Rolf Isermann Marco Münchhof

Identification of Dynamic Systems

An Introduction with Applications



Smain Femmam

Identification of Dynamic Systems Rolf Isermann, Marco Münchhof, 2010-11-22 Precise dynamic models of processes are required for many applications ranging from control engineering to the natural sciences and economics Frequently such precise models cannot be derived using theoretical considerations alone Therefore they must be determined experimentally This book treats the determination of dynamic models based on measurements taken at the process which is known as system identification or process identification Both offline and online methods are presented i e methods that post process the measured data as well as methods that provide models during the measurement The book is theory oriented and application oriented and most methods covered have been used successfully in practical applications for many different processes Illustrative examples in this book with real measured data range from hydraulic and electric actuators up to combustion engines Real experimental data is also provided on the Springer webpage allowing readers to gather their first experience with the methods presented in this book Among others the book covers the following subjects determination of the non parametric frequency response fast Fourier transform correlation analysis parameter estimation with a focus on the method of Least Squares and modifications identification of time variant processes identification in closed loop identification of continuous time processes and subspace methods Some methods for nonlinear system identification are also considered such as the Extended Kalman filter and neural networks The different methods are compared by using a real three mass oscillator process a model of a drive train For many identification methods hints for the practical implementation and application are provided The book is intended to meet the needs of students and practicing engineers working in research and development design and manufacturing Guaranteed Verification of Dynamic Systems Schwab, Stefan, 2022-03-15 This work introduces a new specification and verification approach for dynamic systems. The introduced approach is able to provide type II error free results by definition i e there are no hidden faults in the verification result The approach is based on Kaucher interval arithmetic to enclose the measurement in a bounded error sense The developed methods are proven mathematically to provide a reliable verification for a wide class of safety critical systems Flottendatenbasierte physikalische Routenenergiebedarfsprognose Straub, Tobias Sebastian, 2024-08-02 Um auf die Klimaziele mit energetisch planenden Funktionen in Elektrofahrzeugen hinzuarbeiten ist entlang geplanter Strecken eine pr zise Energiebedarfsprognose unabdingbar welche relevante Einfl sse separat quantifiziert Diese Arbeit zeigt dazu eine neue Fahrprofilprognose welche die Energiefl sse beim Fahren und Rekuperieren auf beliebigen Streckenabschnitten mit nur 5 Parametern erfasst Anwendung findet das Modell in einer Reichweitenprognose sowie einer zeitlichen Routenoptimierung To work towards climate goals with energetic planning functions in electric vehicles a precise energy demand forecast along planned routes is essential which separately quantifies relevant influences For that this work shows a new driving profile

prediction which models energy flows while driving and recuperating on any link of a route with just 5 parameters. This work shows example applications of the model range forecasting and temporal route optimization The Dynamics of Vehicles on Roads and Tracks Martin Rosenberger, Manfred Plöchl, Klaus Six, Johannes Edelmann, 2016-03-30 The IAVSD Symposium is the leading international conference in the field of ground vehicle dynamics bringing together scientists and engineers from academia and industry The biennial IAVSD symposia have been held in internationally renowned locations In 2015 the 24th Symposium of the International Association for Vehicle System Dynamics IAVSD Modelling and Control of Dynamic Systems Using Gaussian Process Models Juš Kocijan, 2015-11-21 This monograph opens up new horizons for engineers and researchers in academia and in industry dealing with or interested in new developments in the field of system identification and control It emphasizes guidelines for working solutions and practical advice for their implementation rather than the theoretical background of Gaussian process GP models The book demonstrates the potential of this recent development in probabilistic machine learning methods and gives the reader an intuitive understanding of the topic The current state of the art is treated along with possible future directions for research Systems control design relies on mathematical models and these may be developed from measurement data This process of system identification when based on GP models can play an integral part of control design in data based control and its description as such is an essential aspect of the text The background of GP regression is introduced first with system identification and incorporation of prior knowledge then leading into full blown control The book is illustrated by extensive use of examples line drawings and graphical presentation of computer simulation results and plant measurements The research results presented are applied in real life case studies drawn from successful applications including a gas liquid separator control urban traffic signal modelling and reconstruction and prediction of atmospheric ozone concentration A MATLAB toolbox for identification and simulation of dynamic GP models Advanced Control Methods for Industrial Processes Pablo A. López-Pérez, Omar Jacobo is provided for download Santos Sánchez, Liliam Rodríguez Guerrero, Patricio Ordaz, 2025-06-09 A detailed introduction to mathematical models for new and established control engineers Control engineering is a system that helps us understand electrical physical chemical and biochemical systems through the use of mathematical modeling using inputs outputs and simulations These experimental platforms are implemented in most systems of modern advanced control engineering Advanced Control Methods for Industrial Processes provides a solid grounding in traditional control techniques It emphasizes practical application methods alongside the underlying theory and core instrumentation Each chapter discusses the full profile of the technology covered from the field layer and control layer to its implementation It also includes the interfaces for advanced control systems between controllers and systems theory between different layers and between operators systems Through an emphasis on the practical issues of components devices and hardware circuits the book offers working principles and operation mechanisms that allow an engineer to put theory into practice for the advanced control techniques Advanced Control

