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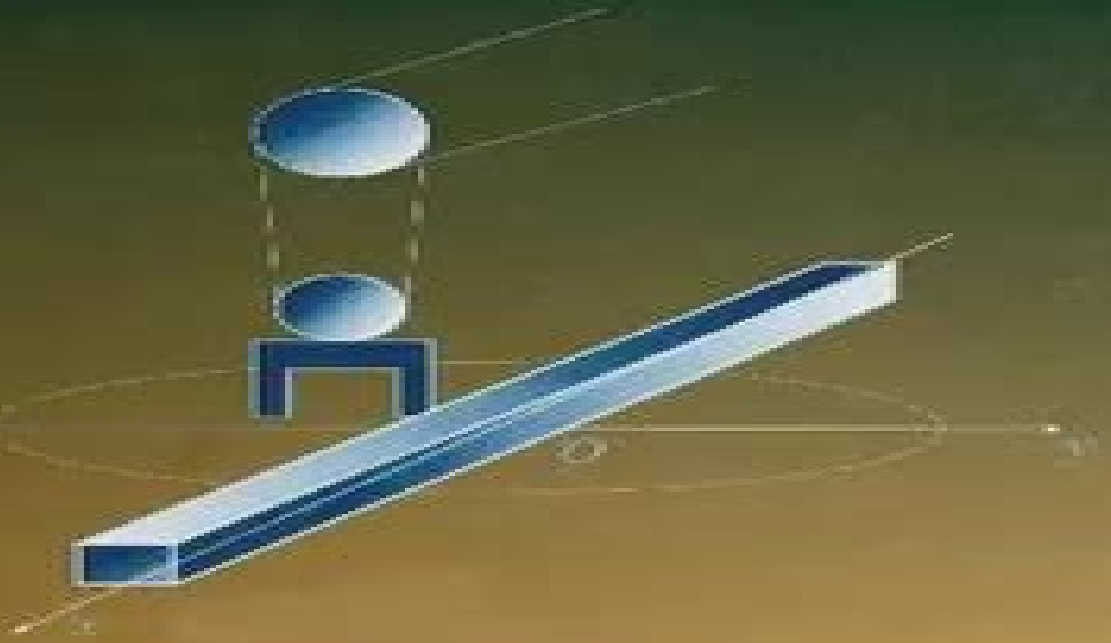
INTELLIGENT TASK PLANNING USING FUZZY PETRI NETS

Tiehua Cao
Arthur C Sanderson



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Intelligent Task Planning Using Fuzzy Petri Nets

Paul Lever,Fei-yue Wang,Xiaobo Shi

Intelligent Task Planning Using Fuzzy Petri Nets:

Intelligent Task Planning Using Fuzzy Petri Nets Tom Tiehua Cao,Arthur C Sanderson,1996-08-23 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 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 *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

Encyclopedia of Artificial Intelligence Rabuñal Dopico, Juan Ramón,Dorado, Julian,Pazos, Alejandro,2008-07-31 This book is a comprehensive and in depth reference to the most recent developments in the field covering theoretical developments techniques technologies among others Provided by publisher *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

Reliable Plan Selection By Intelligent Machines John E Mclnroy,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 **System Modeling and Control with Resource-Oriented Petri Nets** MengChu Zhou,Naiqi Wu,2018-09-03 Petri nets are widely used in modeling analysis and control of discrete event systems arising from manufacturing transportation computer and communication networks and web service systems However Petri net models for practical systems can be very large making it difficult to apply such models to real life problems System Modeling and Control with Resource Oriented Petri Nets introduces a new resource oriented Petri net ROPN model that was developed by the authors Not only does it successfully reduce model size but it also offers improvements that facilitate effective modeling analysis and control of automated and reconfigurable manufacturing systems Presenting the latest research in this novel approach this cutting edge volume provides proven theories and methodologies for implementing cost and time saving improvements to contemporary manufacturing systems It provides effective tools for deadlock avoidance deadlock free routing and deadlock free scheduling The authors supply simple and complex industrial manufacturing system examples to illustrate time tested concepts theories and approaches for solving real life application problems Written in a clear and concise manner the text covers applications to automated and reconfigurable manufacturing systems automated guided vehicle AGV systems semiconductor manufacturing systems and flexible assembly systems Explaining complex concepts in a manner that is easy to understand the authors provide the understanding and tools needed for more effective modeling analysis performance evaluation control and scheduling of engineering processes that will lead

to more flexible and efficient manufacturing systems 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 **Autonomous Rock Excavation, Intelligent Control Techniques And Experimentation** Paul Lever,Fei-yue Wang,Xiaobo Shi,1998-07-10 Earth moving is a common activity at mines construction sites hazardous waste cleanup locations and road works 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 Extensive experiments have been performed to demonstrate the diggability of the algorithm in various difficult to excavate environments **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 *Systems Biology for Signaling Networks* Sangdun Choi,2010-08-09 System Biology encompasses the knowledge from diverse fields such as Molecular Biology Immunology Genetics Computational Biology Mathematical Biology etc not only to address key questions that are not answerable by individual fields alone but also to help in our understanding of the complexities of biological systems Whole genome expression studies have provided us the means of studying the expression of thousands of genes under a particular condition and this technique had been widely used to find out the role of key macromolecules that are involved in biological signaling pathways However making sense of the underlying complexity is only possible if we interconnect various signaling pathways into human and computer readable network maps These maps can then be used to classify and study individual components involved in a particular phenomenon Apart from transcriptomics several individual gene studies have resulted in adding to our knowledge of key components that are involved in a signaling pathway It therefore becomes imperative to take into account of these studies also while constructing our network maps to highlight the interconnectedness of the entire

