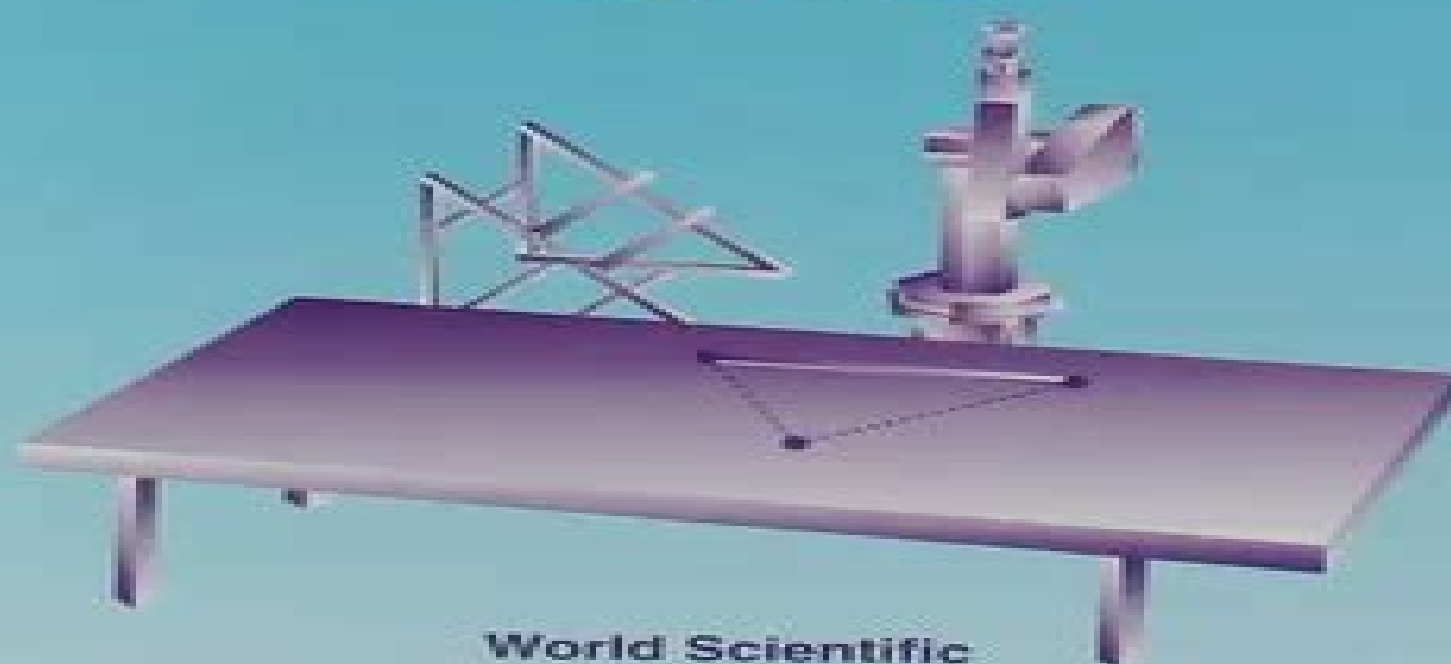


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Vol. 1

RELIABLE PLAN SELECTION BY INTELLIGENT MACHINES

John E. McInroy
Joseph C. Musto
George N. Saridis



World Scientific

Reliable Plan Selection By Intelligent Machines

**Neelu Nagpal, Hassan Haes
Alhelou, Pierluigi Siano, Sanjeevikumar
Padmanaban, D. Lakshmi**

Reliable Plan Selection By Intelligent Machines:

Reliable Plan Selection By Intelligent Machines John E McInroy, Joseph C Musto, George N Saridis, 1996-02-29 This book derives techniques which allow reliable plans to be automatically selected by Intelligent Machines It concentrates on the uncertainty analysis of candidate plans so that a highly reliable candidate may be identified and used For robotic components such as a particular vision algorithm for pose estimation or a joint controller methods are explained for directly calculating the reliability However these methods become excessively complex when several components are used together to complete a plan Consequently entropy minimization techniques are used to estimate which complex tasks will perform reliably The book first develops tools for directly calculating the reliability of sub systems and methods of using entropy minimization to greatly facilitate the analysis are explained Since these sub systems are used together to accomplish complex tasks the book then explains how complex tasks can be efficiently evaluated [Design Of Intelligent Control Systems Based On Hierarchical Stochastic Automata](#)

