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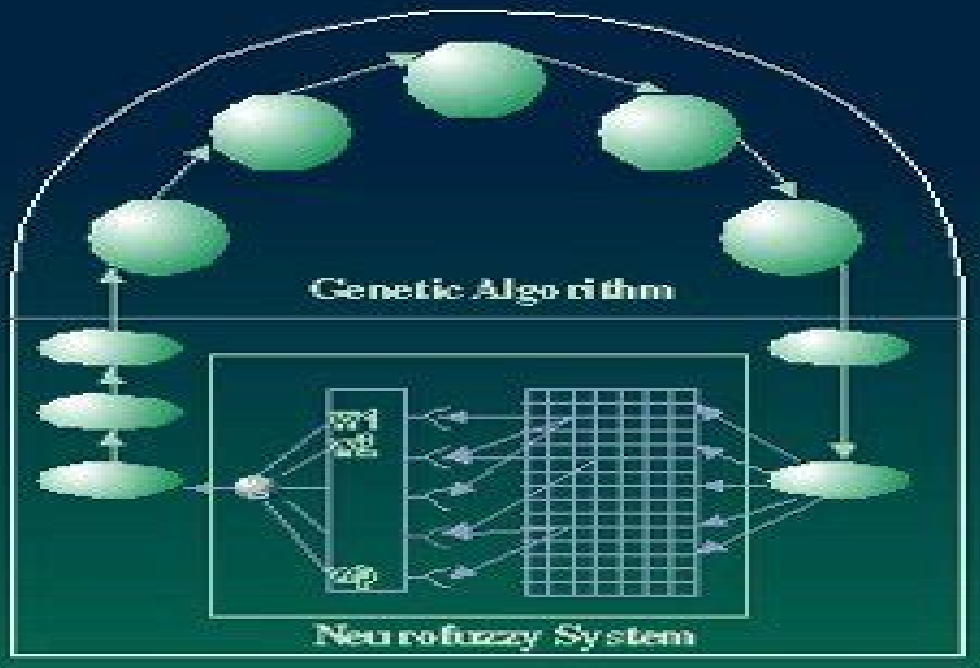
SOFT COMPUTING IN SYSTEMS AND CONTROL TECHNOLOGY



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Soft Computing In Systems And Control Technology

Vinit Kumar Gunjan,Sabrina Senatore,Amit Kumar

Soft Computing In Systems And Control Technology:

Soft Computing in Systems and Control Technology S. G. Tzafestas,1999 Soft computing is a branch of computing which unlike hard computing can deal with uncertain imprecise and inexact data The three constituents of soft computing are fuzzy logic based computing neurocomputing and genetic algorithms Fuzzy logic contributes the capability of approximate reasoning neurocomputing offers function approximation and learning capabilities and genetic algorithms provide a methodology for systematic random search and optimization These three capabilities are combined in a complementary and synergetic fashion This book presents a cohesive set of contributions dealing with important issues and applications of soft computing in systems and control technology The contributions include state of the art material mathematical developments fresh results and how to do issues Among the problems studied via neural fuzzy neurofuzzy and genetic methodologies are data fusion reinforcement learning approximation properties multichannel imaging signal processing system optimization gaming and several forms of control The book can serve as a reference for researchers and practitioners in the field Readers can find in it a large amount of useful and timely information and thus save considerable effort in searching for other scattered literature **Computational Intelligence in Time Series Forecasting** Ajoy K. Palit,Dobrivoje Popovic,2006-01-04 Foresight in an engineering enterprise can make the difference between success and failure and can be vital to the effective control of industrial systems Applying time series analysis in the on line milieu of most industrial plants has been problematic owing to the time and computational effort required The advent of soft computing tools offers a solution The authors harness the power of intelligent technologies individually and in combination Examples of the particular systems and processes susceptible to each technique are investigated cultivating a comprehensive exposition of the improvements on offer in quality model building and predictive control and the selection of appropriate tools from the plethora available Application oriented engineers in process control manufacturing production industry and research centres will find much to interest them in this book It is suitable for industrial training purposes as well as serving as valuable reference material for experimental researchers **Soft Computing and Intelligent Systems** Madan M. Gupta,1999-10-28 The field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms The subject is being called soft computing and computational intelligence With acceptance of the research fundamentals in these important areas the field is expanding into direct applications through engineering and systems science This book cover the fundamentals of this emerging filed as well as direct applications and case studies There is a need for practicing engineers computer scientists and system scientists to directly apply fuzzy engineering into a wide array of devices and systems *Obstacle Avoidance In Multi-robot Systems, Experiments In Parallel Genetic Algorithms* Mark A C Gill,Albert Y Zomaya,1998-06-17 Obstacle Avoidance in Multi robot Systems Experiments in Parallel Genetic Algorithms offers a novel framework for solving the path planning problem for robot manipulators Simple

