

D. T. PHAM • X. LIU

Neural Networks for Identification, Prediction and Control



Springer

Neural Networks For Identification Prediction And Control

Clemens Wendtner



Neural Networks For Identification Prediction And Control:

Neural Networks for Identification, Prediction and Control Duc T. Pham, Xing Liu, 2012-12-06 In recent years there has been a growing interest in applying neural networks to dynamic systems identification modelling prediction and control Neural networks are computing systems characterised by the ability to learn from examples rather than having to be programmed in a conventional sense Their use enables the behaviour of complex systems to be modelled and predicted and accurate control to be achieved through training without a priori information about the systems structures or parameters This book describes examples of applications of neural networks In modelling prediction and control The topics covered include identification of general linear and non linear processes forecasting of river levels stock market prices and currency exchange rates and control of a time delayed plant and a two joint robot These applications employ the major types of neural networks and learning algorithms The neural network types considered in detail are the multilayer perceptron MLP the Elman and Jordan networks and the Group Method of Data Handling GMDH network In addition cerebellar model articulation controller CMAC networks and neuromorphic fuzzy logic systems are also presented The main learning algorithm adopted in the applications is the standard backpropagation BP algorithm Widrow Hoff learning dynamic BP and evolutionary learning are also described

Neural Networks for Identification, Prediction and Control Duc Pham, Xing Liu, 2014-09-01

Intelligent Production Machines and Systems - First I*PROMS Virtual Conference Duc T. Pham, 2005-12-09 The 2005 Virtual International Conference on IPROMS took place on the Internet between 4 and 15 July 2005 IPROMS 2005 was an outstanding success During the Conference some 4168 registered delegates and guests from 71 countries participated in the Conference making it a truly global phenomenon This book contains the Proceedings of IPROMS 2005 The 107 peer reviewed technical papers presented at the Conference have been grouped into twelve sections the last three featuring contributions selected for IPROMS 2005 by Special Sessions chairmen Collaborative and Responsive Manufacturing Systems Concurrent Engineering E manufacturing E business and Virtual Enterprises Intelligent Automation Systems Intelligent Decision Support Systems Intelligent Design Systems Intelligent Planning and Scheduling Systems Mechatronics Reconfigurable Manufacturing Systems Tangible Acoustic Interfaces Tai Chi Innovative Production Machines and Systems Intelligent and Competitive Manufacturing Engineering

Lernfähige intelligente Produktionsregelung Tilo Hamann, 2008

Die Vernetzung sozialer Einheiten Christina Stoica, 2013-04-17 Dieses Buch untersucht die Technik künstlicher Neuroner Netze ihre Kopplung mit anderen Programmen genetische Algorithmen Zellularautomaten Expertensysteme und die Anwendung auf sozialwissenschaftliche Fragestellungen

Automation and Control Aleksandar Rodic, 2009-12-01 The present edited book is a collection of 18 chapters written by internationally recognized experts and well known professionals of the field Chapters contribute to diverse facets of automation and control The volume is organized in four parts according to the main subjects regarding the recent advances in this field of engineering The first thematic part

of the book is devoted to automation This includes solving of assembly line balancing problem and design of software architecture for cognitive assembling in production systems The second part of the book concerns different aspects of modelling and control This includes a study on modelling pollutant emission of diesel engine development of a PLC program obtained from DEVS model control networks for digital home automatic control of temperature and flow in heat exchanger and non linear analysis and design of phase locked loops The third part addresses issues of parameter estimation and filter design including methods for parameters estimation control and design of the wave digital filters The fourth part presents new results in the intelligent control This includes building a neural PDF strategy for hydroelectric saturation simulator intelligent network system for process control neural generalized predictive control for industrial processes intelligent system for forecasting diagnosis and decision making based on neural networks and self organizing maps development of a smart semantic middleware for the Internet development of appropriate AI methods in fault tolerant control building expert system in rotary railcar dumpers expert system for plant asset management and building of a image retrieval system in heterogeneous database The content of this thematic book admirably reflects the complementary aspects of theory and practice which have taken place in the last years Certainly the content of this book will serve as a valuable overview of theoretical and practical methods in control and automation to those who deal with engineering and research in this field of activities

