



MATHEMATICS RESEARCH DEVELOPMENTS

Fuzzy Modeling and Control

Methods, Applications and Research

Terrell Harvey ■ Dallas Mullins
Editors

NOVA

Fuzzy Modeling And Control

Camilla Rothe



Fuzzy Modeling And Control:

Fuzzy Modeling for Control Robert Babuška, 2012-12-06 Rule based fuzzy modeling has been recognised as a powerful technique for the modeling of partly known nonlinear systems Fuzzy models can effectively integrate information from different sources such as physical laws empirical models measurements and heuristics Application areas of fuzzy models include prediction decision support system analysis control design etc Fuzzy Modeling for Control addresses fuzzy modeling from the systems and control engineering points of view It focuses on the selection of appropriate model structures on the acquisition of dynamic fuzzy models from process measurements fuzzy identification and on the design of nonlinear controllers based on fuzzy models To automatically generate fuzzy models from measurements a comprehensive methodology is developed which employs fuzzy clustering techniques to partition the available data into subsets characterized by locally linear behaviour The relationships between the presented identification method and linear regression are exploited allowing for the combination of fuzzy logic techniques with standard system identification tools Attention is paid to the trade off between the accuracy and transparency of the obtained fuzzy models Control design based on a fuzzy model of a nonlinear dynamic process is addressed using the concepts of model based predictive control and internal model control with an inverted fuzzy model To this end methods to exactly invert specific types of fuzzy models are presented In the context of predictive control branch and bound optimization is applied The main features of the presented techniques are illustrated by means of simple examples In addition three real world applications are described Finally software tools for building fuzzy models from measurements are available from the author *Fuzzy Modeling and Control* Andrzej Piegat, 2013-03-19 In the last ten years a true explosion of investigations into fuzzy modeling and its applications in control diagnostics decision making optimization pattern recognition robotics etc has been observed The attraction of fuzzy modeling results from its intelligibility and the high effectiveness of the models obtained Owing to this the modeling can be applied for the solution of problems which could not be solved till now with any known conventional methods The book provides the reader with an advanced introduction to the problems of fuzzy modeling and to one of its most important applications fuzzy control It is based on the latest and most significant knowledge of the subject and can be used not only by control specialists but also by specialists working in any field requiring plant modeling process modeling and systems modeling e.g. economics business medicine agriculture and meteorology *Fuzzy Modeling and Control: Theory and Applications* Fernando Matía, G. Nicolás Marichal, Emilio Jiménez, 2014-08-14 Much work on fuzzy control covering research development and applications has been developed in Europe since the 90 s Nevertheless the existing books in the field are compilations of articles without interconnection or logical structure or they express the personal point of view of the author This book compiles the developments of researchers with demonstrated experience in the field of fuzzy control following a logic structure and a unified the style The first chapters of the book are dedicated to the introduction of the main fuzzy logic techniques where the

following chapters focus on concrete applications This book is supported by the EUSFLAT and CEA IFAC societies which include a large number of researchers in the field of fuzzy logic and control The central topic of the book Fuzzy Control is one of the main research and development lines covered by these associations *Fuzzy Modeling and Control* Hung T. Nguyen, Nadipuram R. Prasad, 1999-03-30 This collection compiles the seminal contributions of Michio Sugeno on fuzzy systems and technologies Fuzzy Modeling Control Selected Works of Sugeno serves as a singular resource that provides a clear comprehensive treatment of fuzzy control systems The book comprises two parts fuzzy system identification and modeling systems control Each part outlines the fundamentals of fuzzy logic and covers essential material for understanding the mathematical and modeling details in Sugeno's works Introductory chapters include extended summaries of each paper or group of papers suggesting where the theories discussed might be useful in application *Analytical Methods in Fuzzy Modeling and Control* Jacek Kluska, 2009-03-10 This book is focused on mathematical analysis and rigorous design methods for fuzzy control systems based on Takagi Sugeno fuzzy models sometimes called Takagi Sugeno Kang models The author presents a rather general analytical theory of exact fuzzy modeling and control of continuous and discrete time dynamical systems Main attention is paid to usability of the results for the control and computer engineering community and therefore simple and easy knowledge bases for linguistic interpretation have been used The approach is based on the author's theorems concerning equivalence between widely used Takagi Sugeno systems and some class of multivariate polynomials It combines the advantages of fuzzy system theory and classical control theory Classical control theory can be applied to modeling of dynamical plants and the controllers They are all equivalent to the set of Takagi Sugeno type fuzzy rules The approach combines the best of fuzzy and conventional control theory It enables linguistic interpretability also called transparency of both the plant model and the controller In the case of linear systems and some class of nonlinear systems engineers can in many cases directly apply well known classical tools from the control theory both for analysis and the design of closed loop fuzzy control systems Therefore the main objective of the book is to establish comprehensive and unified analytical foundations for fuzzy modeling using the Takagi Sugeno rule scheme and their applications for fuzzy control identification of some class of nonlinear dynamical processes and classification problem solver design **Fuzzy Modeling and Control** Terrell Harvey, Dallas Mullins, 2018-06-05 Fuzzy Modeling and Control Methods Applications and Research opens by recommending a new fuzzy RANSAC algorithm based on the reinforcement learning concept to improve modeling performance under the outlier noise The authors also propose a novel methodology for online modeling of multivariable Hammerstein evolving fuzzy models with minimum realization in state space from experimental data Results characterized by strongly coupled nonlinearities demonstrate the computational efficiency of the proposed methodology Later two types of neural networks are applied to find the approximate solutions of the fully fuzzy nonlinear system and a superior gradient descent algorithm is proposed in order to train the neural networks Lastly the authors propose a novel online evolving fuzzy