signaling pathways and the role of that particular individual protein in the pathway This collection of articles will contain a collection of pioneering work done by scientists working in regulatory signaling networks and the use of large scale gene expression and omics data The distinctive features of this book would be Act a single source of information to understand the various components of different signaling network roadmap of biochemical pathways the nature of a molecule of interest in a particular pathway etc Serve as a platform to highlight the key findings in this highly volatile and evolving field and Provide answers to various techniques both related to microarray and cell signaling to the readers *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,2001-02-22 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 *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 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 Artificial Intelligence in Control and Decision-making Systems Yuriy P. Kondratenko,Vladik Kreinovich,Witold Pedrycz,Arkadii Chikrii,Anna M. Gil-Lafuente,2023-04-17 This book presents an authoritative collection of contributions reporting on computational intelligence fuzzy systems as well as artificial intelligence techniques for modeling optimization control and decision making together with applications and case studies in engineering management and economic sciences Dedicated to the Academician of the Polish Academy of Sciences Professor Janusz Kacprzyk in recognition of his pioneering work the book reports on theories methods and new challenges in artificial intelligence thus offering not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike The book consists of the 18 chapters presented by distinguished and experienced authors from 16 different countries Australia Brazil Canada Chile Germany Hungary Israel Italy China R N Macedonia Saudi Arabia Spain Turkey United States Ukraine and Vietnam All chapters are grouped into three parts Computational Intelligence and Fuzzy Systems Artificial Intelligence Techniques in Modelling and Optimization and Computational Intelligence in Control and Decision Support Processes The book reflects recent developments and new directions in artificial intelligence including computation method of the interval hull to solutions of interval and fuzzy interval linear systems fuzzy Petri networks in supervisory control of Markov processes in robotic systems fuzzy approaches for linguistic data summaries first approximation analysis for choosing fuzzy or neural systems and type 1

or type 2 fuzzy sets matrix resolving functions in game dynamic problems evolving stacking neuro fuzzy probabilistic networks and their combined learning in online pattern recognition tasks structural optimization of fuzzy control and decision making systems neural and granular fuzzy adaptive modeling state and action abstraction for search and reinforcement learning algorithms Among the most successful and perspective implementations in practical areas of human activity are tentative algorithms for neurological disorders human centric question answering system OWA operators in pensions evaluation of the perception of public safety through fuzzy and multi criteria approach a multicriteria hierarchical approach to investment location choice intelligent traffic signal control and generative adversarial networks in cybersecurity

Introduction to Service Engineering Waldemar Karwowski,2010-01-12 What you need to know to engineer the global service economy As customers and service providers create new value through globally interconnected service enterprises service engineers are finding new opportunities to innovate design and manage the service operations and processes of the new service based economy Introduction to Service Engineering provides the tools and information a service engineer needs to fulfill this critical new role The book introduces engineers as well as students to the fundamentals of the theory and practice of service engineering covering the characteristics of service enterprises service design and operations customer service and service quality web based services and innovations in service systems Readers explore such key aspects of service engineering as The role of service science in developing a smarter planet Service enterprises including enterprise value creation architecture of service organizations service enterprise modeling and the application of methods of systems engineering to services Service design including collaborative e service systems and the new service development process Service operations and management including service call centers Service quality from design operations to customer relations Web based services and technology in the global e organization Innovation in service systems from service engineering to integrative solutions service oriented architecture solutions and technology transfer streams With chapters written by fifty seven specialists and edited by bestselling authors Gavriel Salvendy and Waldemar Karwowski Introduction to Service Engineering uses numerous examples problems and real world case studies to help readers master the knowledge and the skills required to succeed in service engineering **Computational Intelligence: Soft Computing and Fuzzy-Neuro Integration with Applications** Okyay Kaynak,Lotfi A. Zadeh,Burhan Türksen,Imre J. Rudas,2012-12-06 Soft computing is a consortium of computing methodologies that provide a foundation for the conception design and deployment of intelligent systems and aims to formalize the human ability to make rational decisions in an environment of uncertainty and imprecision This book is based on a NATO Advanced Study Institute held in 1996 on soft computing and its applications The distinguished contributors consider the principal constituents of soft computing namely fuzzy logic neurocomputing genetic computing and probabilistic reasoning the relations between them and their fusion in industrial applications Two areas emphasized in the book are how to achieve a synergistic combination of the main constituents of soft computing and

how the combination can be used to achieve a high Machine Intelligence Quotient **Advances in Rehabilitation Robotics** Z. Zenn Bien,Dimitar Stefanov,2004-06-24 One of the major application targets of service robots is to use them as assistive devices for rehabilitation This book introduces some latest achievements in the field of rehabilitation robotics and assistive technology for people with disabilities and aged people The book contains results from both theoretical and experimental works and reviews on some new advanced rehabilitation devices which has been recently transferred to the industry Significant parts of the book are devoted to the assessment of new rehabilitation technologies the evaluation of prototype devices with end users the safety of rehabilitation robots and robot assisted neurorehabilitation The book is a representative selection of the latest trends in rehabilitation robotics and can be used as a reference for teaching on mechatronic devices for rehabilitation

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