Hidden Layers

Imput layer

Output layer

Energy

Thickness

Width

Length

$\theta_{(10mm, left)}$

$\theta_{(10mm, right)}$

$\theta_{(midle, left)}$

$\theta_{(midle, right)}$

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Matlab Code For Feedforward Backpropagation Neural Network:

 TIME SERIES FORECASTING USING NEURAL NETWORKS. EXAMPLES WITH MATLAB Cesar Perez Lopez, MATLAB has the tool Deep Leraning Toolbox that provides algorithms functions and apps to create train visualize and simulate neural networks You can perform classification regression clustering dimensionality reduction timeseries forecasting and dynamic system modeling and control Dynamic neural networks are good at timeseries prediction You can use the Neural Net Time Series app to solve different kinds of time series problems It is generally best to start with the GUI and then to use the GUI to automatically generate command line scripts Before using either method the first step is to define the problem by selecting a data set Each GUI has access to many sample data sets that you can use to experiment with the toolbox If you have a specific problem that you want to solve you can load your own data into the workspace With MATLAB is possibe to solve three different kinds of time series problems In the first type of time series problem you would like to predict future values of a time series y t from past values of that time series and past values of a second time series x t This form of prediction is called nonlinear autoregressive network with exogenous external input or NARX In the second type of time series problem there is only one series involved The future values of a time series y t are predicted only from past values of that series This form of prediction is called nonlinear autoregressive or NAR The third time series problem is similar to the first type in that two series are involved an input series predictors x t and an output series responses y t Here you want to predict values of y t from previous values of x t but without knowledge of previous values of y t This book develops methods for time series forecasting using neural networks across MATLAB *Signal and Image Processing for Biometrics* Amine Nait-Ali,Regis Fournier,2012-12-17 The aim of this book is to deal with biometrics in terms of signal and image processing methods and algorithms This will help engineers and students working in digital signal and image processing deal with the implementation of such specific algorithms It discusses numerous signal and image processing techniques that are very often used in biometric applications In particular algorithms related to hand feature extraction speech recognition 2D 3D face biometrics video surveillance and other interesting approaches are presented Moreover in some chapters Matlab codes are provided so that readers can easily reproduce some basic simulation results This book is suitable for final year undergraduate students postgraduate students engineers and researchers in the field of computer engineering and applied digital signal and image processing 1 Introduction to Biometrics Bernadette Dorizzi 2 Introduction to 2D Face Recognition Amine Nait Ali and Dalila Cherifi 3 Facial Soft Biometrics for Person Recognition Antitza Dantcheva Christelle Yemdji Petros Elia and Jean Luc Dugelay 4 Modeling Reconstruction and Tracking for Face Recognition Catherine Herold Vincent Despiegel St phane Gentric S verine Dubuisson and Isabelle Bloch 5 3D Face Recognition Mohsen Ardabilian Przemyslaw Szeptycki Di Huang and Liming Chen 6 Introduction to Iris Biometrics Kamel Aloui Amine Nait Ali R gis Fournier and Saber Naceur 7 Voice Biometrics Speaker Verification and Identification Foezur Chowdhury Sid Ahmed Selouani and Douglas O Shaughnessy

8 Introduction to Hand Biometrics R gis Fournier and Amine Nait Ali 9 Multibiometrics Romain Giot Baptiste Hemery Estelle Cherrier and Christophe Rosenberger 10 Hidden Biometrics Amine Nait Ali R gis Fournier Kamel Aloui and Noureddine Belgacem 11 Performance Evaluation of Biometric Systems Mohamad El Abed Romain Giot Baptiste Hemery Julien Mahier and Christophe Rosenberger 12 Classification Techniques for Biometrics Amel Bouchemha Ch rif Nait Hamoud Amine Nait Ali and R gis Fournier 13 Data Cryptography Islam Naveed and William Puech 14 Visual Data Protection Islam Naveed and William Puech 15 Biometrics in Forensics Guillaume Galou and Christophe Lambert **Advances in Parallel Computing Algorithms, Tools and Paradigms** D. Jude Hemanth,Tu N. Nguyen,J. Indumathi,Sairamesh Lakshmanan,2022-11-15 Recent developments in parallel computing for various fields of application are providing improved solutions for handling data These newer innovative ideas offer the technical support necessary to enhance intellectual decisions while also dealing more efficiently with the huge volumes of data currently involved This book presents the proceedings of ICAPTA 2022 the International Conference on Advances in Parallel Computing Technologies and Applications hosted as a virtual conference from Bangalore India on 27 and 28 January 2022 The aim of the conference was to provide a forum for the sharing of knowledge about various aspects of parallel computing in communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas The conference also provided a premier platform for scientists researchers practitioners and academicians to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in this field More than 300 submissions were received for the conference from which the 91 full length papers presented here were accepted after review by a panel of subject experts Topics covered include parallel computing in communication machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects Providing an overview of recent developments in the field the book will be of interest to all those whose work involves the use of parallel computing technologies **Modular Neural Networks and Type-2 Fuzzy Systems for Pattern Recognition** Patricia Melin,2011-10-25 This book describes hybrid intelligent systems using type 2 fuzzy logic and modular neural networks for pattern recognition applications Hybrid intelligent systems combine several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful pattern recognition systems Type 2 fuzzy logic is an extension of traditional type 1 fuzzy logic that enables managing higher levels of uncertainty in complex real world problems which are of particular importance in the area of pattern recognition The book is organized in three main parts each containing a group of chapters built around a similar subject The first part consists of chapters with the main theme of theory and design algorithms which are basically chapters that propose new models and concepts which are the basis for achieving intelligent pattern recognition The second part contains chapters with the main theme of using type 2 fuzzy models and modular neural networks with the aim of designing intelligent systems for complex pattern

