

Edited by
Lakhmi C. Jain
Clarence W. de Silva



INTELLIGENT ADAPTIVE CONTROL

Industrial Applications

Intelligent Adaptive Control Industrial Applications

Dobrivoje Popović



Intelligent Adaptive Control Industrial Applications:

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

Intelligent Adaptive Control Processes L. C. Jain, Clarence W. De Silva, 1999

Practical Applications of Computational Intelligence for Adaptive Control Charles Karr, 1999-04-12 Written as a result of a seven year research project using computational intelligence techniques for solving mineral processing problems at the U S Bureau of Mines this book is about intelligent adaptive process control It brings together ideas from the field of computational intelligence a part of the larger field of artificial intelligence including fuzzy mathematics genetic algorithms and neural networks and uses these ideas to develop a generic architecture for accomplishing adaptive process control In the development of this architecture the requisite tools are described and then demonstrated on a number of problems Moreover most of the examples are of interest in industrial settings although some simple examples are provided in the beginning so that the reader can focus on technique and not be overburdened with the complexity of the problems being solved The focus of Practical Applications of Computational Intelligence for Adaptive Control is on practical applications It provides practicing engineers and scientists with the information they need to solve process control problems in industry and academia If the reader is interested in solving difficult control problems or interested in the mechanics of basic computational intelligence techniques then this book is an excellent place to start

Industrial Applications of Neural Networks Lakhmi C. Jain, V. Rao Vemuri, 1998-10-28 Industrial Applications of Neural Networks explores the success of neural networks in different areas of engineering endeavors Each chapter shows how the power of neural networks can be exploited in modern engineering applications The first seven chapters focus on image processing as well as industrial or manufacturing perspectives Topics discussed include shape recognition shape from shading aircraft detection in SAR images visualization of high dimensional data bases of industrial systems 3 D object learning and recognition from multiple 2 D views fingerprint classification performance optimization in flexible manufacturing systems The remaining chapters address issues and applications in the expansive area of multimedia communications as well as mobile and cellular communications

Industrial Applications of Genetic Algorithms Charles Karr, L. Michael Freeman, 1998-12-29 Genetic algorithms GAs are computer based search

techniques patterned after the genetic mechanisms of biological organisms that have adapted and flourished in changing highly competitive environments for millions of years GAs have been successfully applied to problems in a variety of studies and their popularity continues to increase because of their effectiveness applicability and ease of use Industrial Applications of Genetic Algorithms shows how GAs have made the leap from their origins in the laboratory to the practicing engineer's toolbox Each chapter in the book describes a project completed by a graduate student at the University of Alabama

Analysis and Control of Industrial Processes Dobrivoje Popović, 2012-12-06 This book is an outcome of a 2 days Workshop on Automation Engineering held in Salzhausen near Hamburg F R Germany The Workshop is annually organized by the Institute of Automation Technology and the Institute of Applied and Physical Chemistry of the University of Bremen It is regularly joined by 30 to 40 participants representing the teaching and research staff of both Institutes as well as some invited colleagues from other universities and the regional industry Usually 15-20 selected contributions grouped in technical sessions system modelling and identification control systems design computer hardware and software knowledge based systems robotics etc are presented at the Workshop whereby the invited guests preferably present survey papers on current problems of modern systems engineering For this book 22 papers contributed to the last two Workshops are selected and grouped into 6 Chapters The Chapters reflect the technical sessions listed above and give an average view on current research activities at both Institutes of the University It is expected that the book will prove as a useful reference to the scientists and practicing engineers in the area of development and application of methods of modern systems engineering in processing industry and the robotics

Fuzzy Learning and Applications Marco Russo, 2024-04-26 With low computational complexity and relatively short development time Fuzzy Logic is an indispensable tool for engineering applications The field is growing at an unprecedented rate and there is a need for a book that describes essential tools applications examples and perspectives in the field of fuzzy learning The editors of Fuzzy Learning

Advanced Methods in Adaptive Control for Industrial Applications Kevin Warwick, 1991