and efficient solutions are proposed for the path planning problem based on genetic algorithms One of the attractive features of genetic algorithms is their ability to solve formidable problems in a robust and straightforward manner Moreover genetic algorithms are inherently parallel in nature which makes them ideal candidates for parallel computing implementations By combining the robustness of genetic algorithms with the power of parallel computers this book provides an effective and practical approach to solving path planning problems The book gives details of implementations that allow a better understanding of the complexities involved in the development of parallel path planning algorithms The material presented is interdisciplinary in nature it combines topics from robotics genetic algorithms and parallel processing The book can be used by practitioners and researchers in computer science and engineering **Knowledge-based Intelligent Information Engineering Systems & Allied Technologies** Norio Baba,L. C. Jain,Robert J. Howlett,2001 The annual Kes International Conference in Knowledge based Intelligent Information Engineering Systems and Allied Technologies has become an event that is held in high regard by the intelligent systems community The proceedings of the fifth conference represents a comprehensive survey of research on the theory and application of knowledge based intelligent systems including topics such as generic intelligent techniques artificial neural networks machine learning fuzzy and neuro fuzzy techniques and artificial life applications of intelligent systems condition monitoring fault diagnosis image processing and high voltage systems and allied technologies communications the Internet and web based technologies e commerce and computer pets The proceedings should be of interest to those in the intelligent systems field such as engineers researchers and students

Fuzzy Systems and Soft Computing in Nuclear Engineering Da Ruan,2013-11-21 Fuzzy systems and soft computing are new computing techniques that are tolerant to imprecision uncertainty and partial truths Applications of these techniques in nuclear engineering present a tremendous challenge due to its strict nuclear safety regulation The fields of nuclear engineering fuzzy systems and soft computing have nevertheless matured considerably during the last decade This book presents new application potentials for Fuzzy Systems and Soft Computing in Nuclear Engineering The root of this book can be traced back to the series of the first second and third international workshops on Fuzzy Logic and Intelligent Technologies in Nuclear Science FUNS which were successfully held in Mol September 14 16 1994 FLINS 94 in Mol September 25 27 1996 FLINS 96 and in Antwerp September 14 16 1998 FLINS 98 The conferences were organised by the Belgian Nuclear Research Centre SCKeCEN and aimed at bringing together scientists researchers and engineers from academia and industry at introducing the principles of fuzzy logic neural networks genetic algorithms and other soft computing methodologies to the field of nuclear engineering and at applying these techniques to complex problem solving within nuclear industry and related research fields This book as its title suggests consists of nuclear engineering applications of fuzzy systems Chapters 1 10 and soft computing Chapters 11 21 Nine pertinent chapters are based on the extended version of papers at FLINS 98 and the other 12 chapters are original contributions with up to date coverage of fuzzy and soft computing applications by leading

