STUDIES IN *FUZZINESS* AND *SOFT COMPUTING*

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Editors

# Soft Computing for Intelligent Robotic Systems

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# Soft Computing For Intelligent Robotic Systems

Tatjana Sibalija,J. Paulo Davim

**Soft Computing For Intelligent Robotic Systems:**

*Soft Computing for Intelligent Robotic Systems* Toshio Fukuda,2013-04-17 Research results using some of the most advanced soft computing techniques in intelligent robotic systems are presented The main purpose of this book is to show how the power of soft computing techniques can be exploited in intelligent robotic systems The main emphasis is on control system for a mobile robot behavior arbitration for a mobile robot reinforcement learning of a robot manipulation of a robot collision avoidance and automatic design of robots This book will be useful for application engineers scientists and researchers who wish to use some of the most advanced soft computing techniques in robotics **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 Autonomous Robotic Systems Changjiu Zhou,Darío Maravall,Da Ruan,2013-03-20 This book contains an edited collection of eighteen contributions on soft and hard computing techniques and their applications to autonomous robotic systems Each contribution has been exclusively written for this volume by a leading researcher The volume demonstrates the various ways that the soft computing and hard computing techniques can be used in different integrated manners to better develop autonomous robotic systems that can perform various tasks of vision perception cognition thinking pattern recognition decision making and reasoning and control amongst others Each chapter of the book is self contained and points out the future direction of research It is a must reading for students and researchers interested in exploring the potentials of the fascinating field that will form the basis for the design of the intelligent machines of the future Madan M Gupta **Aspects of Soft Computing, Intelligent Robotics and Control** János Fodor,2009-10-13 Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing

techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this volume leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary computation intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems *Soft Computing in Advanced Robotics* Yong-Tae Kim,Ichiro Kobayashi,Euntai Kim,2014-07-08 Intelligent system and robotics are inevitably bound up intelligent robots makes embodiment of system integration by using the intelligent systems We can figure out that intelligent systems are to cell units while intelligent robots are to body components The two technologies have been synchronized in progress Making leverage of the robotics and intelligent systems applications cover boundlessly the range from our daily life to space station manufacturing healthcare environment energy education personal assistance logistics This book aims at presenting the research results in relevance with intelligent robotics technology We propose to researchers and practitioners some methods to advance the intelligent systems and apply them to advanced robotics technology This book consists of 10 contributions that feature mobile robots robot emotion electric power steering multi agent fuzzy visual navigation adaptive network based fuzzy inference system swarm EKF localization and inspection robot This edition is published in original peer reviewed contributions covering from initial design to final prototypes and authorization Modeling and Simulations of Robotic Systems Using Soft Computing Rega Rajendra,Dilip Kumar Pratihar,2012-10-06 *Aspects of Soft Computing, Intelligent Robotics and Control* János Fodor,2009-08-20 Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this volume leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary

computation intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems **Advances in Soft Computing, Intelligent Robotics and Control** János Fodor,Robert Fullér,2014-03-20 Soft computing intelligent robotics and control are in the core interest of contemporary engineering Essential characteristics of soft computing methods are the ability to handle vague information to apply human like reasoning their learning capability and ease of application Soft computing techniques are widely applied in the control of dynamic systems including mobile robots The present volume is a collection of 20 chapters written by respectable experts of the fields addressing various theoretical and practical aspects in soft computing intelligent robotics and control The first part of the book concerns with issues of intelligent robotics including robust xed point transformation design experimental verification of the input output feedback linearization of differentially driven mobile robot and applying kinematic synthesis to micro electro mechanical systems design The second part of the book is devoted to fundamental aspects of soft computing This includes practical aspects of fuzzy rule interpolation subjective weights based meta learning in multi criteria decision making swarm based heuristics for an area exploration and knowledge driven adaptive product representations The last part addresses different problems issues and methods of applied mathematics This includes perturbation estimates for invariant subspaces of Hessenberg matrices uncertainty and nonlinearity modelling by probabilistic metric spaces and comparison and visualization of the DNA of six primates *Soft Computing for Intelligent Control and Mobile Robotics* Oscar Castillo,Witold Pedrycz,2010-10-05 This book describes in a detailed fashion the application of hybrid intelligent systems using soft computing techniques for intelligent control and mobile robotics Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful hybrid intelligent systems The prudent combination of SC techniques can produce powerful hybrid intelligent systems that are capable of solving real world problems This is illustrated in this book with a wide range of applications with particular emphasis in intelligent control and mobile robotics The book is organized in five main parts which contain a group of papers around a similar subject The first part consists of papers with the main theme of theory and algorithms which are basically papers that propose new models and concepts which can be the basis for achieving intelligent control and mobile robotics The second part contains papers with the main theme of intelligent control which are basically papers using bio inspired techniques like evolutionary algorithms and neural networks for achieving intelligent control of non linear plants The third part contains papers with the theme of optimization of fuzzy controllers which basically consider the application of bio inspired optimization methods to automate the de sign process of optimal type 1 and type 2 fuzzy controllers The fourth part contains papers that deal with the application of SC techniques in times series prediction and intelligent agents The fifth part contains papers with the theme of computer vision and robotics which are papers considering soft computing methods for applications related to vision and robotics Intelligent Robotics and Applications Jeschke Sabina,Honghai Liu,Daniel Schilberg,2011-11-29 The two volume

