Knowledge Database

Rule Base

FUZZY CONTROLLER

Input fuzzy linguistic variables

Output fuzzy linguistic variables

Input

Error

Fuzzification

Fuzzy Inference Rules

Defuzzification

Output crisp variables

SENSOR

PLANT

Intelligent Control Fuzzy Logic Applications Fuzzy Logic Applications

Ahmad Taher Azar,Sundarapandian Vaidyanathan

Intelligent Control Fuzzy Logic Applications Fuzzy Logic Applications:

   Intelligent Control Clarence W. de Silva,2018-05-02 The emergence of fuzzy logic and its applications has dramatically changed the face of industrial control engineering Over the last two decades fuzzy logic has allowed control engineers to meet and overcome the challenges of developing effective controllers for increasingly complex systems with poorly defined dynamics Today s engineers need a working knowledge of the principles and techniques of fuzzy logic Intelligent Control provides it The author first introduces the traditional control techniques and contrasts them with intelligent control He then presents several methods of representing and processing knowledge and introduces fuzzy logic as one such method He highlights the advantages of fuzzy logic over other techniques indicates its limitations and describes in detail a hierarchical control structure appropriate for use in intelligent control systems He introduces a variety of applications most in the areas of robotics and mechatronics but with others including air conditioning and process production control One appendix provides discussion of some advanced analytical concepts of fuzzy logic another describes a commercially available software system for developing fuzzy logic application Intelligent Control is filled with worked examples exercises problems and references No prior knowledge of the subject nor advanced mathematics are needed to comprehend much of the book making it well suited as a senior undergraduate or first year graduate text and a convenient reference tool for practicing professionals   **Intelligent Control** Clarence W. De Silva,1995   **Methods and Applications of Intelligent Control** S.G. Tzafestas,2012-12-06 This book is concerned with Intelligent Control methods and applications The field of intelligent control has been expanded very much during the recent years and a solid body of theoretical and practical results are now available These results have been obtained through the synergetic fusion of concepts and techniques from a variety of fields such as automatic control systems science computer science neurophysiology and operational research Intelligent control systems have to perform anthropomorphic tasks fully autonomously or interactively with the human under known or unknown and uncertain environmental conditions Therefore the basic components of any intelligent control system include cognition perception learning sensing planning numeric and symbolic processing fault detection repair reaction and control action These components must be linked in a systematic synergetic and efficient way Predecessors of intelligent control are adaptive control self organizing control and learning control which are well documented in the literature Typical application examples of intelligent controls are intelligent robotic systems intelligent manufacturing systems intelligent medical systems and intelligent space teleoperators Intelligent controllers must employ both quantitative and qualitative information and must be able to cope with severe temporal and spatial variations in addition to the fundamental task of achieving the desired transient and steady state performance Of course the level of intelligence required in each particular application is a matter of discussion between the designers and users The current literature on intelligent control is increasing but the information is still available in a sparse and disorganized way   **Type-2 Fuzzy Logic in Intelligent Control Applications** Oscar