Fuzzy Sets & their Application to Clustering & Training Beatrice Lazzarini, Lakhmi C. Jain, D. Dumitrescu, 2000-03-24 Fuzzy set theory and its underlying fuzzy logic represents one of the most significant scientific and cultural paradigms to emerge in the last half century Its theoretical and technological promise is vast and we are only beginning to experience its potential Clustering is the first and most basic application of fuzzy set theory but forms the basis of many more sophisticated intelligent computational models particularly in pattern recognition data mining adaptive and hierarchical clustering and classifier design Fuzzy Sets and their Application to Clustering and Training offers a comprehensive introduction to fuzzy set theory focusing on the concepts and results needed for training and clustering applications It provides a unified mathematical framework for fuzzy classification and clustering a methodology for developing training and classification methods and a general method for obtaining a variety of fuzzy clustering algorithms The authors top experts from around the world combine their talents to lay a solid foundation for

applications of this powerful tool from the basic concepts and mathematics through the study of various algorithms to validity functionals and hierarchical clustering The result is Fuzzy Sets and their Application to Clustering and Training an outstanding initiation into the world of fuzzy learning classifiers and fuzzy clustering Adaptive Neural Network Control of Robotic Manipulators Tong Heng Lee, Christopher John Harris, 1998 Introduction Mathematical background Dynamic modelling of robots Structured network modelling of robots Adaptive neural network control of robots Neural network model reference adaptive control Flexible joint robots task space and force control Bibliography Computer simulation Simulation software in C **Advanced Fuzzy Logic Technologies in Industrial Applications** Ying Bai, Hanqi Zhuang, Dali Wang, 2007-01-17 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination In the mid 1960s and contemporary with Kalman's pioneering papers on state space models and optimal control L A Zadeh began publishing papers on fuzzy sets It took another decade before the fuzzy logic controller due to Mamdani and Assilion was reported in the literature ca 1974 and now the fuzzy logic control paradigm is entering its fifth decade of development and application Thus this new Advances in Industrial Control monograph edited by Ying Bai Hanqi Zhuang and Dali Wang on fuzzy logic control and its practical application comes as a timely reminder of the wide range of problems that can be solved by this continually evolving methodology

Sustainability in Digital Transformation Era: Driving Innovative & Growth Dr Rajeev Agrawal, Dr Arun Pratap Srivastava, Dr Akihiko Sugiyama, 2024-08-29 In the past few weeks OpenAI has released ChatGPT Chat Generative Pre trained Transformer ChatGPT emerges as a formidable chatbot surpassing various iterations of the GPT model and plays a transformative role in user interactions with AI systems In the dynamic realm of AI technologies influential applications like ChatGPT developed by OpenAI mirror the transformative consideration of the simplicity on multiple facets of our daily lives This potent technology holds the potential for significant positive changes particularly in healthcare where the introduction of GPT and chatbot models opens promising avenues for disease treatment and technological innovation **Controller Design for Industrial Applications** Arindam Mondal, Souvik Ganguli, 2025-05-28 Controller Design for Industrial Applications is essential for anyone looking to master the advanced techniques of intelligent controller design enabling you to effectively tackle the complexities of modern industrial processes and optimize performance in an ever evolving landscape Industrial processes are often complex and dynamic making it challenging to design controllers that can maintain stable and optimal operation Traditional controllers such as PID controllers have been widely used in industrial applications but have

limitations in handling non linear and uncertain systems Intelligent controllers offer an alternative solution that can adapt to changing system dynamics and disturbances The use of intelligent controllers in industrial applications has gained increasing attention in recent years with numerous successful implementations in various fields such as process control robotics control HVAC control power systems control and autonomous vehicle control However the design and implementation of intelligent controllers require careful consideration of hardware and software requirements as well as simulation and testing procedures to ensure reliable and safe operation In the rapidly evolving industrial landscape it is essential to develop advanced control techniques to enhance productivity minimize costs and ensure safety Traditional control methods often struggle to handle complex systems and unpredictable environments However with the emergence of intelligent control techniques there is a great opportunity to improve industrial automation and control systems Controller Design for Industrial Applications aims to provide a comprehensive understanding of intelligent controller design for industrial applications from theoretical concepts to practical implementation It will cover the fundamental concepts of intelligent control theory and techniques their application in various industrial fields and practical implementation and design considerations *Dynamic Knowledge Interaction* Toyooki Nishida,2000-03-23 Internet intranets the Web chat rooms E mail and E business With the advent of this widespread networking it is clear that the nature of human interactions is changing As communities develop based on common knowledge connections through traditional social routes are de emphasized Dynamic Knowledge Interaction presents groundbreaking interdisciplinary work on the creation of information tools for people developing modern community support systems This book bridges the fields of advanced information technology social psychology and cognitive psychology It will pique the interest of anyone concerned with community in the context of human computer interaction Evolutionary Electronics Ricardo Salem Zebulum,Marco Aurelio Pacheco,Marley Maria Be Vellasco,2018-10-08 From the explosion of interest research and applications of evolutionary computation a new field emerges evolutionary electronics Focused on applying evolutionary computation concepts and techniques to the domain of electronics many researchers now see it as holding the greatest potential for overcoming the drawbacks of conventional design techniques Evolutionary Electronics Automatic Design of Electronic Circuits and Systems by Genetic Algorithms formally introduces and defines this area of research presents its main challenges in electronic design and explores emerging technologies It describes the evolutionary computation paradigm and its primary algorithms and explores topics of current interest such as multi objective optimization The authors examine numerous evolutionary electronics applications draw conclusions about those applications and sketch the future of evolutionary computation and its applications in electronics In coming years the appearance of more and more advanced technologies will increase the complexity of optimization and synthesis problems and evolutionary electronics will almost certainly become a key to solving those problems Evolutionary Electronics is your key to discovering and unlocking the potential of this promising new field *Microelectronic Design of*

