28 In this monograph new structures of neural networks in multidimensional domains are introduced These architectures are a generalization of the Multi layer Perceptron MLP in Complex Vectorial and Hypercomplex algebra The approximation capabilities of these networks and their learning algorithms are discussed in a multidimensional context The work includes the theoretical basis to address the properties of such structures and the advantages introduced in system modelling function approximation and control Some applications referring to attractive themes in system engineering and a MATLAB software tool are also reported The appropriate background for this text is a knowledge of neural networks fundamentals The manuscript is intended as a research report but a great effort has been performed to make the subject comprehensible to graduate students in computer engineering control engineering computer sciences and related disciplines      **Complex-Valued Neural Networks: Utilizing**

**High-Dimensional Parameters** Nitta, Tohru, 2009-02-28 This book covers the current state of the art theories and applications of neural networks with high dimensional parameters Provided by publisher      *An Introduction to Neural Network Methods for Differential Equations* Neha Yadav, Anupam Yadav, Manoj Kumar, 2015-02-26 This book introduces a variety of neural network methods for solving differential equations arising in science and engineering The emphasis is placed on a deep understanding of the neural network techniques which has been presented in a mostly heuristic and intuitive manner This approach will enable the reader to understand the working efficiency and shortcomings of each neural network technique for solving differential equations The objective of this book is to provide the reader with a sound understanding of the foundations of neural networks and a comprehensive introduction to neural network methods for solving differential equations together with recent developments in the techniques and their applications The book comprises four major sections Section I consists of a brief overview of differential equations and the relevant physical problems arising in science and engineering Section II illustrates the history of neural networks starting from their beginnings in the 1940s through to the renewed interest of the 1980s A general introduction to neural networks and learning technologies is presented in Section III This section also includes the description of the multilayer perceptron and its learning methods In Section IV the different neural network methods for solving differential equations are introduced including discussion of the most recent developments in the field Advanced students and researchers in mathematics computer science and various disciplines in science and engineering will find this book a valuable reference source      **Eighth International**

**Work-Conference on Artificial and Natural Neural Networks** Joan Cabestany, 2005-05-30 We present in this volume the collection of finally accepted papers of the eighth edition of the IWANN conference International Work Conference on Artificial Neural Networks This biennial meeting focuses on the foundations theory models and applications of systems

inspired by nature neural networks fuzzy logic and evolutionary systems Since the first edition of IWANN in Granada LNCS 540 1991 the Artificial Neural Network ANN community and the domain itself have matured and evolved Under the ANN banner we find a very heterogeneous scenario with a main interest and objective to better understand nature and beings for the correct elaboration of theories models and new algorithms For scientists engineers and professionals working in the area this is a very good way to get solid and competitive applications We are facing a real revolution with the emergence of embedded intelligence in many artificial systems systems covering diverse fields industry domotics leisure healthcare So we are convinced that an enormous amount of work must be and should be still done Many pieces of the puzzle must be built and placed into their proper positions offering us new and solid theories and models necessary tools for the application and praxis of these current paradigms The above mentioned concepts were the main reason for the subtitle of the IWANN 2005 edition Computational Intelligence and Bioinspired Systems The call for papers was launched several months ago addressing the following topics 1 Mathematical and theoretical methods in computational intelligence      *Multi-dimensional characterization of neuropsychiatric disorders* Peng Wang,Jinglei Lv,Xiang Li,Shijie Zhao,2023-01-03      **Advances in Neural Networks - ISSN 2016** Long Cheng,Qingshan Liu,Andrey Ronzhin,2016-07-01 This book constitutes the refereed proceedings of the 13th International Symposium on Neural Networks ISNN 2016 held in St Petersburg Russia in July 2016 The 84 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers cover many topics of neural network related research including signal and image processing dynamical behaviors of recurrent neural networks intelligent control clustering classification modeling and forecasting evolutionary computation and cognition computation and spiking neural networks      **Artificial Neural Networks and Machine Learning - ICANN 2016** Alessandro E.P. Villa,Paolo Masulli,Antonio Javier Pons Rivero,2016-08-26 The two volume set LNCS 9886 9887 constitutes the proceedings of the 25th International Conference on Artificial Neural Networks ICANN 2016 held in Barcelona Spain in September 2016 The 121 full papers included in this volume were carefully reviewed and selected from 227 submissions They were organized in topical sections named from neurons to networks networks and dynamics higher nervous functions neuronal hardware learning foundations deep learning classifications and forecasting and recognition and navigation There are 47 short paper abstracts that are included in the back matter of the volume      Multi-dimensional Urban Sensing Using Crowdsensing Data Chaocan Xiang,Panlong Yang,Fu Xiao,Xiaochen Fan,2023-03-23 Chaocan Xiang is an Associate Professor at the College of Computer Science Chongqing University China He received his bachelor s degree and Ph D from Nanjing Institute of Communication Engineering China in 2009 and 2014 respectively He subsequently studied at the University of Michigan Ann Arbor in 2017 supervised by Prof Kang G Shin IEEE Life Fellow ACM Fellow His research interests mainly include UAVs vehicle based crowdsensing urban computing Internet of Things Artificial Intelligence and big data He has published more than 50 papers including over 20 in leading venues such as IEEE