Methods for Industrial Processes readers will also find A practical overview on advanced control methods applied to real time and in silico systems Specific parameters install procedures calibration and configuration methodologies necessary to conduct the relevant models Clear insights into the necessary mathematical models Tutorial material to facilitate the understanding of core concepts Advanced Control Methods for Industrial Processes is an ideal companion for process engineers control engineers and chemists in industry Soft Sensors for Monitoring and Control of Industrial Processes Luigi Fortuna, Salvatore Graziani, Alessandro Rizzo, Maria Gabriella Xibilia, 2007-05-31 focussed on the key steps in soft sensor design data selection model structure selection and model validation respectively Extensions to the basic steps of soft sensor design namely soft sensor performance enhancement and the modifications needed to facilitate different industrial process applications follow in Chapter 7 and 8 respectively Widening the applications range and role of soft sensors to fault detection and sensor validation configurations is dealt with in Chapter 9 A great strength of Soft Sensors for Monitoring and Control of Industrial Processes is the use throughout the text of a set of industrial case studies to demonstrate the successes and drawbacks of the different methods used to create soft sensor models A number of different methods may be used in each separate step of the soft sensor design process and the industrial case studies are often used to provide explicit comparisons of the performance of these methods The industrial control and process engineer will find these comparison exercises invaluable illustrations of the sort of results that might be found in industrial applications. The monograph also highlights the importance of using knowledge from industrial experts and from the existing industrial process literature This is an important aspect of industrial control that is not very widely acknowledged or taught in control courses Most industrial processes have already generated a significant experimental knowledge base and the control engineer should develop ways of tapping into this valuable resource when designing industrial control schemes Fundamentals of Signals and Control Systems Smain Femmam, 2017-01-03 The aim of this book is the study of signals and deterministic systems linear time invariant finite dimensions and causal A set of useful tools is selected for the automatic and signal processing and methods of representation of dynamic linear systems are exposed and analysis of their behavior Finally we discuss the estimation identification and synthesis of control laws for the purpose of stabilization and regulation The study of signal characteristics and properties systems and knowledge of mathematical tools and treatment methods and analysis are lately more and more importance and continue to evolve The reason is that the current state of technology particularly electronics and computing enables the production of very advanced processing systems effective and less expensive despite the complexity Control Systems Theory with Engineering Applications Sergey E. Lyshevski, 2012-12-06 Dynamics systems living organisms electromechanical and industrial systems chemical and technological processes market and ecology and so forth can be considered and analyzed using information and systems theories For example adaptive human behavior can be studied using automatic feedback control As an illustrative example the driver controls a car changing the speed and steer ing wheels