Fuzzy Logic-Based Systems Iluminada Baturone,Angel Barriga,Carlos Jimenez-Fernandez,Diego R. Lopez,Santiago Sanchez-Solano,2018-10-08 Fuzzy logic has virtually exploded over the landscape of emerging technologies becoming an integral part of myriad applications and a standard tool for engineers Until recently most of the attention and applications have centered on fuzzy systems implemented in software But these systems are limited Problems that require real time operation low area or low power consumption demand hardware designed to the fuzzy paradigm and engineers with the background and skills to design it Microelectronic Design of Fuzzy Logic Based Systems offers low cost answers to issues that software cannot resolve From the theoretical architectural and technological foundation to design tools and applications it serves as your guide to effective hardware realizations of fuzzy logic Review fuzzy logic theory and the basic issues of fuzzy sets operators and inference mechanisms Explore the trade offs between efficient theoretical behavior and practical hardware realizations Discover the properties of the possible microelectronic realizations of fuzzy systems conventional processors fuzzy coprocessors and fuzzy chips Investigate the design of fuzzy chips that implement the whole fuzzy inference method into silicon Analyze analog digital and mixed signal techniques Reduce your design effort for fuzzy systems with CAD tools learn the requirements they should meet and survey current environments Put it all together see examples and case studies illustrating how all of this is used to solve particular problems related to control and neuro fuzzy applications

Fusion of Neural Networks, Fuzzy Systems and Genetic Algorithms Lakhmi C. Jain,N.M. Martin,2020-01-29 Artificial neural networks can mimic the biological information processing mechanism in a very limited sense Fuzzy logic provides a basis for representing uncertain and imprecise knowledge and forms a basis for human reasoning Neural networks display genuine promise in solving problems but a definitive theoretical basis does not yet exist for their design Fusion of Neural Networks Fuzzy Systems and Genetic Algorithms integrates neural net fuzzy system and evolutionary computing in system design that enables its readers to handle complexity offsetting the demerits of one paradigm by the merits of another This book presents specific projects where fusion techniques have been applied The chapters start with the design of a new fuzzy neural controller Remaining chapters discuss the application of expert systems neural networks fuzzy control and evolutionary computing techniques in modern engineering systems These specific applications include direct frequency converters electro hydraulic systems motor control toaster control speech recognition vehicle routing fault diagnosis Asynchronous Transfer Mode ATM communications networks telephones for hard of hearing people control of gas turbine aero engines telecommunications systems design Fusion of Neural Networks Fuzzy Systems and Genetic Algorithms covers the spectrum of applications comprehensively demonstrating the advantages of fusion techniques in industrial applications

Industrial Applications of Artificial Intelligence J. L. Alty,L. I. Mikulich,1991 This stimulating and thought provoking collection of papers was organized during a time of great change both in the world perception of the usefulness of Artificial Intelligence and in the world perception of science in the USSR The introduction of Glasnost has opened a window to the

USSR and this conference has made use of that window providing not only a welcomed meeting point for scientists from throughout the world but also a look at topics currently interesting and active in science in the Soviet Union **Fuzzy and Neuro-Fuzzy Systems in Medicine** Horia-Nicolai L Teodorescu, Abraham Kandel, Lakhmi C. Jain, 2017-11-22 Fuzzy and Neuro Fuzzy Systems in Medicine provides a thorough review of state of the art techniques and practices defines and explains relevant problems as well as provides solutions to these problems After an introduction the book progresses from one topic to another with a linear development from fundamentals to applications **Mechatronics** Clarence W. de Silva, 2004-11-29 While most books on the subject present material only on sensors and actuators hardware and simulation or modeling and control Mechatronics An Integrated Approach presents all of these topics in a single unified volume from which users with a variety of engineering backgrounds can benefit The integrated approach emphasizes the design and inst

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