

Utilizing Problem Structure in Local Search: The Planning Benchmarks as a Case Study

Jörg Hoffmann

Alberts-Ludwigs-University Freiburg

Utilizing Problem Structure In Planning A Local Search Approach

SJ Ball



Utilizing Problem Structure In Planning A Local Search Approach:

Utilizing Problem Structure in Planning Jrg Hoffmann, 2003-10-10 Planning is a crucial skill for any autonomous agent be it a physically embedded agent such as a robot or a purely simulated software agent For this reason planning as a central research area of artificial intelligence from its beginnings has gained even more attention and importance recently After giving a general introduction to AI planning the book describes and carefully evaluates the algorithmic techniques used in fast forward planning systems FF demonstrating their excellent performance in many wellknown benchmark domains In advance an original and detailed investigation identifies the main patterns of structure which cause the performance of FF categorizing planning domains in a taxonomy of different classes with respect to their aptitude for being solved by heuristic approaches such as FF As shown the majority of the planning benchmark domains lie in classes which are easy to solve

KI 2011: Advances in Artificial Intelligence Joscha Bach, Stefan Edelkamp, 2011-10-01 This book constitutes the refereed proceedings of the 34th Annual German Conference on Artificial Intelligence KI 2011 held in Berlin Germany in October 2011 The 32 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 81 submissions The papers are divided in topical sections on computational learning and datamining knowledge representation and reasonings augmented reality swarm intelligence and planning and scheduling *Multi-Robot Task Allocation for Inspection Problems with Cooperative Tasks Using Hybrid Genetic Algorithms* Liu, Chun, 2014 In this dissertation methods for optimal multi robot task allocation MRTA for industrial plant inspection are investigated MRTA involves distributing and scheduling a set of tasks for a group of robots to minimize the total cost taking into account operational constraints With technical progress and declining cost of robotic mobility interest in industrial mobile robotics has grown significantly in recent years Many efforts have been devoted to mobility related problems such as self localization and mapping though only few studies deal with the optimal task allocation in multi robot systems Since a good task allocation provides more efficient scheduling e g less cost shorter time the objective of this research is to develop search optimization methods for inspection problems that involve both single and two robot tasks

Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez, 2007-05-15 Delineating the tremendous growth in this area the Handbook of Approximation Algorithms and Metaheuristics covers fundamental theoretical topics as well as advanced practical applications It is the first book to comprehensively study both approximation algorithms and metaheuristics Starting with basic approaches the handbook presents the methodologies to design and analyze efficient approximation algorithms for a large class of problems and to establish inapproximability results for another class of problems It also discusses local search neural networks and metaheuristics as well as multiobjective problems sensitivity analysis and stability After laying this foundation the book applies the methodologies to classical problems in combinatorial optimization computational geometry and graph problems In addition it explores large scale and emerging applications in networks bioinformatics VLSI game theory and data analysis

Undoubtedly sparking further developments in the field this handbook provides the essential techniques to apply approximation algorithms and metaheuristics to a wide range of problems in computer science operations research computer engineering and economics Armed with this information researchers can design and analyze efficient algorithms to generate near optimal solutions for a wide range of computational intractable problems

Formal Methods in Manufacturing Systems: Recent Advances Li, Zhiwu, 2013-05-31 Evolving technologies in mass production have led to the development of advanced techniques in the field of manufacturing These technologies can quickly and effectively respond to various market changes necessitating processes that focus on small batches of multiple products rather than large single product lines Formal Methods in Manufacturing Systems Recent Advances explores this shifting paradigm through an investigation of contemporary manufacturing techniques and formal methodologies that strive to solve a variety of issues arising from a market environment that increasingly favors flexible systems over traditional ones This book will be of particular use to industrial engineers and students of the field who require a detailed understanding of current trends and developments in manufacturing tools This book is part of the Advances in Civil and Industrial Engineering series collection

Proceedings of the Twenty-second AAI Conference on Artificial Intelligence, 2007

Decision-Making Models Tofigh Allahviranloo, Witold Pedrycz, Amir Seyyedabbasi, 2024-07-24 Decision Making Models A Perspective of Fuzzy Logic and Machine Learning presents the latest developments in the field of uncertain mathematics and decision science The book aims to deliver a systematic exposure to soft computing techniques in fuzzy mathematics as well as artificial intelligence in the context of real life problems and is designed to address recent techniques to solving uncertain problems encountered specifically in decision sciences Researchers professors software engineers and graduate students working in the fields of applied mathematics software engineering and artificial intelligence will find this book useful to acquire a solid foundation in fuzzy logic and fuzzy systems optimization problems and artificial intelligence practices as well as how to analyze IoT solutions with applications and develop decision making mechanisms realized under uncertainty Introduces mathematics of intelligent systems which provides the usage of mathematical rigor such as precise definitions theorems results and proofs Provides extended and new comprehensive methods which can be used efficiently in a fuzzy environment as well as optimization problems and related fields Covers applications and elaborates on the usage of the developed methodology in various fields of industry such as software technologies biomedicine image processing and communications

Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with

entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling *ECAI 2020* Giuseppe De Giacomo, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, Jérôme Lang, 2020-09-15 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

Optimization and Computing using Intelligent Data-Driven Approaches for Decision-Making

Irfan Ali, Umar Muhammad Modibbo, Asaju La'aro Bolaji, Harish Garg, 2024-12-26 This book comprehensively discusses nature inspired algorithms deep learning methods applications of mathematical programming and artificial intelligence techniques It further covers important topics such as the use of machine learning and the Internet of Things and multi objective optimization under Fermatean hesitant fuzzy and uncertain environment This book Addresses solving practical problems such as supply chain management smart manufacturing and healthcare analytics using intelligent computing and discusses solving the fuzzy inference system in ant colony optimization for traveling salesman problem Presents an overview of artificial intelligence AI and explainable AI decision making XAIDM and illustrates a data driven optimization concept for modeling environmental and economic sustainability Discusses machine learning based multi objective optimization technique for load balancing in integrated fog cloud environment Explains the use of heuristics and metaheuristics in supply chain networks and the use of fuzzy optimization in sustainable development goals Discusses sustainable transit of hazardous waste green fractional transportation system perishable inventory M estimation of functional regression operator and intuitionistic fuzzy sets applications The text is primarily written for graduate students and academic researchers in diverse fields including operations research mathematics statistics computer science information and communication technology and industrial engineering

Integrating meta-heuristics and a Sarsa algorithm for disassembly scheduling problems

with cycle time and hazard coefficients Dachao Li, Kaizhou Gao, Yaxian Ren, Ruixue Zhang, Yaping Fu, 2024-01-29 End of life products recycling can reduce the waste of resources and disassembly line scheduling planning can effectively improve the recycling efficiency and reduce the pollution of the environment This work addresses a bi objective disassembly line scheduling problem with considering time interference between tasks The weighted sum of the cycle time and hazard coefficients is optimized First a mathematical model of the disassembly line scheduling problem is established under the constraints of priority and time interference relationships Second four meta heuristics are improved to solve the concerned problems including particle swarm optimization artificial bee colony genetic algorithm and variable neighborhood search Ten objective oriented local search operations are designed for improving meta heuristics performance A reinforcement learning algorithm Sarsa is employed to guide task assignment among workstations and local search selection during iterations respectively Finally experiments are carried out for 10 instances with different scales The effectiveness of the improving strategies is verified the meta heuristics combined with Sarsa based task assignment and local search strategies has better robustness and stability than the classical ones Comparisons and discussions show that the particle swarm optimization with improved strategies outperforms other algorithms *1996 IEEE International Conference on Systems, Man and Cybernetics*, 1996 **Proceedings of the ... IEEE Conference on Evolutionary Computation**, 1998 **Proceedings of the ... International Joint Conference on Artificial Intelligence**, 1999 *American Book Publishing Record*, 2004 **The British National Bibliography** Arthur James Wells, 2003 *IEEE International Conference on Evolutionary Computation*, 1998 **IJCAI-99** Thomas L. Dean, 1999 **1998 IEEE International Conference on Evolutionary Computation Proceedings** IEEE Neural Networks Council, 1998 This collection of papers from the ICEC conference covers a wide range of aspects of evolutionary computing This includes principles of evolutionary computation such as adaptation and self adaption variation operators representational issues and theoretical investigations **Dissertation Abstracts International**, 2008

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Utilizing Problem Structure In Planning A Local Search Approach**

In a global inundated with monitors and the cacophony of instantaneous transmission, the profound energy and emotional resonance of verbal beauty usually diminish into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, nestled within the lyrical pages of **Utilizing Problem Structure In Planning A Local Search Approach**, a charming perform of fictional brilliance that impulses with raw emotions, lies an unforgettable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that mesmerizing opus manuals readers on a psychological odyssey, lightly revealing the latent possible and profound influence embedded within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect their fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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