researchers written exclusively for this book Advanced Methods and Technologies for Agent and Multi-Agent Systems D. Barbucha,M.T. Le,R.J. Howlett,2013-05-14 The field of agent and multi agent systems is concerned with the development and evaluation of sophisticated AI based problem solving and control architectures for both single and multi agent systems This book presents the proceedings of the 7th KES Conference on Agent and Multi agent Systems Technologies and Applications KES AMSTA 2013 held in Hue City Vietnam in May 2013 The KES AMSTA 2013 conference provides an internationally respected forum for scientific research in the technologies and applications of agent and multi agent systems In all 44 papers were selected for oral presentation and publication in this volume Special attention is paid to the feature topics of intelligent technologies and applications in the area of e health social networking self organizing systems economics and trust management Other topics covered include agent oriented software engineering beliefs engineering desires and intentions representation agent cooperation coordination negotiation organization and communication distributed problem solving specification of agent communication languages formalization of ontologies and conversational agents The book highlights new trends and challenges in agent and multi agent research and will be of interest to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies and applications *Soft Computing Principles and Integration for Real-Time Service-Oriented Computing* Punit Gupta,Dinesh Kumar Saini,Kashif Zia,2024-03-22 In recent years soft computing techniques have emerged as a successful tool to understand and analyze the collective behavior of service oriented computing software Algorithms and mechanisms of self organization of complex natural systems have been used to solve problems particularly in complex systems which are adaptive ever evolving and distributed in nature across the globe What fits more perfectly into this scenario other than the rapidly developing era of Fog IoT and Edge computing environment Service oriented computing can be enhanced with soft computing techniques embedded inside the Cloud Fog and IoT systems Soft Computing Principles and Integration for Real Time Service Oriented Computing explores soft computing techniques that have wide application in interdisciplinary areas These soft computing techniques provide an optimal solution to the optimization problem using single or multiple objectives The book focuses on basic design principles and analysis of soft computing techniques It discusses how soft computing techniques can be used to improve quality of service in serviceoriented architectures The book also covers applications and integration of soft computing techniques with a service oriented computing paradigm Highlights of the book include A general introduction to soft computing An extensive literature study of soft computing techniques and emerging trends Soft computing techniques based on the principles of artificial intelligence fuzzy logic and neural networks The implementation of SOC with a focus on service composition and orchestration quality of service QoS considerations security and privacy concerns governance challenges and the integration of legacy systems The applications of soft computing in adaptive service composition intelligent service recommendation

fault detection and diagnosis SLA management and security Such principles underlying SOC as loose coupling reusability interoperability and abstraction An IoT based framework for real time data collection and analysis using soft computing

16th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools – ICAFS-2023 Rafik A. Aliev,Janusz Kacprzyk,Witold Pedrycz,Mo. Jamshidi,M.B. Babanli,Fahreddin M. Sadikoglu,2025-02-12 This book covers diverse areas of fuzzy logic soft computing and AI approaches such as uncertain computation decision making under imperfect information deep learning and others The topics of the papers include theory and application of soft computing decision theory with imperfect information neuro fuzzy technology intelligent control machine learning evolutionary computing fuzzy logic and soft computing in engineering industry social sciences business economics earth sciences material sciences and others This book presents the proceedings of the 16th International Conference on Applications of Fuzzy Systems Soft Computing and Artificial Intelligence Tools ICAFS 2023 held in Antalya Turkey on September 14 15 2023 This will be a useful guide for academics practitioners and graduates in fields of fuzzy systems and soft computing It would allow for attracting of interest in development and applying of these paradigms in various real fields **Soft Computing Applications for Database Technologies: Techniques and Issues** Anbumani, K.,Nedunchezhian, R.,2010-06-30 The digital revolution and the explosive growth of the internet have helped the collection of huge amounts of useful data of diverse characteristics which is a valuable and intangible asset in any business of today This book treats the new emerging discipline of soft computing which exploits this data through tolerance for imprecision and uncertainty to achieve solutions for complex problems Soft computing methodologies include fuzzy sets neural networks genetic algorithms Bayesian belief networks and rough sets which are explored in detail through case studies and in depth research The advent of soft computing marks a significant paradigm shift in computing with a wide range of applications and techniques which are presented and discussed in the chapters of this book **Soft Computing Techniques in Connected Healthcare Systems** Moolchand Sharma,Suman Deswal,Umesh Gupta,Mujahid Tabassum,Isah Lawal,2023-12-20 This book provides an examination of applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles of various techniques Soft Computing Techniques in Connected Healthcare Systems presents soft computing techniques and applications used in healthcare systems along with the latest advancements The authors examine how connected healthcare is the essence of combining a practical operative procedure of interconnectedness of electronic health records mHealth clinical informatics electronic data exchange practice management solutions and pharmacy management The book focuses on different soft computing techniques such as fuzzy logic ANN and GA which will enhance services in connected health systems such as remote diagnosis and monitoring medication monitoring devices identifying and treating the underlying causes of disorders and diseases improved access to specialists and lower healthcare costs The chapters also examine descriptive predictive and social network techniques and discuss analytical tools