using incoming information such as traffic and road conditions This book focuses on the most important and manageable topics in applied multivariable control with application to a wide class of electromechanical dynamic systems A large spectrum of systems familiar to electrical mechanical and aerospace stu dents engineers and scholars are thoroughly studied to build the bridge between theory and practice as well as to illustrate the practical application of control theory through illustrative examples It is the author's goal to write a book that can be used to teach undergraduate and graduate classes in automatic control and nonlin ear control at electrical mechanical and aerospace engineering departments The book is also addressed to engineers and scholars and the examples considered allow one to implement the theory in a great variety of industrial systems The main purpose of this book is to help the reader grasp the nature and significance of multivariable Fault Diagnosis and Sustainable Control of Wind Turbines Silvio Simani, Saverio Farsoni, 2018-01-02 Fault Diagnosis and Sustainable Control of Wind Turbines Robust Data Driven and Model Based Strategies discusses the development of reliable and robust fault diagnosis and fault tolerant sustainable control schemes by means of data driven and model based approaches These strategies are able to cope with unknown nonlinear systems and noisy measurements The book also discusses simpler solutions relying on data driven and model based methodologies which are key when on line implementations are considered for the proposed schemes The book targets both professional engineers working in industry and researchers in academic and scientific institutions In order to improve the safety reliability and efficiency of wind turbine systems thus avoiding expensive unplanned maintenance the accommodation of faults in their early occurrence is fundamental To highlight the potential of the proposed methods in real applications hardware in the loop test facilities representing realistic wind turbine systems are considered to analyze the digital implementation of the designed solutions The achieved results show that the developed schemes are able to maintain the desired performances thus validating their reliability and viability in real time implementations Different groups of readers ranging from industrial engineers wishing to gain insight into the applications potential of new fault diagnosis and sustainable control methods to the academic control community looking for new problems to tackle will find much to learn from this work Provides wind turbine models with varying complexity as well as the solutions proposed and developed by the authors Addresses in detail the design development and realistic implementation of fault diagnosis and fault tolerant control strategies for wind turbine systems Addresses the development of sustainable control solutions that in general do not require the introduction of further or redundant measurements Proposes active fault tolerant sustainable solutions that are able to maintain the wind turbine working conditions with gracefully degraded performance before required maintenance can occur Presents full coverage of the diagnosis and fault tolerant control problem starting from the modeling and identification and finishing with diagnosis and fault tolerant control approaches Provides MATLAB and Simulink codes for the solutions proposed Signals and **Control Systems** Smain Femmam, 2017-01-03 The aim of this book is the study of signals and deterministic systems linear