recognition problems including iris ear face and voice recognition The third part contains chapters with the theme of evolutionary optimization of type 2 fuzzy systems and modular neural networks in the area of intelligent pattern recognition which includes the application of genetic algorithms for obtaining optimal type 2 fuzzy integration systems and ideal neural network architectures for solving problems in this area **Artificial Neural Networks** Kevin L. Priddy,Paul E. Keller,2005 This tutorial text provides the reader with an understanding of artificial neural networks ANNs and their application beginning with the biological systems which inspired them through the learning methods that have been developed and the data collection processes to the many ways ANNs are being used today The material is presented with a minimum of math although the mathematical details are included in the appendices for interested readers and with a maximum of hands on experience All specialized terms are included in a glossary The result is a highly readable text that will teach the engineer the guiding principles necessary to use and apply artificial neural networks *BIG DATA ANALYTICS: CLUSTER ANALYSIS AND PATTERN RECOGNITION. EXAMPLES WITH MATLAB* CESAR PEREZ LOPEZ,2020-05-31 Big Data Analytics examines large amounts of data to uncover hidden patterns correlations and other insights MATLAB has the tool Neural Network Toolbox Deep Learning Toolbox from version 18 that provides algorithms functions and apps to create train visualize and simulate neural networks You can perform classification regression clustering dimensionality reduction time series forecasting and dynamic system modeling and control The toolbox includes convolutional neural network and autoencoder deep learning algorithms for image classification and feature learning tasks To speed up training of large data sets you can distribute computations and data across multicore processors GPUs and computer clusters using Big Data tools Parallel Computing Toolbox Unsupervised learning algorithms including self organizing maps and competitive layers Apps for data fitting pattern recognition and clustering Preprocessing postprocessing and network visualization for improving training efficiency and assessing network performance his book develops cluster analysis and pattern recognition Advances in Applied Mechanics Deepak Kumar,Vineet Sahoo,Ashok Kumar Mandal,Karunesh Kumar Shukla,2024-06-21 This book presents select proceedings of the Indian Conference on Applied Mechanics INCAM 2022 It includes the latest research on solid mechanics impact mechanics fluid mechanics biomechanics materials science and design engineering Additional topics covered in this book are additive and advanced manufacturing mechanics of energetic materials mechanics in agriculture flight and drone mechanics mathematical methods in mechanics and precision metrology The book is useful for researchers and academics from a broad range of engineering disciplines such as civil engineering mechanical engineering aerospace engineering automotive engineering biomedical engineering and material science Optimization of Power System Problems Mahmoud Pesaran Hajiabbas,Behnam Mohammadi-Ivatloo,2020-01-06 This book presents integrated optimization methods and algorithms for power system problems along with their codes in MATLAB Providing a reliable and secure power and energy system is one of the main challenges of the new era Due to the nonlinear multi objective nature of these problems

the traditional methods are not suitable approaches for solving large scale power system operation dilemmas The integration of optimization algorithms into power systems has been discussed in several textbooks but this is the first to include the integration methods and the developed codes As such it is a useful resource for undergraduate and graduate students researchers and engineers trying to solve power and energy optimization problems using modern technical and intelligent systems based on theory and application case studies It is expected that readers have a basic mathematical background