Takagi Sugeno state space model identification approach for nonlinear multivariable systems To circumvent the curse of dimensionality the algorithm uses tools for monitoring the quality of the existing clusters Novinka

New Approaches To Fuzzy Modeling And Control: Design And Analysis Gideon Langholz, Michael Margaliot, 2000-07-04 Fuzzy logic has found applications in an incredibly wide range of areas in the relatively short time since its conception It was invented by Lotfi Zadeh a leading systems expert so it is perhaps not surprising that system theory is one of the areas in which fuzzy logic has made a profound impact Fuzzy logic combined with the paradigm of computing with words allows the use and manipulation of human knowledge and reasoning in the modeling and control of dynamical systems This monograph presents new approaches to the construction of fuzzy models and to the design of fuzzy controllers The emphasis is on developing methods that allow systematic design on the one hand and mathematical analysis of the resulting system on the other In particular the methods described allow rigorous analysis of the stability and robustness of the systems which are crucial issues in control theory The first theme of the book is a new approach to the systematic design and analysis of fuzzy controllers given linguistic information concerning the plant and the control objective The new approach fuzzy Lyapunov synthesis is a computing with words version of the well known classical Lyapunov synthesis method The second theme of the book is to show that fuzzy controllers are in fact solutions of a nonlinear optimal control problem The authors formulate a novel nonlinear optimal control problem consisting of a new state space model referred to as the hyperbolic state space model and a new cost functional and show that its solution is a fuzzy controller This leads to a new framework for fuzzy modeling and control that combines the advantages of the fuzzy world such as linguistic interpretability and of classical optimal control theory such as guaranteed stability and robustness

Essentials of Fuzzy Modeling and Control Ronald R. Yager, Dimitar P. Filev, 1994 This book offers a thorough introduction to the field of fuzzy logic with complete coverage of both relevant theory and applications With its comprehensive presentation of fuzzy logic as well as coverage of both fuzzy control and modeling this text is destined to become the classic primer in this quickly developing field

Fuzzy Systems Hung T. Nguyen, Michio Sugeno, 1998-07-31 The analysis and control of complex systems have been the main motivation for the emergence of fuzzy set theory since its inception It is also a major research field where many applications especially industrial ones have made fuzzy logic famous This unique handbook is devoted to an extensive organized and up to date presentation of fuzzy systems engineering methods The book includes detailed material and extensive bibliographies written by leading experts in the field on topics such as Use of fuzzy logic in various control systems Fuzzy rule based modeling and its universal approximation properties Learning and tuning techniques for fuzzy models using neural networks and genetic algorithms Fuzzy control methods including issues such as stability analysis and design techniques as well as the relationship with traditional linear control Fuzzy sets relation to the study of chaotic systems and the fuzzy extension of set valued approaches to systems modeling through the use of differential inclusions Fuzzy Systems Modeling and Control is part of The

Handbooks of Fuzzy Sets Series The series provides a complete picture of contemporary fuzzy set theory and its applications This volume is a key reference for systems engineers and scientists seeking a guide to the vast amount of literature in fuzzy logic modeling and control **Fuzzy Decision Making In Modeling And Control** Joao M Costa Sousa,Uzay

Kaymak,2002-12-03 Decision making and control are two fields with distinct methods for solving problems and yet they are closely related This book bridges the gap between decision making and control in the field of fuzzy decisions and fuzzy control and discusses various ways in which fuzzy decision making methods can be applied to systems modeling and control Fuzzy decision making is a powerful paradigm for dealing with human expert knowledge when one is designing fuzzy model based controllers The combination of fuzzy decision making and fuzzy control in this book can lead to novel control schemes that improve the existing controllers in various ways The following applications of fuzzy decision making methods for designing control systems are considered Fuzzy decision making for enhancing fuzzy modeling The values of important parameters in fuzzy modeling algorithms are selected by using fuzzy decision making Fuzzy decision making for designing signal based fuzzy controllers The controller mappings and the defuzzification steps can be obtained by decision making methods Fuzzy design and performance specifications in model based control Fuzzy constraints and fuzzy goals are used Design of model based controllers combined with fuzzy decision modules Human operator experience is incorporated for the performance specification in model based control The advantages of bringing together fuzzy control and fuzzy decision making are shown with multiple examples from real and simulated control systems Fuzzy Modeling and Fuzzy Control