Transactions on Mobile Computing IEEE Transactions on Parallel and Distributed Systems IEEE INFOCOM and ACM Ubicomp He has received a best paper award and a best poster award at two international conferences Panlong Yang is a full Professor at the University of Science and Technology of China He has been supported by the NSF Jiangsu through a Distinguished Young Scholarship and was honored as a CCF Distinguished Lecturer in 2015 He has published over 150 papers including 40 in CCF Class A Since 2012 he has supervised 14 master s and Ph D candidates including two excellent dissertation winners in Jiangsu Province and the PLA education system He has been supported by the National Key Development Project and NSFC projects He has nominated by ACM MobiCom 2009 for the best demo honored mention awards and won best paper awards at the IEEE MSN and MASS He has served as general chair of BigCom and TPC chair of IEEE MSN In addition he has served as a TPC member of INFOCOM CCF Class A and an associate editor of the Journal of Communication of China He is a Senior Member of the IEEE 2019 Fu Xiao received his Ph D in Computer Science and Technology from the Nanjing University of Science and Technology Nanjing China in 2007 He is currently a Professor and Dean of the School of Computer Nanjing University of Posts and Telecommunications He has authored more than 60 papers in respected conference proceedings and journals including IEEE INFOCOM ACM Mobihoc IEEE JASC IEEE ACM ToN IEEE TPDS IEEE TMC etc His main research interest is in the Internet of Things He is a member of the IEEE Computer Society and the Association for Computing Machinery Xiaochen Fan received his B S degree in Computer Science from Beijing Institute of Technology Beijing China in 2013 and his Ph D from the University of Technology Sydney NSW Australia in 2021 His research interests include mobile pervasive computing deep learning and Internet of Things IoT He has published over 25 peer reviewed papers in high quality journals and IEEE ACM international conference proceedings

*Multidimensional Signals Processing, AI Methods and Applications* Lakhmi C. Jain,Roumiana Kountcheva,Wenfeng Wang,Srikanta Patnaik,2025-02-18 This book contains new research works presented at the Third World Conference on Intelligent and 3D Technologies WCI3DT2024 organized by IRNet International Academic Communication Center held in Shanghai China during May 24 26 2024 The main topics in this volume cover contemporary parts in the area of the multidimensional signal processing based on deep learning and related applications Special attention is given to neural networks which make up the backbone of deep learning algorithms and their improvement and research works aimed at the real time interaction with unmanned vehicles machine translation cloud computing personalized product recommendation model for autonomous robots power production monitoring and control optimization and acceleration of machine learning algorithms pattern recognition building crack detection and many others

*Advances in Thermo-Fluid Engineering* Achintya Mukhopadhyay,Koushik Ghosh,2025-01-13 This book presents selected extended papers from the International Conference on Mechanical Engineering INCOM 2024 describing recent advances in thermo fluids engineering research Various topics covered in this book are design and analysis of thermal systems dynamics and control of thermal systems and processes fluid

mechanics fluid structure interaction heat transfer internal combustion engines and gas turbines multiphase flow and heat transfer The book is a valuable reference for researchers and professionals working in the fields of mechanical aerospace chemical and power engineering and also for a number of interdisciplinary areas like materials processing electronic and energy storage systems where thermal management is a key design issue