Pedro Lima, George N 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

Advances in Computational Intelligence Fei-Yue Wang, Derong Liu, 2006 Computational Intelligence CI is a recently emerging area in fundamental and applied research exploiting a number of advanced information processing technologies that mainly embody neural networks fuzzy logic and evolutionary computation With a major concern to exploiting the tolerance for imperfection uncertainty and partial truth to achieve tractability robustness and low solution cost it becomes evident that composing methods of CI should be working concurrently rather than separately It is this conviction that research on the synergism of CI paradigms has experienced significant growth in the last decade with some areas nearing maturity while many others remaining unresolved This book systematically summarizes the latest findings and sheds light on the respective fields that might lead to future breakthroughs

Advances In Computational Intelligence: Theory And Applications Fei-yue Wang, Derong Liu, 2006-06-02 Computational Intelligence CI is a recently emerging area in fundamental and applied research exploiting a number of advanced information processing technologies that mainly embody neural networks fuzzy logic and evolutionary computation With a major concern to exploiting the tolerance for imperfection uncertainty and partial truth to achieve tractability robustness and low solution cost it becomes evident that composing methods of CI should be working concurrently rather than separately It is this conviction that research on the

synergism of CI paradigms has experienced significant growth in the last decade with some areas nearing maturity while many others remaining unresolved This book systematically summarizes the latest findings and sheds light on the respective fields that might lead to future breakthroughs

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

Autonomous Rock Excavation Xiaobo Shi, Paul J. A. Lever, Fei-Yue Wang, 1998 Expensive and sophisticated machines such as wheel loaders are used for earth moving This book presents a robotic control approach to the computer control of wheel loader type excavators The unpredictable and dynamic rock excavation environment poses challenges for the design of the real time control algorithm The control method developed here is based on the analysis of human operators performance it applies neural networks fuzzy logic and finite state machines to embody human excavation strategies for on line bucket digging trajectory design A behavior based control architecture organizes operation of the modules to achieve quick system response

Multisensor Fusion Rajive Joshi, Arthur C. Sanderson, 1999 The fusion of information from sensors with different physical characteristics such as sight touch sound etc enhances the understanding of our surroundings and provides the basis for planning decision making and control of autonomous and intelligent machines The minimal representation approach to multisensor fusion is based on the use of an information measure as a universal yardstick for fusion Using models of sensor uncertainty the representation size guides the integration of widely varying types of data and maximizes the information contributed to a consistent interpretation In this book the general theory of minimal representation multisensor fusion is developed and applied in a series of experimental studies of sensor based robot manipulation A novel application of differential evolutionary computation is introduced to achieve practical and effective solutions to this difficult computational problem

Modeling, Simulation, And Control Of Flexible Manufacturing Systems: A Petri Net Approach Kurapati Venkatesh, Mengchu Zhou, 1999-01-29 One critical barrier leading to successful implementation of flexible manufacturing and related automated systems is the ever increasing complexity of their modeling analysis simulation and control Research and development over the last three decades has provided new theory and graphical tools based on Petri nets and related concepts for the design of such systems

The purpose of this book is to introduce a set of Petri net based tools and methods to address a variety of problems associated with the design and implementation of flexible manufacturing systems FMSs with several implementation examples There are three ways this book will directly benefit readers First the book will allow engineers and managers who are responsible for the design and implementation of modern manufacturing systems to evaluate Petri nets for applications in their work Second it will provide sufficient breadth and depth to allow development of Petri net based industrial applications Third it will allow the basic Petri net material to be taught to industrial practitioners students and academic researchers much more efficiently This will foster further research and applications of Petri nets in aiding the successful implementation of advanced manufacturing systems

Advanced Studies Of Flexible Robotic Manipulators: Modeling, Design, Control And Applications Yanqing Gao, Fei-yue Wang, 2003-08-14 Flexible robotic manipulators pose various challenges in research as compared to rigid robotic manipulators ranging from system design structural optimization and construction to modeling sensing and control Although significant progress has been made in many aspects over the last one and a half decades many issues are not resolved yet and simple effective and reliable controls of flexible manipulators still remain an open quest Clearly further efforts and results in this area will contribute significantly to robotics particularly automation as well as its application and education in general control engineering To accelerate this process the leading experts in this important area present in this book the state of the art in advanced studies of the design modeling control and applications of flexible manipulators