Castillo,2011-10-18 We describe in this book hybrid intelligent systems based mainly on type 2 fuzzy logic for intelligent control Hybrid intelligent systems combine several intelligent computing paradigms including fuzzy logic and bio inspired optimization algorithms which can be used to produce powerful automatic control systems The book is organized in three main parts which contain a group of chapters 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 can be the basis for achieving intelligent control with interval type 2 fuzzy logic The second part of the book is comprised of chapters with the main theme of evolutionary optimization of type 2 fuzzy systems in intelligent control with the aim of designing optimal type 2 fuzzy controllers for complex control problems in diverse areas of application including mobile robotics aircraft dynamics systems and hardware implementations The third part of the book is formed with chapters dealing with the theme of bio inspired optimization of type 2 fuzzy systems in intelligent control which includes the application of particle swarm intelligence and ant colony optimization algorithms for obtaining optimal type 2 fuzzy controllers **Introduction to Fuzzy Logic using MATLAB** S.N. Sivanandam,S. Sumathi,S. N. Deepa,2006-10-28 Fuzzy Logic at present is a hot topic among academicians as well various programmers This book is provided to give a broad in depth overview of the field of Fuzzy Logic The basic principles of Fuzzy Logic are discussed in detail with various solved examples The different approaches and solutions to the problems given in the book are well balanced and pertinent to the Fuzzy Logic research projects The applications of Fuzzy Logic are also dealt to make the readers understand the concept of Fuzzy Logic The solutions to the problems are programmed using MATLAB 6 0 and the simulated results are given The MATLAB Fuzzy Logic toolbox is provided for easy reference *Type-3 Fuzzy Logic in Intelligent Control* Oscar Castillo,Patricia Melin,2023-11-15 This book focuses on the field of type 3 fuzzy logic also considering metaheuristics for applications in the control area The main idea is that these areas together can solve various control problems and find better results In this book we test the proposed method using several benchmark problems such as the problem for filling a water tank and the problem for controlling the trajectory in an autonomous mobile robot We notice that when interval type 3 fuzzy systems are implemented to model the behavior of the systems the results in control show a better stabilization because the management of uncertainty is better For this reason we consider in this book the proposed method using type 3 fuzzy systems fuzzy controllers and metaheuristic algorithms to improve the control behavior of complex nonlinear plants This book is intended to be a reference for scientists and engineers interested in applying type 3 fuzzy logic techniques for solving problems in intelligent control We consider that this book can also be used to get novel ideas for new lines of research or to continue the lines of research proposed by the authors of the book *Intelligent Control Systems* IEEE Neural Networks Council,1996 *Intelligent Control Systems Using Computational Intelligence Techniques* A.E. Ruano,2005-07-18 Intelligent Control techniques are becoming important tools in both academia and industry Methodologies developed in the field of soft computing such as neural networks fuzzy systems

and evolutionary computation can lead to accommodation of more complex processes improved performance and considerable time savings and cost reductions Intelligent Control Systems using Computational Intellingence Techniques details the application of these tools to the field of control systems Each chapter gives and overview of current approaches in the topic covered with a set of the most important references in the field and then details the author s approach examining both the theory and practical applications   *Intelligent Control: Principles, Techniques And Applications* Zixing Cai,1997-12-18 This book introduces the development process structural theories and research areas of intelligent control explains the knowledge representations searching and reasoning mechanisms as the fundamental techniques of intelligent control studies the theoretical principles and architectures of various intelligent control systems analyzes the paradigms of representative applications of intelligent control and discusses the research and development trends of the intelligent control From the general point of view this book possesses the following features updated research results both in theory and application that reflect the latest advances in intelligent control closed connection between theory and practice that enables readers to use the principles to their case studies and practical projects and comprehensive materials that helps readers in understanding and learning   **Intelligent Control Systems Using Soft Computing Methodologies** Ali Zilouchian,Mo Jamshidi,2001-03-27 In recent years intelligent control has emerged as one of the most active and fruitful areas of research and development Until now however there has been no comprehensive text that explores the subject with focus on the design and analysis of biological and industrial applications Intelligent Control Systems Using Soft Computing Methodologies does all that and more Beginning with an overview of intelligent control methodologies the contributors present the fundamentals of neural networks supervised and unsupervised learning and recurrent networks They address various implementation issues then explore design and verification of neural networks for a variety of applications including medicine biology digital signal processing object recognition computer networking desalination technology and oil refinery and chemical processes The focus then shifts to fuzzy logic with a review of the fundamental and theoretical aspects discussion of implementation issues and examples of applications including control of autonomous underwater vehicles navigation of space vehicles image processing robotics and energy management systems The book concludes with the integration of genetic algorithms into the paradigm of soft computing methodologies including several more industrial examples implementation issues and open problems and open problems related to intelligent control technology Suitable as a textbook or a reference Intelligent Control Systems explores recent advances in the field from both the theoretical and the practical viewpoints It also integrates intelligent control design methodologies to give designers a set of flexible robust controllers and provide students with a tool for solving the examples and exercises within the book   Intelligent Control of Robotic Systems D. Katic,M. Vukobratovic,2013-03-14 As robotic systems make their way into standard practice they have opened the door to a wide spectrum of complex applications Such applications usually demand that the robots be highly intelligent Future robots are