Huaguang Zhang,Derong Liu,2007-10-17 Fuzzy logic methodology has been proven effective in dealing with complex nonlinear systems containing uncertainties that are otherwise difficult to model Technology based on this methodology has been applied to many real world problems especially in the area of consumer products This book presents the first unified and thorough treatment of fuzzy modeling and fuzzy control providing necessary tools for the control of complex nonlinear systems Careful consideration is given to questions concerning model complexity model precision and computing time In addition to being an excellent reference for electrical computer chemical industrial civil manufacturing mechanical and aeronautical engineers the book may also be appropriate for classroom use in a graduate course in electrical engineering computer engineering and computer science Applied mathematicians control engineers computer scientists and physicists will benefit from the presentation as well Modeling and Control of Uncertain Nonlinear Systems with Fuzzy Equations and Z-Number Wen Yu,Raheleh Jafari,2019-07-10 An original systematic solution approach to uncertain nonlinear systems control and modeling using fuzzy equations and fuzzy differential equations There are various numerical and analytical approaches to the modeling and control of uncertain nonlinear systems Fuzzy logic theory is an increasingly popular method used to solve inconvenience problems in nonlinear modeling Modeling and Control of Uncertain Nonlinear Systems with Fuzzy Equations and Z Number presents a structured approach to the control and modeling of uncertain nonlinear systems in

industry using fuzzy equations and fuzzy differential equations The first major work to explore methods based on neural networks and Bernstein neural networks this innovative volume provides a framework for control and modeling of uncertain nonlinear systems with applications to industry Readers learn how to use fuzzy techniques to solve scientific and engineering problems and understand intelligent control design and applications The text assembles the results of four years of research on control of uncertain nonlinear systems with dual fuzzy equations fuzzy modeling for uncertain nonlinear systems with fuzzy equations the numerical solution of fuzzy equations with Z numbers and the numerical solution of fuzzy differential equations with Z numbers Using clear and accessible language to explain concepts and principles applicable to real world scenarios this book Presents the modeling and control of uncertain nonlinear systems with fuzzy equations and fuzzy differential equations Includes an overview of uncertain nonlinear systems for non specialists Teaches readers to use simulation modeling and verification skills valuable for scientific research and engineering systems development Reinforces comprehension with illustrations tables examples and simulations Modeling and Control of Uncertain Nonlinear Systems with Fuzzy Equations and Z Number is suitable as a textbook for advanced students academic and industrial researchers and practitioners in fields of systems engineering learning control systems neural networks computational intelligence and fuzzy logic control

Fuzzy Logic Control: Advances In Applications Robert Babuska, Henk B Verbruggen, 1999-03-19 Fuzzy logic control has become an important methodology in control engineering This volume deals with applications of fuzzy logic control in various domains The contributions are divided into three parts The first part consists of two state of the art tutorials on fuzzy control and fuzzy modeling Surveys of advanced methodologies are included in the second part These surveys address fuzzy decision making and control fault detection isolation and diagnosis complexity reduction in fuzzy systems and neuro fuzzy methods The third part contains application oriented contributions from various fields such as process industry cement and ceramics vehicle control and traffic management electromechanical and production systems avionics biotechnology and medical applications The book is intended for researchers both from the academic world and from industry

Fuzzy Control and Modeling Hao Ying, 2000-08-15 The emerging powerful fuzzy control paradigm has led to the worldwide success of countless commercial products and real world applications Fuzzy control is exceptionally practical and cost effective due to its unique ability to accomplish tasks without knowing the mathematical model of the system even if it is nonlinear time varying and complex Nevertheless compared with the conventional control technology most fuzzy control applications are developed in an ad hoc manner with little analytical understanding and without rigorous system analysis and design Fuzzy Control and Modeling is the only book that establishes the analytical foundations for fuzzy control and modeling in relation to the conventional linear and nonlinear theories of control and systems The coverage is up to date comprehensive in depth and rigorous Numeric examples and applications illustrate the utility of the theoretical development Important topics discussed include Structures of fuzzy controllers models with respect to conventional fuzzy controllers models Analysis

of fuzzy control and modeling in relation to their classical counterparts Stability analysis of fuzzy systems and design of fuzzy control systems Sufficient and necessary conditions on fuzzy systems as universal approximators Real time fuzzy control systems for treatment of life critical problems in biomedicine Fuzzy Control and Modeling is a self contained invaluable resource for professionals and students in diverse technical fields who aspire to analytically study fuzzy control and modeling