Applied Intelligent Systems John Fulcher, 2012-10-16 Humans have always been hopeless at predicting the future most people now generally agree that the margin of viability in prophecy appears to be 1 ten years Even sophisticated research endeavours in this arena tend to go 2 off the rails after a decade or so The computer industry has been particularly prone to bold and often way off the mark predictions for example I think there is a world market for maybe five computers Thomas J Watson IBM Chairman 1943 I have traveled the length and breadth of this country and talked with the best people and I can assure you that data processing is a fad that won't last out the year Prentice Hall Editor 1957 There is no reason why anyone would want a computer in their home Ken Olsen founder of DEC 1977 and 640K ought to be enough for anybody Bill Gates CEO Microsoft 1981 3 The field of Artificial Intelligence right from its inception has been particularly plagued by bold prediction syndrome and often by leading practitioners who should know better AI has received a lot of bad press 4 over the decades and a lot of it deservedly so How often have we groaned in despair at the latest by the year 20xx we will all have insert your own particular hobby horse here e g

Soft Computing and Fractal Theory for Intelligent Manufacturing Oscar Castillo, Patricia Melin, 2012-08-11 We describe in this book new methods for intelligent manufacturing using soft computing techniques and fractal theory Soft Computing SC consists of several computing paradigms including fuzzy logic neural networks and genetic algorithms which can be used to produce powerful hybrid intelligent systems Fractal theory provides us with the mathematical tools to understand the geometrical complexity of natural objects and can be used for identification and modeling purposes Combining SC techniques with fractal theory we can take advantage of the intelligence provided by

the computer methods and also take advantage of the descriptive power of the fractal mathematical tools Industrial manufacturing systems can be considered as non linear dynamical systems and as a consequence can have highly complex dynamic behaviors For this reason the need for computational intelligence in these manufacturing systems has now been well recognized We consider in this book the concept of intelligent manufacturing as the application of soft computing techniques and fractal theory for achieving the goals of manufacturing which are production planning and control monitoring and diagnosis of faults and automated quality control As a prelude we provide a brief overview of the existing methodologies in Soft Computing We then describe our own approach in dealing with the problems in achieving intelligent manufacturing Our particular point of view is that to really achieve intelligent manufacturing in real world applications we need to use SC techniques and fractal theory

Verfahren zur Identifikation nichtlinearer dynamischer Getriebemodelle Nowoisky, Sebastian, 2016-11-18 Immer komplexere Fahrzeuge erreichen den Kunden Der Zielkonflikt zwischen Komfort Sportlichkeit und geringerem Ressourcenverbrauch ist dank der Automatisierung des Triebstrangs möglich Mit Entwicklungszyklen von ca drei Jahren für ein Fahrzeug und einer globalen Arbeitsteilung ist die modellbasierte Entwicklung heute Stand der Technik Die Parameter der Getriebemodelle werden aus Vorwissen adaptiert oder durch aufwendige Komponententests bestimmt Ein Getriebemodell zu parametrieren ist eine zentrale Herausforderung für die Entwicklungsingenieure da nur eine begrenzte Anzahl an Prototypenfahrzeugen und Komponenten zur Verfügung stehen Diesen skizzierten Prozess durch einen geeigneten Ansatz eines Triebstrangmodells für die Software und Funktionsentwicklung zu unterstützen ist eine Problemstellung dieser Arbeit Zusätzlich wird die Frage beantwortet wie der Ablauf bestehend aus Versuchsdurchführung und modernen Identifikationsmethoden mit Hilfe eines Getriebeprüfstands strukturiert werden kann In diesem Beitrag werden Getriebeparameter wie Massenträgheit und Reibmomente durch strukturierte rekurrente neuronale Netze SRNN an einem automatisierten Handschaltgetriebe identifiziert Aufgrund nicht zu vernachlässigender Temperatureinflüsse an den Lagerstellen wird das SRNN erweitert um eine zweidimensionale Nichtlinearität abbilden zu können Die Kupplungskapazität das Verzahnungsspiel und weitere Parameter werden durch automatisierte Versuche am Getriebeprüfstand bestimmt Abschließend werden exemplarische Versuche in der Simulation am Beispiel eines Doppelkupplungsgetriebes angewandt um die Generalisierbarkeit der Methodik zu demonstrieren Modern cars are increasingly complex when they reach their customers The automation of the powertrain makes it possible to balance the main development targets dynamic comfort and reduced consumption With an average development cycle of approximately 3 years for a vehicle and a global division of labor the model based development is state of the art The parameter of new gearbox models are based on adapted models from the past and validated parameterized component tests It is the key challenge for development engineers to parametrize a transmission model since the number of prototype test and component tests are limited and its goal it is to reduce this number further In addition it is shown how to validate transmission test bench experiments and modern identification

methods Furthermore how it can be structured with a gearbox test bench To support this software and function development process as outlined before an drivetrain model approach is suggested In addition the sequence of used transmission test bench experiments in combination with modern identification methods is structured In this thesis transmission parameters such as inertia and friction torques are going to be identified on an automated manual transmission by Structured Recurrent Neural Networks SRNN Due to significant effects of temperature at the bearing places the SRNN is extended to ensure the mapping of a two dimensional non linearity Furthermore the clutch capacity is determined by an automated test on transmission test bench Finally to demonstrate the generalizability of the methodology exemplary experiments trials where performed in the simulation on a dual clutch transmission