likely to have greater sensory capabilities more intelligence higher levels of manual dexter ity and adequate mobility compared to humans In order to ensure high quality control and performance in robotics new intelligent control techniques must be developed which are capable of coping with task complexity multi objective decision making large volumes of perception data and substantial amounts of heuristic information Hence the pursuit of intelligent autonomous robotic systems has been a topic of much fascinating research in recent years On the other hand as emerging technologies Soft Computing paradigms consisting of complementary elements of Fuzzy Logic Neural Computing and Evolutionary Computation are viewed as the most promising methods towards intelligent robotic systems Due to their strong learning and cognitive ability and good tolerance of uncertainty and imprecision Soft Computing techniques have found wide application in the area of intelligent control of robotic systems *New Approaches in Intelligent Control* Kazumi Nakamatsu,Roumen Kountchev,2016-06-02 This volume introduces new approaches in intelligent control area from both the viewpoints of theory and application It consists of eleven contributions by prominent authors from all over the world and an introductory chapter This volume is strongly connected to another volume entitled New Approaches in Intelligent Image Analysis Eds Roumen Kountchev and Kazumi Nakamatsu The chapters of this volume are self contained and include summary conclusion and future works Some of the chapters introduce specific case studies of various intelligent control systems and others focus on intelligent theory based control techniques with applications A remarkable specificity of this volume is that three chapters are dealing with intelligent control based on paraconsistent logics **Safety, Reliability and Applications of Emerging Intelligent Control Technologies** T.S. Ng,Y.S. Hung,2014-06-28 Increasingly over the last few years intelligent controllers have been incorporated into control systems Presently the numbers and types of intelligent controllers that contain variations of fuzzy logic neural network genetic algorithms or some other forms of knowledge based reasoning technology are dramatically rising However considering the stability of the system when such controllers are included it is difficult to analyse and predict system behaviour under unexpected conditions Leading researchers and industrial practitioners were able to discuss and evaluate current development and future research directions at the first IFAC International Workshop on safety reliability and applications on emerging intelligent control technology This publication contains the papers covering a wide range of topics presented at the workshop **Intelligent Adaptive Control** Lakhmi C. Jain,Clarence W. de Silva,1998-12-29 This book describes important techniques developments and applications of computational intelligence in system control Chapters present an introduction to the fundamentals of neural networks fuzzy logic and evolutionary computing a rigorous treatment of intelligent control industrial applications of intelligent control and soft computing including transportation petroleum motor drive industrial automation and fish processing other knowledge based techniques including vehicle driving aid and air traffic management Intelligent Adaptive Control provides a state of the art treatment of practical applications of computational intelligence in system control The book cohesively covers introductory and advanced

theory design implementation and industrial use serving as a singular resource for the theory and application of intelligent control particularly employing fuzzy logic neural networks and evolutionary computing **Computational Intelligence Applications in Modeling and Control** Ahmad Taher Azar,Sundarapandian Vaidyanathan,2014-12-26 The development of computational intelligence CI systems was inspired by observable and imitable aspects of intelligent activity of human being and nature The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing mutually supportive factors Developed theories of computational intelligence were quickly applied in many fields of engineering data analysis forecasting biomedicine and others They are used in images and sounds processing and identifying signals processing multidimensional data visualization steering of objects analysis of lexicographic data requesting systems in banking diagnostic systems expert systems and many other practical implementations This book consists of 16 contributed chapters by subject experts who are specialized in the various topics addressed in this book The special chapters have been brought out in the broad areas of Control Systems Power Electronics Computer Science Information Technology modeling and engineering applications Special importance was given to chapters offering practical solutions and novel methods for the recent research problems in the main areas of this book viz Control Systems Modeling Computer Science IT and engineering applications This book will serve as a reference book for graduate students and researchers with a basic knowledge of control theory computer science and soft computing techniques The resulting design procedures are emphasized using Matlab Simulink software **Intelligent Control Systems with an Introduction to System of Systems Engineering** Thrishantha Nanayakkara,Ferat Sahin,Mo Jamshidi,2018-09-03 From aeronautics and manufacturing to healthcare and disaster management systems engineering SE now focuses on designing applications that ensure performance optimization robustness and reliability while combining an emerging group of heterogeneous systems to realize a common goal Use SoS to Revolutionize Management of Large Organizations Factories and Systems Intelligent Control Systems with an Introduction to System of Systems Engineering integrates the fundamentals of artificial intelligence and systems control in a framework applicable to both simple dynamic systems and large scale system of systems SoS For decades NASA has used SoS methods and major manufacturers including Boeing Lockheed Martin Northrop Grumman Raytheon BAE Systems now make large scale systems integration and SoS a key part of their business strategies dedicating entire business units to this remarkably efficient approach Simulate Novel Robotic Systems and Applications Transcending theory this book offers a complete and practical review of SoS and some of its fascinating applications including Manipulation of robots through neural based network control Use of robotic swarms based on ant colonies to detect mines Other novel systems in which intelligent robots trained animals and humans cooperate to achieve humanitarian objectives Training engineers to integrate traditional systems control theory with soft computing techniques further nourishes emerging SoS technology With this in mind the authors