Network-based Distributed Planning Using Coevolutionary Algorithms Raj Subbu, Arthur C. Sanderson, 2004 In this book efficient and scalable coevolutionary algorithms for distributed network based decision making which utilize objective functions are developed in a networked environment where internode communications are a primary factor in system performance A theoretical foundation for this class of coevolutionary algorithms is introduced using techniques from stochastic process theory and mathematical analysis A case study in distributed network based decision making presents an implementation and detailed evaluation of the coevolutionary decision making framework that incorporates distributed evolutionary agents and mobile agents The methodology discussed in this book can have a fundamental impact on the principles and practice of engineering in the distributed network based environment that is emerging within and among corporate enterprise systems In addition the conceptual framework of the approach to distributed decision systems described may have much wider implications for network based systems and applications

Issues in Artificial Intelligence, Robotics and Machine Learning: 2013 Edition , 2013-05-01 *Issues in Artificial Intelligence Robotics and Machine Learning 2013 Edition* is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Expert Systems The editors have built *Issues in Artificial Intelligence Robotics and Machine Learning 2013 Edition* on the vast information databases of ScholarlyNews You can expect the information about Expert Systems in this book to be deeper than what you can access anywhere else as well as consistently reliable

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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

Intelligent Task Planning Using Fuzzy Petri Nets Tiehua Cao,Arthur C. Sanderson,1996 This book describes an approach to intelligent task planning in a robotic system Petri net and fuzzy logic are integrated and used to represent task sequence planning and error recovery During the generation and execution of task plans different kinds of uncertainties need to be handled to ensure the efficiency and reliability of the system Following a systematic modeling procedure a fuzzy Petri net is constructed based on geometric relations fuzzy variables and reasoning structures The resulting net can be used to analyze and control the system Many examples are discussed to illustrate the theory and the applications of fuzzy Petri nets

Intelligent Systems: Safety, Reliability and Maintainability Issues Okayay Kaynak,Ger Honderd,Edward Grant,2012-12-06 This book is a collection of some of the papers that were presented during a NATO Advanced Research Workshop ARW on Intelligent Systems Safety Reliability and Maintainability Issues that was held in Kusadasi Turkey during August 24 28 1992 Attendance at this workshop was mainly by invitation only drawing people internationally representing industry government and the academic community Many of the participants were internationally recognized leaders in the topic of the workshop The purpose of the ARW was to bring together a highly distinguished group of people with the express purpose of debating where the issues of safety reliability and maintainability place direct and tangible constraints on the development of intelligent systems As a consequence one of the major debating points in the ARW was the definition of intelligence intelligent behaviour and their relation to complex dynamic systems Two major conclusions evolved from the ARW are 1 A continued need exists to develop formal theoretical frameworks for the architecture of such systems together with a reflection on the concept of intelligence 2 There is a need to focus greater attention to the role that the human play in controlling intelligent systems The workshop began by considering the typical features of an intelligent system The complexity associated with multi resolutional architectures was then discussed leading to the identification of a necessity for the use of a combinatorial synthesis approach This was followed by a session on human interface issues

Advanced Robotics & Intelligent Machines J. O. Gray,Darwin G. Caldwell,1996 Advanced robotics describes the use of sensor based robotic devices which exploit powerful computers to achieve the high levels of functionality that begin to mimic intelligent human behaviour The object of this book is to summarise developments in the base technologies survey

recent applications and highlight new advanced concepts which will influence future progress *Who's Who in Finance and Business* Marquis Who's Who, LLC, National Register Publishing, 2005-12 Quality, Reliability and Maintenance 2004 G. J. McNulty, 2004-05-21 The papers included in this volume were presented at the 5th international conference on Quality Reliability and Maintenance which took place at the University of Oxford in April 2004 They highlight the importance of the QRM disciplines and represent the latest developments trends and progress and are essential reference material for all research academics quality planners maintenance executives and personnel who have the responsibility to implement the findings of quality audits and maintenance policy Quality Reliability and Maintenance be it in industry commerce education or academia influences and guides every contemporary aspect of our lives This collection of papers includes topics such as Quality Analysis Condition Monitoring Maintenance Management Computer Applications Education and Training Research Applications