and the important role they play in enhancing the services to connected healthcare systems Finally the authors address real time challenges with real world case studies to enhance the comprehension of topics This book is intended for under graduate and graduate students researchers and practicing professionals in the field of connected healthcare It provides an overview for beginners while also addressing professionals in the industry on the importance of soft computing approaches in connected healthcare systems **Soft Computing in Smart Manufacturing** Tatjana Sibalija,J. Paulo Davim,2021-12-06 This book aims at addressing the challenges of contemporary manufacturing in Industry 4 0 environment and future manufacturing aka Industry 5 0 by implementing soft computing as one of the major sub fields of artificial intelligence It contributes to development and application of the soft computing systems including links to hardware software and enterprise systems in resolving modern manufacturing issues in complex highly dynamic and globalized industrial circumstances It embraces heterogeneous complementary aspects such as control monitoring and modeling of different manufacturing tasks including intelligent robotic systems and processes addressed by various machine learning and fuzzy techniques modeling and parametric optimization of advanced conventional and non conventional eco friendly manufacturing processes by using machine learning and evolutionary computing techniques cybersecurity framework for Internet of Things based systems addressing trustworthiness and resilience in machine to machine and human machine collaboration static and dynamic digital twins integration and synchronization in a smart factory environment STEP NC technology for a smart machine vision system and integration of Open CNC with Service Oriented Architecture for STEP NC monitoring system in a smart manufacturing Areas of interest include but are not limited to applications of soft computing to address the following dynamic process system modeling and simulation dynamic process system parametric optimization dynamic planning and scheduling smart predictive maintenance intelligent and autonomous systems improved machine cognition effective digital twins integration human machine collaboration robots and cobots **Recent Advances of Hybrid Intelligent Systems Based on Soft Computing** Patricia Melin,Oscar Castillo,Janusz Kacprzyk,2020-11-06 This book describes recent advances on fuzzy logic neural networks and optimization algorithms as well as their hybrid combinations and their application in areas such as intelligent control and robotics pattern recognition medical diagnosis time series prediction and optimization of complex problems The book contains a collection of papers focused on hybrid intelligent systems based on soft computing There are some papers with the main theme of type 1 and type 2 fuzzy logic which basically consists of papers that propose new concepts and algorithms based on type 1 and type 2 fuzzy logic and their applications There are also some papers that present theory and practice of meta heuristics in different areas of application Another group of papers describes diverse applications of fuzzy logic neural networks and hybrid intelligent systems in medical applications There are also some papers that present theory and practice of neural networks in different areas of application In addition there are papers that present theory and practice of optimization and evolutionary algorithms in different areas of application Finally there are some