address the fundamental precepts at the core of SoS which uses human heuristics to model complex systems providing a scientific rationale for integrating independent complex systems into a single coordinated stabilized and optimized one They provide readers with MATLAB code which can be downloaded from the publisher s website to simulate presented results and projects that offer practical hands on experience using concepts discussed throughout the book *Application of Artificial Intelligence in Hybrid Electric Vehicle Energy Management* Jili Tao,Ridong Zhang,Longhua Ma,2024-05-23 Application of Artificial Intelligence in Hybrid Electric Vehicle Energy Management presents the state of the art in hybrid electric vehicle system modelling and management With a focus on learning based energy management strategies the book provides detailed methods mathematical models and strategies designed to optimize the energy management of the energy supply module of a hybrid vehicle The book first addresses the underlying problems in Hybrid Electric Vehicle HEV modeling and then introduces several artificial intelligence based energy management strategies of HEV systems including those based on fuzzy control with driving pattern recognition multi objective optimization fuzzy Q learning and Deep Deterministic Policy Gradient DDPG algorithms To help readers apply these management strategies the book also introduces State of Charge and State of Health prediction methods and real time driving pattern recognition For each application the detailed experimental process program code experimental results and algorithm performance evaluation are provided Application of Artificial Intelligence in Hybrid Electric Vehicle Energy Management is a valuable reference for anyone involved in the modelling and management of hybrid electric vehicles and will be of interest to graduate students researchers and professionals working on HEVs in the fields of energy electrical and automotive engineering Provides a guide to the modeling and simulation methods of hybrid electric vehicle energy systems including fuel cell systems Describes the fundamental concepts and theory behind CNN MPC fuzzy control multi objective optimization fuzzy Q learning and DDPG Explains how to use energy management methods such as parameter estimation Q learning and pattern recognition including battery State of Health and State of Charge prediction and vehicle operating conditions **Industrial Intelligent Control** Yong-Zai Lu,1996-05-01 With a strong emphasis on applications of intelligent control this extremely accessible book covers the fundamentals methodologies architectures and algorithms of automatic control systems The author summarizes several current concepts to improve industrial control systems combining classical control techniques of dynamic modeling and control with new approaches discussed in the text Addresses such intelligent systems as neural networks fuzzy logic ruled based and genetic algorithms Demonstrates how to develop design and use intelligent systems to solve sophisticated industrial control problems Includes numerous worked application examples <u>Intelligent Control and Smart Energy Management</u> Maude Josée Blondin,João Pedro Fernandes Trovão,Hicham Chaoui,Panos M. Pardalos,2022-05-28 This volume aims to provide a state of the art and the latest advancements in the field of intelligent control and smart energy management Techniques combined with technological advances have enabled the deployment of new operating systems in many engineering applications especially in the domain

of transport and renewable resources The control and energy management of transportation and renewable resources are shifting towards autonomous reasoning learning planning and operating As a result these techniques also referred to as autonomous control and energy management will become practically ubiquitous soon The discussions include methods based on neural control and others as well as distributed and intelligent optimization While the theoretical concepts are detailed and explained the techniques presented are tailored to transport and renewable resources applications such as smart grids and automated vehicles The reader will grasp the most important theoretical concepts as well as to fathom the challenges and needs related to timely practical applications Additional content includes research perspectives and future direction as well as insight into the devising of techniques that will meet tomorrow s scientific needs This contributed volume is for researchers graduate students engineers and practitioners in the domains of control energy and transportation

Computational Intelligence in Industrial Application Yanglv Ling,2015-07-28 These proceedings of the 2014 Pacific Asia Workshop on Computational Intelligence in Industrial Application CIIA 2014 include 81 peer reviewed papers The topics covered in the book include 1 Computer Intelligence 2 Application of Computer Science and Communication 3 Industrial Engineering Product Design and Manufacturing 4 Automatio

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