The Era of Artificial Intelligence, Machine Learning, and Data Science in the Pharmaceutical Industry Stephanie K. Ashenden, 2021-04-23 The Era of Artificial Intelligence Machine Learning and Data Science in the Pharmaceutical Industry examines the drug discovery process assessing how new technologies have improved effectiveness Artificial intelligence and machine learning are considered the future for a wide range of disciplines and industries including the pharmaceutical industry In an environment where producing a single approved drug costs millions and takes many years of rigorous testing prior to its approval reducing costs and time is of high interest This book follows the journey that a drug company takes when producing a therapeutic from the very beginning to ultimately benefitting a patient's life This comprehensive resource will be useful to those working in the pharmaceutical industry but will also be of interest to anyone doing research in chemical biology computational chemistry medicinal chemistry and bioinformatics Demonstrates how the prediction of toxic effects is performed how to reduce costs in testing compounds and its use in animal research Written by the industrial teams who are conducting the work showcasing how the technology has improved and where it should be further improved Targets materials for a better understanding of techniques from different disciplines thus creating a complete guide

Applications of Big Data and Artificial Intelligence in Smart Energy Systems Neelu Nagpal, Hassan Haes Alhelou, Pierluigi Siano, Sanjeevikumar Padmanaban, D. Lakshmi, 2023-09-29 In the era of propelling traditional energy systems to evolve towards smart energy systems including power generation energy storage systems and electricity consumption have become more dynamic The quality and reliability of power supply are impacted by the sporadic and rising use of electric vehicles domestic loads and industrial loads Similarly with the integration of solid state devices renewable sources and distributed generation power generation processes are evolving in a variety of ways Several cutting edge technologies are necessary for the safe and secure operation of power systems in such a dynamic setting including load distribution automation energy regulation control and energy trading This book covers the applications of various big data analytics artificial intelligence and machine learning technologies in smart grids for demand prediction decision making

processes policy and energy management The book delves into the new technologies for modern power systems such as the Internet of Things Blockchain for smart home and smart city solutions in depth Technical topics discussed in the book include Hybrid smart energy system technologies Smart meters Energy demand forecasting Use of different protocols and communication in smart energy systems Power quality and allied issues and mitigation using AI Intelligent transportation Virtual power plants AI based smart energy business models Smart home solutions Blockchain solutions for smart grids

Applications of artificial intelligence, machine learning, and deep learning in plant breeding Maliheh Eftekhari, Chuang Ma, Yuriy L. Orlov, 2024-05-29 Artificial Intelligence AI is an extensive concept that can be interpreted as a concentration on designing computer programs to train machines to accomplish functions like or better than humans An important subset of AI is Machine Learning ML in which a computer is provided with the capacity to learn its own patterns instead of the patterns and restrictions set by a human programmer thus improving from experience Deep Learning DL as a class of ML techniques employs multilayered neural networks The application of AI to plant science research is new and has grown significantly in recent years due to developments in calculation power proficiencies of hardware and software progress AI algorithms try to provide classifications and predictions As applied to plant breeding particularly omics data ML as a given AI algorithm tries to translate omics data which are intricate and include nonlinear interactions into precise plant breeding The applications of AI are extending rapidly and enhancing intensely in sophistication owing to the capability of rapid processing of huge and heterogeneous data The conversion of AI techniques into accurate plant breeding is of great importance and will play a key role in the new era of plant breeding techniques in the coming years particularly multi omics data analysis Advancements in plant breeding mainly depend upon developing statistical methods that harness the complicated data provided by analytical technologies identifying and quantifying genes transcripts proteins metabolites etc The systems biology approach used in plant breeding which integrates genomics transcriptomics proteomics metabolomics and other omics data provides a massive amount of information It is essential to perform accurate statistical analyses and AI methods such as ML and DL as well as optimization techniques to not only achieve an understanding of networks regulation and plant cell functions but develop high precision models to predict the reaction of new Genetically Modified GM plants in special conditions The constructed models will be of great economic importance significantly reducing the time labor and instrument costs when finding optimized conditions for the bio exploitation of plants This Research Topic covers a wide range of studies on artificial intelligence assisted plant breeding techniques which contribute to plant biology and plant omics research The relevant sub topics include but are not restricted to the following AI assisted plant breeding using omics and multi omics approaches Applying AI techniques along with multi omics to recognize novel biomarkers associated with plant biological activities Constructing up to date ML modeling and analyzing methods for dealing with omics data related to different plant growth processes AI assisted omics techniques in the plant defense process Combining AI assisted omics and

multi omics techniques using plant system biology approaches Combining bioinformatics tools with AI approaches to analyze plant omics data Designing cutting edge workflow and developing innovative AI biology methods for omics data analysis

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