papers describing applications of fuzzy logic neural networks and meta heuristics in pattern recognition problems *AI Technologies for Information Systems and Management Science* Lalit Garg,Nishtha Kesswani,Imene Brigui,Bhupesh Kr. Dewangan,R. N. Shukla,Dilip Singh Sisodia,2024-10-08 This book explores the integration of artificial intelligence into various facets of information systems and management It delves into machine learning natural language processing and computer vision applications illustrating how these technologies revolutionize decision making optimization and data analysis Through case studies and theoretical frameworks the book elucidates the transformative potential of AI in enhancing organizational efficiency and strategic planning making it an essential reading for professionals and researchers navigating the intersection of AI and business This book also highlights the efforts to build ethical norms and frameworks for AI adoption in MIS as well as data privacy and security considerations **Breakthroughs in Software Science and Computational Intelligence** Wang, Yingxu,2012-03-31 This book charts the new ground broken by researchers exploring software science as it interacts with computational intelligence **Intelligent and Soft Computing Systems for Green Energy** A. Chitra,V. Indragandhi,W. Razia Sultana,2023-05-15 INTELLIGENT AND SOFT COMPUTING SYSTEMS FOR GREEN ENERGY Written and edited by some of the world s top experts in the field this exciting new volume provides state of the art research and the latest technological breakthroughs in next generation computing systems for the energy sector striving to bring the science toward sustainability Real world problems need intelligent solutions Across many industries and fields intelligent and soft computing systems using such developing technologies as artificial intelligence and Internet of Things are quickly becoming important tools for scientists engineers and other professionals for solving everyday problems in practical situations This book aims to bring together the research that has been carried out in the field of intelligent and soft computing systems Intelligent and soft computing systems involves expertise from various domains of research such as electrical engineering computer engineering and mechanical engineering This book will serve as a point of convergence wherein all these domains come together The various chapters are configured to address the challenges faced in intelligent and soft computing systems from various fields and possible solutions The outcome of this book can serve as a potential resource for industry professionals and researchers working in the domain of intelligent and soft computing systems To list a few soft computing techniques neural based load forecasting IoT enabled smart grids and blockchain technology for energy trading Whether for the veteran engineer or the student learning the latest breakthroughs this exciting new volume is a must have for any library *Applications of Image Processing and Soft Computing Systems in Agriculture* Razmjooy, Navid,Estrela, Vania Vieira,2019-02-22 The variety and abundance of qualitative characteristics of agricultural products have been the main reasons for the development of different types of non destructive methods NDTs Quality control of these products is one of the most important tasks in manufacturing processes The use of control and automation has become more widespread and new approaches provide opportunities for production competition through new technologies Applications of

Image Processing and Soft Computing Systems in Agriculture examines applications of artificial intelligence in agriculture and the main uses of shape analysis on agricultural products such as relationships between form and genetics adaptation product characteristics and product sorting Additionally it provides insights developed through computer vision techniques Highlighting such topics as deep learning agribusiness and augmented reality it is designed for academicians researchers agricultural practitioners and industry professionals *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 **Cybernetics, Human Cognition, and Machine Learning in Communicative Applications** Vinit Kumar Gunjan,Sabrina Senatore,Amit Kumar,2025-01-09 This book presents the fascinating intersection of human cognition and artificial intelligence Written by leading experts in the fields of cybernetics cognitive science and machine learning this book seeks to bridge the gap between these disciplines and explores the synergies that emerge when humans and machines work together The book examines the challenges posed by biased data lack of transparency and the black box nature of some machine learning algorithms It proposes novel ways to address these issues and foster greater trust and accountability in AI systems Drawing on cutting edge research and real world case studies it presents a comprehensive and forward looking perspective on the future of AI and its impact on society In conclusion this book offers a compelling exploration of the synergy between human cognition and machine learning providing insights that are relevant to scholars researchers policymakers and anyone interested in the transformative potential of artificial intelligence Software Engineer's Reference Book John A McDermid,2013-10-22

Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science

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