#### **Time Domain Methods in Electrodynamics**

Peter Russer,Uwe Siart,2008-09-26 This book consists of contributions given in honor of Wolfgang J R Hoefer Space and time discretizing time domain methods for electromagnetic full wave simulation have emerged as key numerical methods in computational electromagnetics Time domain methods are versatile and can be applied to the solution of a wide range of electromagnetic field problems Computing the response of an electromagnetic structure to an impulsive excitation localized in space and time provides a comprehensive characterization of the electromagnetic properties of the structure in a wide frequency range The most important methods are the Finite Difference Time Domain FDTD and the Transmission Line Matrix TLM methods The contributions represent the state of the art in dealing with time domain methods in modern engineering electrodynamics for electromagnetic modeling in general the Transmission Line Matrix TLM method the application of network concepts to electromagnetic field modeling circuit and system applications and finally with broadband devices systems and measurement techniques

#### **Computational Modeling and Simulation of Intellect: Current State and Future Perspectives**

Igel'nik, Boris,2011-05-31 This book confronts the problem of meaning by fusing together methods specific to different fields and exploring the computational efficiency and scalability of these methods Provided by publisher

**An Introduction to Hybrid Dynamical Systems** Arjan J. van der Schaft,Hans Schumacher,2007-10-03 This book is about dynamical systems that are hybrid in the sense that they contain both continuous and discrete state variables Recently there has been increased research interest in the study of the interaction between discrete and continuous dynamics The present volume provides a first attempt in book form to bring together concepts and methods dealing with hybrid systems from various areas and to look at these from a unified perspective The authors have chosen a mode of exposition that is largely based on illustrative examples rather than on the abstract theorem proof format because the systematic study of hybrid systems is still in its infancy The examples are taken from many different application areas ranging from power converters to communication protocols and from chaos to mathematical finance Subjects covered include the following definition of hybrid systems description formats existence and uniqueness of solutions special subclasses variable structure systems complementarity systems reachability and verification stability and stabilizability control design methods The book will be of interest to scientists from a wide range of disciplines including computer science control theory dynamical system theory systems modeling and simulation and operations research

*AI in Multidimensional Signals Analysis and Processing* Lakhmi C. Jain,Roumiana Kountcheva,Yingkai Liu,2025-09-26 This book presents high quality research in the field of 3D imaging technology The sixth edition of International Conference on 3D Imaging Technology 3DDIT MSP DL 2024 continues

the good traditions already established by the first five editions of the conference to provide a wide scientific forum for researchers academia and practitioners to exchange newest ideas and recent achievements in all aspects of image processing and analysis together with their contemporary applications The conference proceedings are published in two volumes The main topics of the papers comprise famous trends as 3D image representation 3D image technology 3D images and graphics and computing and 3D information technology In these proceedings special attention is paid at the 3D tensor image representation the 3D content generation technologies big data analysis and deep learning artificial intelligence the 3D image analysis and video understanding the 3D virtual and augmented reality and many related areas The first volume contains papers in 3D image processing transforms and technologies The second volume is about computing and information technologies computer images and graphics and related applications The two volumes of the book cover a wide area of the aspects of the contemporary multidimensional imaging and the related future trends from data acquisition to real world applications based on various techniques and theoretical approaches

**Connectionist Models of Neurons, Learning Processes, and Artificial Intelligence** Jose Mira, 2001-06-05 This book constitutes together with its companion LNCS 2085 the refereed proceedings of the 6th International Work Conference on Artificial and Natural Neural Networks IWANN 2001 held in Granada Spain in June 2001 The 200 revised papers presented were carefully reviewed and selected for inclusion in the proceedings The papers are organized in sections on foundations of connectionism biophysical models of neurons structural and functional models of neurons learning and other plasticity phenomena complex systems dynamics artificial intelligence and cognitive processes methodology for nets design nets simulation and implementation bio inspired systems and engineering and other applications in a variety of fields