Soft Computing for Hybrid Intelligent Systems Oscar Castillo,Patricia Melin,Witold Pedrycz,2008-09-10 We describe in this book new methods and applications of hybrid intelligent systems using soft computing techniques Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and evolutionary al rithms which can be used to produce powerful hybrid intelligent systems The book is organized in five main parts which contain a group of papers around a similar subject The first part consists of papers with the main theme of intelligent control which are basically papers that use hybrid systems to solve particular problems of control The second part contains papers with the main theme of pattern recognition which are basically papers using soft computing techniques for achieving pattern recognition in different applications The third part contains papers with the themes of intelligent agents and social systems which are papers that apply the ideas of agents and social behavior to solve real world problems The fourth part contains papers that deal with the hardware implementation of intelligent systems for solving particular problems The fifth part contains papers that deal with modeling simulation and optimization for real world applications *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 *First International Conference on*

Artificial Intelligence and Cognitive Computing Raju Surampudi Bapi,Koppula Srinivas Rao,Munaga V. N. K. Prasad,2018-11-04 This book presents original research works by researchers engineers and practitioners in the field of artificial intelligence and cognitive computing The book is divided into two parts the first of which focuses on artificial intelligence AI knowledge representation planning learning scheduling perception reactive AI systems evolutionary computing and other topics related to intelligent systems and computational intelligence In turn the second part focuses on cognitive computing cognitive science and cognitive informatics It also discusses applications of cognitive computing in medical informatics structural health monitoring computational intelligence intelligent control systems bio informatics smart manufacturing smart grids image video processing video analytics medical image and signal processing and knowledge engineering as well as related applications **MATLAB Machine Learning Recipes** Michael Paluszek,Stephanie Thomas,2019-01-31 Harness the power of MATLAB to resolve a wide range of machine learning challenges This book provides a series of examples of technologies critical to machine learning Each example solves a real world problem All code in MATLAB Machine Learning Recipes A Problem Solution Approach is executable The toolbox that the code uses provides a complete set of functions needed to implement all aspects of machine learning Authors Michael Paluszek and Stephanie Thomas show how all of these technologies allow the reader to build sophisticated applications to solve problems with pattern recognition autonomous driving expert systems and much more What you ll learn How to write code for machine learning adaptive control and estimation using MATLAB How these three areas complement each other How these three areas are needed for robust machine learning applications How to use MATLAB graphics and visualization tools for machine learning How to code real world examples in MATLAB for major applications of machine learning in big data Who is this book for The primary audiences are engineers data scientists and students wanting a comprehensive and code cookbook rich in examples on machine learning using MATLAB MATLAB Machine Learning Michael Paluszek,Stephanie Thomas,2016-12-28 This book is a comprehensive guide to machine learning with worked examples in MATLAB It starts with an overview of the history of Artificial Intelligence and automatic control and how the field of machine learning grew from these It provides descriptions of all major areas in machine learning The book reviews commercially available packages for machine learning and shows how they fit into the field The book then shows how MATLAB can be used to solve machine learning problems and how MATLAB graphics can enhance the programmer s understanding of the results and help users of their software grasp the results Machine Learning can be very mathematical The mathematics for each area is introduced in a clear and concise form so that even casual readers can understand the math Readers from all areas of engineering will see connections to what they know and will learn new technology The book then providescomplete solutions in MATLAB for several important problems in machine learning including face identification autonomous driving and data classification Full source code is provided for all of the examples and applications in the book What you ll learn An overview of the field of

machine learning Commercial and open source packages in MATLAB How to use MATLAB for programming and building machine learning applications MATLAB graphics for machine learning Practical real world examples in MATLAB for major applications of machine learning in big data Who is this book for The primary audiences are engineers and engineering students wanting a comprehensive and practical introduction to machine learning   **AI Foundations and Applications with MATLAB** Ying Bai,2025-09-03 This textbook provides fundamentals and practical skills on AI foundations and applications with two MATLAB programming modes It includes twelve chapters with detailed introductions for the foundation knowledge of AI structures key components and hands on AI projects implemented in various applications in our world Unlike other AI related textbooks in which the Python is used the MATLAB is adopted in this textbook The Python programming mode builds AI projects with functions involving huge blocks of codes which is a difficult task However in MATLAB mode provides two programming styles Apps and function library The Apps graphical user interface GUIs assist users especially the beginners to learn and build AI projects with no coding lines quickly and easily To compensate the possible code hiding in Apps MATLAB provides a Converting Codes function to allow users to convert those Apps to the related codes It enables users to have a clear picture between Apps and detailed coding process The function library enables users to build AI projects with detailed codes This textbook also includes homework questions exercises lab projects and case studies This book is designed as a textbook for advanced level students in Computer Science or Computer Engineering Also AI engineers who have an interest in learning and developing professional AI applications to solve real problems in the world will want to purchase this book   **A First Course in Fuzzy and Neural Control** Hung T. Nguyen,Nadipuram R. Prasad,Carol L. Walker,Elbert A. Walker,2002-11-12 Although the use of fuzzy control methods has grown nearly to the level of classical control the true understanding of fuzzy control lags seriously behind Moreover most engineers are well versed in either traditional control or in fuzzy control rarely both Each has applications for which it is better suited but without a good understanding of both engineers cannot make a sound determination of which technique to use for a given situation A First Course in Fuzzy and Neural Control is designed to build the foundation needed to make those decisions It begins with an introduction to standard control theory then makes a smooth transition to complex problems that require innovative fuzzy neural and fuzzy neural techniques For each method the authors clearly answer the questions What is this new control method Why is it needed How is it implemented Real world examples exercises and ideas for student projects reinforce the concepts presented Developed from lecture notes for a highly successful course titled The Fundamentals of Soft Computing the text is written in the same reader friendly style as the authors popular A First Course in Fuzzy Logic text A First Course in Fuzzy and Neural Control requires only a basic background in mathematics and engineering and does not overwhelm students with unnecessary material but serves to motivate them toward more advanced studies   **Biologically Rationalized Computing Techniques For Image Processing Applications** Jude Hemanth,Valentina Emilia Balas,2017-08-15 This book introduces

