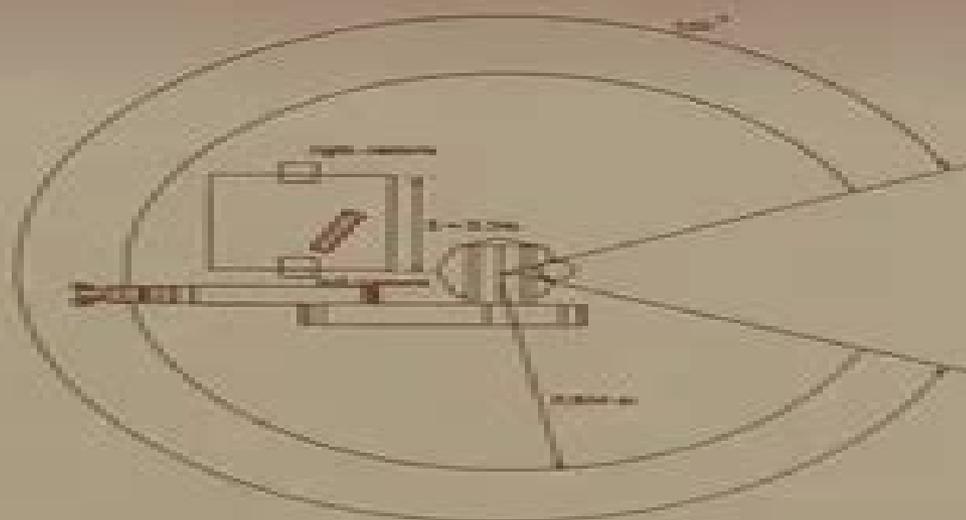


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DESIGN OF INTELLIGENT CONTROL SYSTEMS BASED ON HIERARCHICAL STOCHASTIC AUTOMATA

Pedro U. Lima
George N. Saridis



World Scientific

Design Of Intelligent Control Systems Based On Hierarchical Stochastic Automata

Pedro Lima, George N Saridis



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Saridis, 1996-03-20 In recent years works done by most researchers towards building autonomous intelligent controllers frequently mention the need for a methodology of design and a measure of how successful the final result is This monograph introduces a design methodology for intelligent controllers based on the analytic theory of intelligent machines introduced by Saridis in the 1970s The methodology relies on the existing knowledge about designing the different sub systems composing an intelligent machine Its goal is to provide a performance measure applicable to any of the sub systems and use that measure to learn on line the best among the set of pre designed alternatives given the state of the environment where the machine operates Different designs can be compared using this novel approach **Hierarchically Intelligent Machines**

George N Saridis, 2001-12-28 This book presents the result of 30 years work on the original material related to thinking machines a subject initiated by the author and his colleagues It is based on the ability of the computer to represent the hierarchical procedure of task conception and execution found in human beings It is arranged in three levels representing the structure of organizational systems organization coordination and execution Hierarchically Intelligent Machines can serve as a guide to modern intelligent robots Entropy in Control Engineering George N. Saridis, 2001 This book attempts to couple control engineering with modern developments in science through the concept of entropy Such disciplines as intelligent machines economics manufacturing environmental systems waste etc can be favorably affected and their performance can be improved or their catastrophic effects minimized Entropy is used as the unifying measure of the various seemingly disjoint disciplines to represent the cost of producing work that improves the standard of living both in engineering and in science Modeling is done through probabilistic methods thus establishing the irreversibility of the processes involved This is in accordance with the modern view of science In addition the behavior of control for an arbitrary but fixed controller away from the optimal equilibrium has been obtained the analytic expression of which should lead to chaotic solutions The control activity is explained based on the principle that control is making a system do what we want it to do This helps to relate control theory with the sciences Advanced Manufacturing Processes V Volodymyr

Tonkonogyi, Vitalii Ivanov, Justyna Trojanowska, Gennadii Oborskyi, Ivan Pavlenko, 2023-08-30 This book offers a timely snapshot of innovative research and developments at the interface between design manufacturing materials mechanical and process engineering and quality assurance It covers various manufacturing processes such as grinding milling broaching and gear machining including additive manufacturing vibrational centrifugal strengthening laser ultrasonic surface hardening and antifriction coatings It focuses on computer and numerical simulation mathematical and integrated process modeling parametric synthesis virtual prototyping automatic control design of manufacturing mechanical and mechatronics systems It describes innovative cutting and abrasive processes and combined technologies It also covers the formation strengthening

and thermomechanical rolling It also investigates the temperature field behavior thermal stability wear resistance and other processes of various materials Gathering the best papers presented at the 5th Grabchenko s International Conference on Advanced Manufacturing Processes InterPartner 2023 held on September 5 8 2023 in Odessa Ukraine this book provides a comprehensive and up to date examination of design manufacturing mechanical materials and process engineering as well as quality assurance trends and technologies Yet it also aims at fostering international and interdisciplinary communication and collaborations offering a bridge between the academic and industrial sector

RoboCup-99: Robot Soccer World Cup III Manuela Veloso, Enrico Pagello, Hiroaki Kitano, 2003-07-31 This book is the third official archival publication devoted to RoboCup and documents the achievements presented at the Third Robot World Cup Soccer Games and Conferences Robo Cup 99 held in Stockholm Sweden in July August 1999 The book presents the following parts Introductory overview and survey Research papers of the champion teams and scientific award winners Technical papers presented at the RoboCup 99 Workshop Team description of a large number of participating teams This book is mandatory reading for the rapidly growing RoboCup community as well as a valuable source or reference and inspiration for R D professionals interested in multi agent systems distributed artificial intelligence and intelligent robotics

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library

Proceedings of the ... ASME Design Engineering Technical Conferences, 2005 **25th Computers and Information in Engineering Conference**, 2005 **RoboCup ...**, 1999 Progress in Artificial Intelligence Carlos Pinto-Ferreira, 1995-09-22 This book presents the refereed proceedings of the 7th Portuguese Conference on Artificial Intelligence EPIA 95 held in Funchal Madeira Island Portugal in October 1995

The 30 revised full papers and the 15 poster presentations included were selected during a highly competitive selection process from a total of 167 submissions from all over the world Among the topics covered are automated reasoning and theorem proving belief revision constraint based reasoning distributed artificial intelligence genetic algorithms machine learning neural networks non monotonic reasoning planning and case based reasoning qualitative reasoning robotics and control and theory of computation

Proceedings of the 1995 IEEE International Symposium on Intelligent Control IEEE,IEEE, Society Staff,1995-08

Who's Who in Finance and Business Marquis Who's Who, LLC,National Register Publishing,2005-12

Mathematical Reviews ,2007

Proceedings of the 5th International Conference on Properties and Applications of Dielectric Materials The Korean Institute of Electrical and Electronic Material Engineers,1997

American Book Publishing Record ,1996

Introduction to Intelligent and Autonomous Control Panos J. Antsaklis, Kevin M. Passino,1993

The area of intelligent control is a fusion of a number of research areas in engineering computer science and mathematics which has evolved from conventional control to enhance the existing nonlinear optimal adaptive and stochastic control methods Intelligent control techniques are currently being utilized for closed loop feedback control in space based applications manufacturing systems robotic systems avionic systems among others to improve system performance reliability and efficiency Overall the primary objective of intelligent control is to enhance the performance of the system to the extent that it achieves some level of autonomous control

Expert Systems Cornelius T. Leondes,2002

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Proceedings of the 1992 IEEE International Symposium on Intelligent Control IEEE Control Systems Society,1992

International Aerospace Abstracts ,1999

Progress in Artificial Intelligence ,1995

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