Intelligent Technologies--theory and Applications Peter Sincak,2002 Annotation Intelligent Technologies including neural network evolutionary computations fuzzy approach and mainly hybrid approaches are very promising tools to build intelligent technologies in general The progress of each theory or application is provided by a number of various theoretical as well as applicational experiments Machine intelligence is the only alternative how to increase the level of technology to make technology more human centred and more effective for society This book includes theoretical as well as applicational papers in the field of neural networks fuzzy systems and mainly evolutionary computations which application potential was increased by enormous progress in computer power Hybrid technologies are still progressing and are trying to make some more applications with their ability to learn and process fuzzy information Neurogenetic systems are very interesting approach to make systems re configurable and on line systems for real world applications The book is presenting papers from Japan USA Hungary Poland Germany Finland France Slovakia United Kingdom Czech Republic and some other countries This publication provides the latest state of the art in the field and could be contributed to theory and applications in the machine intelligence tools and their wide application potential in current and future technologies within the Information Society

Neural Information Processing: Research and Development Jagath Chandana Rajapakse,Lipo Wang,2012-12-06 The field of neural information processing has two main objects investigation into the functioning of biological neural networks and use of artificial neural networks to solve real world problems Even before the reincarnation of the field of artificial neural networks in mid nineteen eighties researchers have attempted to explore the engineering of human brain function After the reincarnation we have seen an emergence of a large number of neural network models and their successful applications to solve real world problems This volume presents a collection of recent research and developments in the field of neural information processing The book is organized in three Parts i e 1 architectures 2 learning algorithms and 3 applications Artificial neural networks consist of simple processing elements called neurons which are connected by weights The number of neurons and how they are connected to each other defines the architecture of a particular neural network Part 1 of the book has nine chapters demonstrating some of recent neural network architectures derived either to mimic aspects of human brain function or applied in some real world problems

Muresan provides a simple neural network model based on spiking neurons that make use of shunting inhibition which is capable of resisting small scale changes of stimulus Hoshino and Zheng simulate a neural network of the auditory cortex to investigate neural basis for encoding and perception of vowel sounds *Power Electronics Handbook* Muhammad H. Rashid, 2011-01-13 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency It has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications Designed to appeal to a new generation of engineering professionals *Power Electronics Handbook 3rd Edition* features four new chapters covering renewable energy energy transmission energy storage as well as an introduction to Distributed and Cogeneration DCG technology including gas turbines gensets microturbines wind turbines variable speed generators photovoltaics and fuel cells has been gaining momentum for quite some time now smart grid technology With this book readers should be able to provide technical design leadership on assigned power electronics design projects and lead the design from the concept to production involving significant scope and complexity Contains 45 chapters covering all aspects of power electronics and its applications Three new chapters now including coverage Energy Sources Energy Storage and Electric Power Transmission Contributions from more than fifty leading experts spanning twelve different countries **Big**

Data: Conceptual Analysis and Applications Michael Z. Zgurovsky, Yuriy P. Zaychenko, 2019-03-20 The book is devoted to the analysis of big data in order to extract from these data hidden patterns necessary for making decisions about the rational behavior of complex systems with the different nature that generate this data To solve these problems a group of new methods and tools is used based on the self organization of computational processes the use of crisp and fuzzy cluster analysis methods hybrid neural fuzzy networks and others The book solves various practical problems In particular for the tasks of 3D image recognition and automatic speech recognition large scale neural networks with applications for Deep Learning systems were used Application of hybrid neuro fuzzy networks for analyzing stock markets was presented The analysis of big historical economic and physical data revealed the hidden Fibonacci pattern about the course of systemic world conflicts and their connection with the Kondratieff big economic cycles and the Schwabe Wolf solar activity cycles The book is useful for system analysts and practitioners working with complex systems in various spheres of human activity