**Soft Computing** Luigi Fortuna, Gianguido Rizzotto, Mario Lavorgna, Giuseppe Nunnari, Maria Gabriella Xibilia, Riccardo Caponetto, 2012-12-06 In the last decade new artificial intelligence methods for the modelling and control of complex systems namely neural networks fuzzy logic and probabilistic reasoning have drawn the interest of researchers and engineers Recently the advantages achievable by using combinations of these methods which have independent origin and evolution have been pointed out generating a new paradigm which is now termed soft computing This new methodology subsumes the capabilities of neural networks for modelling non linear systems and for solving classification problems the power of fuzzy logic to represent approximate or heuristic reasoning and the large capabilities of evolutionary computation for problem optimisation The book presents a clear understanding of a new type of computation system the cellular neural network CNN which has been successfully applied to the solution of many heavy computation problems mainly in the fields of image processing and complex partial differential equations CNNs computation based systems represent new opportunities for improving the soft computation toolbox The application of soft computing to complex systems and in particular to chaotic systems with the generation of chaotic dynamics by using CNN is also described These aspects are of particular interest owing to their growing interest for research and application purposes

Specific topics covered in the text include fuzzy logic control and neural networks artificial neural networks and their application in the modelling and control of dynamical systems evolutionary optimisation algorithms complex dynamics and cellular neural networks applications in urban traffic noise monitoring robot control and rapid thermal process systems

Artificial Neural Networks and Machine Learning - ICANN 2024 Michael Wand, Kristína Malinovská, Jürgen Schmidhuber, Igor V. Tetko, 2024-09-16 The ten volume set LNCS 15016 15025 constitutes the refereed proceedings of the 33rd International Conference on Artificial Neural Networks and Machine Learning ICANN 2024 held in Lugano Switzerland during September 17 20 2024 The 294 full papers and 16 short papers included in these proceedings were carefully reviewed and selected from 764 submissions The papers cover the following topics Part I theory of neural networks and machine learning novel methods in machine learning novel neural architectures neural architecture search self organization neural processes novel architectures for computer vision and fairness in machine learning Part II computer vision classification computer vision object detection computer vision security and adversarial attacks computer vision image enhancement and computer vision 3D methods Part III computer vision anomaly detection computer vision segmentation computer vision pose estimation and tracking computer vision video processing computer vision generative methods and topics in computer vision Part IV brain inspired computing cognitive and computational neuroscience explainable artificial intelligence robotics and reinforcement learning Part V graph neural networks and large language models Part VI multimodality federated learning and time series processing Part VII speech processing natural language processing and language modeling Part VIII biosignal processing in medicine and physiology and medical image processing Part IX human computer interfaces recommender systems environment and climate city planning machine learning in engineering and industry applications in finance artificial intelligence in education social network analysis artificial intelligence and music and software security Part X workshop AI in drug discovery workshop reservoir computing special session accuracy stability and robustness in deep neural networks special session neurorobotics and special session spiking neural networks *Multimedia and Network Information Systems* Kazimierz Choroś, Marek Kopel, Elżbieta Kukla, Andrzej Siemiński, 2018-09-04 These proceedings collect papers presented at the 11th International Conference on Multimedia they address hot topics such as virtual and augmented reality identity recognition video summarization intelligent audio processing accessing multilingual information and opinions video games and innovations in Web technologies Accordingly the proceedings provide a cutting edge update on work being pursued in the rapidly evolving field of Multimedia and Internet Information Systems State-space Realisations of Linear 2-D Systems with Extensions to the General ND ( $n > 2$ ) Case Krzysztof Galkowski, 2001 This book demonstrates the newly developed Elementary Operations Algorithm EOA This is a systematic method for constructing a range of state space realizations for 2 D systems The key achievements of the monograph are as follows It provides a research level introduction to the general area and undertakes a comparative critical review of previous approaches It gives a thorough coverage of the



theoretical basis of the EOA algorithm It demonstrates the effectiveness of the EOA algorithm for example through the use of algebraic symbolic computing using MAPLE as well as by comparing this method with common alternatives

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