time invariant finite dimensions and causal A set of useful tools is selected for the automatic and signal processing and methods of representation of dynamic linear systems are exposed and analysis of their behavior Finally we discuss the estimation identification and synthesis of control laws for the purpose of stabilization and regulation Adaptive Systems in Medicine Olivier C. L. Haas, Keith J. Burnham, 2008-03-19 Intelligent and adaptive techniques are rapidly being used in all stages of medical treatment from the initial diagnosis to planning delivery and follow up therapy To realize the full potential of these techniques developers and end users must understand both the underlying technology and Vehicle-Manipulator Systems Pål Johan From, Jan Tommy the specifics of the medical application considered Focus Gravdahl, Kristin Ytterstad Pettersen, 2013-10-02 Furthering the aim of reducing human exposure to hazardous environments this monograph presents a detailed study of the modeling and control of vehicle manipulator systems. The text shows how complex interactions can be performed at remote locations using systems that combine the manipulability of robotic manipulators with the ability of mobile robots to locomote over large areas The first part studies the kinematics and dynamics of rigid bodies and standard robotic manipulators and can be used as an introduction to robotics focussing on robust mathematical modeling The monograph then moves on to study vehicle manipulator systems in great detail with emphasis on combining two different configuration spaces in a mathematically sound way Robustness of these systems is extremely important and Modeling and Control of Vehicle manipulator Systems effectively represents the dynamic equations using a mathematically robust framework Several tools from Lie theory and differential geometry are used to obtain globally valid representations of the dynamic equations of vehicle manipulator systems. The specific characteristics of several different types of vehicle manipulator systems are included and the various application areas of these systems are discussed in detail For underwater robots buoyancy and gravity drag forces added mass properties and ocean currents are considered For space robotics the effects of free fall environments and the strong dynamic coupling between the spacecraft and the manipulator are discussed For wheeled robots wheel kinematics and non holonomic motion is treated and finally the inertial forces are included for robots mounted on a forced moving base Modeling and Control of Vehicle manipulator Systems will be of interest to researchers and engineers studying and working on many applications of robotics underwater space personal assistance and mobile manipulation in general all of which have similarities in the equations required for modeling and control Role of Internet of Everything (IOE), VLSI Architecture, and AI in Real-Time Systems Pandey, Digvijay, Muniandi, Balakumar, Pandey, Binay Kumar, George, A. Shaji, 2024-12-13 The Internet of Things IoT is revolutionizing manufacturing by enabling interconnected systems that enhance data collection human machine interaction and intelligent control processes However the complexity of modern industrial environments presents challenges for signal processing a critical component of IoT efficiency Advances in intelligent cost effective and energy efficient signal processing algorithms are essential for overcoming these limitations and driving IoT innovation Moreover integrating IoT with technologies like artificial intelligence AI deep learning and VLSI has expanded its applications enabling more reliable scalable and compact solutions These developments not only optimize industrial processes but also open new economic opportunities reinforcing the importance of IoT in shaping the future of business and technology Role of Internet of Everything IOE VLSI Architecture and AI in Real Time Systems explores the role of intelligent signal processing ISP and cutting edge technologies like AI deep learning and VLSI in advancing IoT applications within manufacturing and business systems It emphasizes innovative approaches to overcoming IoT challenges focusing on cost effective energy efficient solutions that drive reliability scalability and economic growth Covering topics such as security systems financial risk management and workforce management this book is an excellent resource for academicians researchers graduate students practitioners professionals and more Nanohandling by Microrobots Sergei Fatikow, 2008 This book provides an introduction to robot based nanohandling It presents work on the development of a versatile microrobot based nanohandling robot station inside a scanning electron microscope SEM Those unfamiliar with the subject will find the text which is complemented throughout by the extensive use of illustrations clear and simple to understand The author has published two books and numerous papers in the field and holds more than 50 patents Innovation, Engineering and Entrepreneurship José Machado, Filomena Soares, Germano Veiga, 2018-06-02 This book presents endeavors to join synergies in order to create added value for society using the latest scientific knowledge to boost technology transfer from academia to industry It potentiates the foundations for the creation of knowledge and entrepreneurial cooperation networks involving engineering innovation and entrepreneurship stakeholders The Regional HELIX 2018 conference was organized at the University of Minho's School of Engineering by the MEtRICs and Algoritmi Research Centers and took place in Guimar es Portugal from June 27th to 29th 2018 After a rigorous peer review process 160 were accepted for publication covering a wide range of topics including Control Automation and Robotics Mechatronics Design Medical Devices and Wellbeing Cyber Physical Systems IoT and Industry 4 0 Innovations in Industrial Context and Advanced Manufacturing New Trends in Mechanical Systems Development Advanced Materials and Innovative Applications Waste to Energy and Sustainable Environment Operational Research and Industrial Mathematics Innovation and Collaborative Arrangements Entrepreneurship and Internationalization and Oriented Education for Innovation Engineering and or Entrepreneurship Control Systems, Robotics and AutomatioN - Volume XI Heinz D. Unbehauen, 2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs **Applied Mechanics**

Reviews ,1985 Eine alternative, datenbasierte Systemdarstellung und deren Anwendung für die Analyse und den Entwurf von Regelkreisen Tim Könings,2017-02-18 Tim K nings entwickelt ein Verfahren fr den datenbasierten Entwurf und die Analyse von Regelkreisen und Diagnosesystemen Zu diesem Zweck wird eine datenbasierte Realisierung zweier alternativer Systemdarstellungen vorgeschlagen und entsprechende Algorithmen zu deren offline und online Berechnung hergeleitet Daraus ergibt sich eine Vielzahl von M glichkeiten regelungstechnisch relevante Gr en wie z B Gap Metrik und Stabilit tsradius aber auch Reglerentwurfsverfahren in einer datenbasierten Form umzusetzen Die so entwickelten Methoden werden mithilfe von drei industrierelevanten Fallbeispielen verifiziert und in Bezug auf deren potentielle Anwendungsfelder hin untersucht Space Station Systems ,1989

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