set LNAI 7101 and 7102 constitute the refereed proceedings of the 4th International Conference on Intelligent Robotics and Applications ICIRA 2011 held in Aachen Germany in November 2011 The 122 revised full papers presented were thoroughly reviewed and selected from numerous submissions They are organized in topical sections on progress in indoor UAV robotics intelligence industrial robots rehabilitation robotics mechanisms and their applications multi robot systems robot mechanism and design parallel kinematics parallel kinematics machines and parallel robotics handling and manipulation tangibility in human machine interaction navigation and localization of mobile robot a body for the brain embodied intelligence in bio inspired robotics intelligent visual systems self optimising production systems computational intelligence robot control systems human robot interaction manipulators and applications stability dynamics and interpolation evolutionary robotics bio inspired robotics and image processing applications **Intelligent Communication and Automation Systems** Kamal Sharma,Akhil Gupta,Bandana Sharma,Suman Lata Tripathi,2021-04-19 This comprehensive reference text discusses concepts of intelligence communication and automation system in a single volume The text discusses the role of artificial intelligence in communication engineering the role of machine learning in communication systems and applications of image and video processing in communication It covers important topics including smart sensing systems intelligent hardware design low power system design using AI techniques intelligent signal processing for biomedical applications intelligent robotic systems and network security applications The text will be useful for senior undergraduate and graduate students in different areas including electrical engineering and electronics and communications engineering **Design and Control of Intelligent Robotic Systems** Dikai Liu,Lingfeng Wang,Kay Chen Tan,2009-03-05 With the increasing applications of intelligent robotic systems in various elds the sign and control of these systems have increasingly attracted interest from researchers This edited book entitled Design and Control of Intelligent Robotic Systems in the book series of Studies in Computational Intelligence is a collection of some advanced research on design and control of intelligent robots The works presented range in scope from design methodologies to robot development Various design approaches and al rithms such as evolutionary computation neural networks fuzzy logic learning etc are included We also would like to mention that most studies reported in this book have been implemented in physical systems An overview on the applications of computational intelligence in bio inspired robotics is given in Chapter 1 by M Begum and F Karray with highlights of the recent progress in bio inspired robotics research and a focus on the usage of computational intelligence tools to design human like cognitive abilities in the robotic systems In Chapter 2 Lisa L Grant and Ganesh K Venayagamoorthy present greedy search particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment with potential applications in high risk tasks such as disaster recovery and hazardous material detection **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 **Multi-Locomotion Robotic Systems** Toshio Fukuda,Yasuhisa Hasegawa,Kosuke Sekiyama,Tadayoshi Aoyama,2012-06-15 Nowadays multiple attention have been paid on a robot working in the human living environment such as in the field of medical welfare entertainment and so on Various types of researches are being conducted actively in a variety of fields such as artificial intelligence cognitive engineering sensor technology interfaces and motion control In the future it is expected to realize super high functional human like robot by integrating technologies in various fields including these types of researches The book represents new developments and advances in the field of bio inspired robotics research introducing the state of the art the idea of multi locomotion robotic system to implement the diversity of animal motion It covers theoretical and computational aspects of Passive Dynamic Autonomous Control PDAC robot motion control multi legged walking and climbing as well as brachiation focusing concrete robot systems components and applications In addition gorilla type robot systems are described as hardware of Multi Locomotion Robotic system It is useful for students and researchers in the field of robotics in general bio inspired robots multi modal locomotion legged walking motion control and humanoid robots Furthermore it is also of interest for lecturers and engineers in practice building systems cooperating with humans **Neuro-Fuzzy Techniques for Intelligent Information Systems** Nikola K. Kasabov,Robert Kozma,1999-03-29 This volume comprises selected chapters that cover contemporary issues of the development and the application of neuro fuzzy techniques Developing and using neural networks fuzzy logic systems genetic algorithms and statistical methods as separate techniques or in their combination have been research topics in several areas such as mathematics engineering computer science physics economics and finance Here the latest results in the fields are

presented from both theoretical and practical point of view The volume has four main parts Part one presents generic techniques and theoretical issues while part two three and four deal with practically oriented models systems and implementations **Proceedings of the ... International Symposium on Micromechatronics and Human Science** ,2002 **MHS2002** ,2002 **Computational Intelligence and Applications** Piotr S. Szczepaniak,1999 The material presented in the book is divided into two main parts Keynotes and Case Studies Five keynotes written by W Pedrycz D Dubois and H Prade M M Gupta P M Frank and T Kaczorek deal with introduction into the concept and basic technologies of computational intelligence CI role of fuzzy logic in information engineering paradigms of fuzzy neural computing intelligent methods in fault diagnosis of technical plants and with models of two dimensional 2D systems which are useful in analysis of methods manifesting the learning ability respectively The second part provides the reader with a sampling of various applications of the methods neural networks genetic algorithms fuzzy and evolutionary systems being the building blocks of the CI However a few contributions exceed this rather stiff frame of CI definition *IROS* ,1999 **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

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