readers to innovative bio inspired computing techniques for image processing applications It demonstrates how a significant drawback of image processing not providing the simultaneous benefits of high accuracy and less complexity can be overcome proposing bio inspired methodologies to help do so Besides computing techniques the book also sheds light on the various application areas related to image processing and weighs the pros and cons of specific methodologies Even though several such methodologies are available most of them do not provide the simultaneous benefits of high accuracy and less complexity which explains their low usage in connection with practical imaging applications such as the medical scenario Lastly the book illustrates the methodologies in detail making it suitable for newcomers to the field and advanced researchers alike

Machine Learning in Earth, Environmental and Planetary Sciences Hossein Bonakdari,Isa Ebtehaj,Joseph D. Ladouceur,2023-07-03 Machine Learning in Earth Environmental and Planetary Sciences Theoretical and Practical Applications is a practical guide on implementing different variety of extreme learning machine algorithms to Earth and environmental data The book provides guided examples using real world data for numerous novel and mathematically detailed machine learning techniques that can be applied in Earth environmental and planetary sciences including detailed MATLAB coding coupled with line by line descriptions of the advantages and limitations of each method The book also presents common postprocessing techniques required for correct data interpretation This book provides students academics and researchers with detailed understanding of how machine learning algorithms can be applied to solve real case problems how to prepare data and how to interpret the results Describes how to develop different schemes of machine learning techniques and apply to Earth environmental and planetary data Provides detailed guided line by line examples using real world data including the appropriate MATLAB codes Includes numerous figures illustrations and tables to help readers better understand the concepts covered **Advances in Data and Information Sciences** Mohan L. Kolhe,Munesh C. Trivedi,Shailesh Tiwari,Vikash Kumar Singh,2018-06-28 The book gathers a collection of high quality peer reviewed research papers presented at the International Conference on Data and Information Systems ICDIS 2017 held at Indira Gandhi National Tribal University India from November 3 to 4 2017 The book covers all aspects of computational sciences and information security In chapters written by leading researchers developers and practitioner from academia and industry it highlights the latest developments and technical solutions helping readers from the computer industry capitalize on key advances in next generation computer and communication technology **Recent Advances in Smart Manufacturing and Materials** Rajeev Agrawal,Jinesh Kumar Jain,Vinod Singh Yadav,Vijaya Kumar Manupati,Leonilde Varela,2021-07-22 This book presents select proceedings of the International Conference on Evolution in Manufacturing ICEM 2020 and examines a range of areas including internet of things for cyber manufacturing data analytics for manufacturing systems and processes and materials The topics covered include modeling simulation and decision making in cyber physical systems for supporting engineering and production management innovative approach in materials development biomaterial applications and

advancement in manufacturing and material technologies The book also discusses sustainability in manufacturing and supply chain management including circular economy The book will be a valuable reference for beginners researchers and professionals interested in smart manufacturing in engineering production management and materials technology

Emerging Sensor Technology in Agriculture Sigfredo Fuentes,Carlos Poblete-Echeverria,2020-11-25 Digital agriculture is gaining traction among scientists implementing different new and emerging sensor technologies to monitor complex soil plant atmosphere interactions in an accurate cost effective and user friendly manner This book presents some of the latest advances in this emerging area of research The diversity of applications in which digital agriculture can make an important difference in day to day farming decision making makes this discipline an important focus of research internationally

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