Artificial Neural Networks - ICANN 2001 Georg Dorffner, 2001-08-13 This book constitutes the refereed proceedings of the International Conference on Artificial Neural Networks ICANN 2001 held in Vienna Austria in August 2001 The 171 revised papers presented together with three invited contributions were carefully reviewed and selected from around 300 submissions The papers are organized in topical sections on data analysis and pattern recognition theory kernel methods

topographic mapping independent component analysis signal processing time series processing agent based economic modeling selforganization and dynamical systems robotics and control vision and image processing computational neuroscience and connectionist and cognitive science **Formal Methods in Manufacturing Systems: Recent Advances** Li, Zhiwu, 2013-05-31 Evolving technologies in mass production have led to the development of advanced techniques in the field of manufacturing These technologies can quickly and effectively respond to various market changes necessitating processes that focus on small batches of multiple products rather than large single product lines Formal Methods in Manufacturing Systems Recent Advances explores this shifting paradigm through an investigation of contemporary manufacturing techniques and formal methodologies that strive to solve a variety of issues arising from a market environment that increasingly favors flexible systems over traditional ones This book will be of particular use to industrial engineers and students of the field who require a detailed understanding of current trends and developments in manufacturing tools This book is part of the Advances in Civil and Industrial Engineering series collection Computer and Information Sciences -- ISCIS 2003 Adnan Yazici, Cevat Sener, 2003-10-24 This book constitutes the refereed proceedings of the 18th International Symposium on Computer and Information Sciences ISCIS 2003 held in Antalya Turkey in November 2003 The 135 revised papers presented together with 2 invited papers were carefully reviewed and selected from over 360 submissions The papers are organized in topical sections on architectures and systems theoretical computer science databases and information retrieval e commerce graphics and computer vision intelligent systems and robotics multimedia networks and security parallel and distributed computing soft computing and software engineering *Type-2 Fuzzy Logic: Theory and Applications* Oscar Castillo, Patricia Melin, 2008-02-20 This book describes new methods for building intelligent systems using type 2 fuzzy logic and soft computing SC techniques The authors extend the use of fuzzy logic to a higher order which is called type 2 fuzzy logic Combining type 2 fuzzy logic with traditional SC techniques we can build powerful hybrid intelligent systems that can use the advantages that each technique offers This book is intended to be a major reference tool and can be used as a textbook *Modelling and Estimation Strategies for Fault Diagnosis of Non-Linear Systems* Marcin Witczak, 2007-07-08 This monograph presents a variety of techniques that can be used for designing robust fault diagnosis schemes for non linear systems The introductory part of the book is of a tutorial value and can be perceived as a good starting point for the new comers to this field Subsequently advanced robust observer structures are presented Parameter estimation based techniques are discussed as well A particular attention is drawn to experimental design for fault diagnosis The book also presents a number of robust soft computing approaches utilizing evolutionary algorithms and neural networks All approaches described in this book are illustrated by practical applications Smart Inspection Systems Duc T. Pham, R J Alcock, 2002-12-09 Smart Inspection Systems Techniques and Applications of Intelligent Vision will enable engineers to understand the various stages of automated visual inspection AVI and how artificial intelligence can be

incorporated into each stage to create smart inspection systems The book contains many examples that illustrate and explain the application of conventional and artificial intelligence techniques in AVI The text covers the whole AVI process from illumination image enhancement segmentation and feature extraction through to classification and includes case studies of implemented AVI systems as well as reviews of commercially available inspection systems Each chapter concludes with exercises This book will be of interest to users and developers of commercial industrial inspection systems as well as researchers in the fields of machine vision artificial intelligence and advanced manufacturing engineering

Fault Diagnosis Józef Korbicz, Jan M. Koscielny, Zdzisław Kowalczyk, Wojciech Cholewa, 2012-12-06 All real systems in nature physical biological and engineering ones can malfunction and fail due to faults in their components Logically the chances for malfunctions increase with the systems complexity The complexity of engineering systems is permanently growing due to their growing size and the degree of automation and accordingly increasing is the danger of failing and aggravating their impact for man and the environment Therefore in the design and operation of engineering systems increased attention has to be paid to reliability safety and fault tolerance But it is obvious that compared to the high standard of perfection that nature has achieved with its self healing and self repairing capabilities in complex biological organisms fault management in engineering systems is far behind the standards of their technological achievements it is still in its infancy and tremendous work is left to be done In technical control systems defects may happen in sensors actuators components of the controlled object the plant or in the hardware or software of the control framework Such defects in the components may develop into a failure of the whole system This effect can easily be amplified by the closed loop but the closed loop may also hide an incipient fault from being observed until a situation has occurred in which the failing of the whole system has become unavoidable

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