Fuzzy Model Identification for Control Janos Abonyi, 2012-12-06 Overview Since the early 1990s fuzzy modeling and identification from process data have been and continue to be an evolving subject of interest Although the application of fuzzy models proved to be effective for the approximation of uncertain nonlinear processes the data driven identification of fuzzy models alone sometimes yields complex and unrealistic models Typically this is due to the over parameterization of the model and insufficient information content of the identification data set These difficulties stem from a lack of initial a priori knowledge or information about the system to be modeled To solve the problem of limited knowledge in the area of modeling and identification there is a tendency to blend information of different natures to employ as much knowledge for model building as possible Hence the incorporation of different types of a priori knowledge into the data driven fuzzy model generation is a challenging and important task Motivated by our research into this topic our book presents new approaches to the construction of fuzzy models for model based control New model structures and identification algorithms are described for the effective use of heterogeneous information in the form of numerical data qualitative knowledge and first principle models By exploiting the mathematical properties of the proposed model structures such as invertibility and local linearity new control algorithms will be presented

Formal Methods for Fuzzy Modeling and Control, 2001 **Analysis and Synthesis of Fuzzy Control Systems** Gang Feng, 2018-09-03 Fuzzy logic control FLC has proven to be a popular control methodology for many complex systems in industry and is often used with great success as an alternative to conventional control techniques However because it is fundamentally model free conventional FLC suffers from a lack of tools for systematic stability analysis and controller design To address this problem many model based fuzzy control approaches have been developed with the fuzzy dynamic model or the Takagi and Sugeno T S fuzzy model based approaches receiving the greatest attention Analysis and Synthesis of Fuzzy Control Systems A Model Based Approach offers a unique reference devoted to the systematic analysis and synthesis of model based fuzzy control systems After giving a brief review of the varieties of FLC including the T S fuzzy model based control it fully explains the fundamental concepts of fuzzy sets fuzzy logic and fuzzy systems This enables the book to be self contained and provides a basis for later chapters which cover T S fuzzy modeling and identification via nonlinear models or data Stability analysis of T S fuzzy systems Stabilization controller synthesis as well as robust H and observer and output feedback controller synthesis Robust controller synthesis of uncertain T S fuzzy systems Time delay T S fuzzy systems Fuzzy model predictive control Robust fuzzy filtering Adaptive control of T S fuzzy systems A reference for scientists and engineers in systems and control the book also serves the needs of graduate

students exploring fuzzy logic control It readily demonstrates that conventional control technology and fuzzy logic control can be elegantly combined and further developed so that disadvantages of conventional FLC can be avoided and the horizon of conventional control technology greatly extended Many chapters feature application simulation examples and practical numerical examples based on MATLAB

Fuzzy Control and Identification John H. Lilly, 2011-03-10 This book gives an introduction to basic fuzzy logic and Mamdani and Takagi Sugeno fuzzy systems The text shows how these can be used to control complex nonlinear engineering systems while also suggesting several approaches to modeling of complex engineering systems with unknown models Finally fuzzy modeling and control methods are combined in the book to create adaptive fuzzy controllers ending with an example of an obstacle avoidance controller for an autonomous vehicle using modus ponendo tollens logic

Special Issue Formal Methods for Fuzzy Modeling and Control José Valente de Oliveira, 2001

Fuzzy Chaotic Systems Zhong Li, 2006-08-02 Bringing together the two seemingly unrelated concepts fuzzy logic and chaos theory is primarily motivated by the concept of soft computing SC initiated by Lot A Zadeh the founder of fuzzy set theory The principal constituents of SC are fuzzy logic FL neural network theory NN and probabilistic reasoning PR with the latter subsuming parts of belief networks genetic algorithms chaos theory and learning theory What is important to note is that SC is not a melange of FL NN and PR Rather it is an integration in which each of the partners contributes a distinct methodology for addressing problems in their common domain In this perspective the principal contributions of FL NN and PR are complementary rather than competitive SC differs from conventional hard computing in that it is tolerant of imprecision uncertainty and partial truth In effect the role model for soft computing is the human mind From the general SC concept we extract FL and chaos theory as the object of this book to study their relationships or interactions Over the past few decades fuzzy systems technology and chaos theory have received ever increasing research interests from respectively systems and control engineers theoretical and experimental physicists applied mathematicians physiologists and other communities of researchers Especially as one of the emerging information processing technologies fuzzy systems technology has achieved widespread applications around the globe in many industries and technical fields ranging from control automation and artificial intelligence AI to image signal processing and pattern recognition On the other hand in engineering systems chaos theory has evolved from being simply a curious phenomenon to one with real practical significance and utilization

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