Intelligent Control Systems Using Soft Computing Methodologies



Methods And Applications Of Intelligent Control

Patricia Melin

Methods And Applications Of Intelligent Control:

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 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 Zi-Xing Cai, 1997 Introducton Methology of knowledge representation General inference principles Hierarchical control systems Expert control systems Fuzzy control systems Neurocontrol systems Learning control systems Intelligente control systems in application Prospectives of intelligente control References Bibliography Subject index 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 Computational Intelligence and Optimization Methods for Control Engineering Maude Josée Blondin, Panos M. Pardalos, Javier Sanchis Sáez, 2019-09-20 This volume presents some recent and principal developments related to computational intelligence and optimization methods in control Theoretical aspects and practical applications of control engineering are covered by 14 self contained contributions Additional gems include the discussion of future directions and research perspectives designed to add to the reader's understanding of both the challenges faced in control engineering and the insights into the developing of new techniques With the knowledge obtained readers are encouraged to determine the appropriate control method for specific applications 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 Applied Intelligent Control of Induction Motor Drives Tze Fun Chan, Keli Shi, 2011-01-19 Induction motors are the most important workhorses in industry They are mostly used as constant speed drives when fed from a voltage source of fixed frequency Advent of advanced power electronic converters and powerful digital signal processors however has made possible the development of high performance adjustable speed AC motor drives This book aims to explore new areas of induction motor control based on artificial intelligence AI techniques in order to make the controller less sensitive to parameter changes Selected AI techniques are applied for different induction motor control strategies. The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored

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