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Dial-a-ride Problem *A Tabu Search Algorithm for the Symmetric Generalized Traveling Salesman Problem* Tabu Search Algorithm for Single
Resource-constrained Project Scheduling **A Tabu-search-based Algorithm for Surface Inspection**

Tabu Search Algorithm for Single Resource-constrained Project Scheduling Nov 17 2019 Vi, 69 leaves : ill. ; 30 cm.

A Fast Tabu Search Algorithm for the No-wait Job Shop Problem Jun 24 2020

Solving Nonlinear Combinatorial Optimization Problems with a Cooperative Genetic Algorithm and Tabu Search Meta-heuristic Nov 22 2022

A Tabu Search Algorithm for Assembly Tolerance Allocation Jun 05 2021

Search Methodologies May 04 2021 The first edition of *Search Methodologies: Introductory Tutorials in Optimization and Decision Support Techniques* was originally put together to offer a basic introduction to the various search and optimization techniques that students might need to use during their research, and this new edition continues this tradition. *Search Methodologies* has been expanded and brought completely up to date, including new chapters covering scatter search, GRASP, and very large neighborhood search. The chapter authors are drawn from across Computer Science and Operations Research and include some of the world's leading authorities in their field. The book provides useful guidelines for implementing the methods and frameworks described and offers valuable tutorials to students and researchers in the field. "As I embarked on the pleasant journey of reading through the chapters of this book, I became convinced that this is one of the best sources of introductory material on the search methodologies topic to be found. The book's subtitle, "Introductory Tutorials in Optimization and Decision Support Techniques", aptly describes its aim, and the editors and contributors to this volume have achieved this aim with remarkable success. The chapters in this book are exemplary in giving useful guidelines for implementing the methods and frameworks described." Fred Glover, Leeds School of Business, University of Colorado Boulder, USA "[The book] aims to present a series of well written tutorials by the leading experts in their fields. Moreover, it does this by covering practically the whole possible range of topics in the discipline. It enables students and practitioners to study and appreciate the beauty and the power of some of the computational search techniques that are able to effectively navigate through search spaces that are sometimes inconceivably large. I am convinced that this second edition will build on the success of the first edition and that it will prove to be just as popular." Jacek Blazewicz, Institute of Computing Science, Poznan University of Technology and Institute of Bioorganic Chemistry, Polish Academy of Sciences

Combining Genetic Algorithm and Tabu Search Methodology for Improving Winter's Method of Forecasting Aug 19 2022

Comparison of Tabu Search and Genetic Algorithm in Mobile Network Design Jul 18 2022 This thesis will explore two methods of designing a mobile wireless network. The approaches used in designing their wireless networks are tabu search and genetic algorithm. Both of these methods are widely used for global optimization problems. A detailed network optimization framework is developed for designing wireless network. This optimization problem is then solved using genetic algorithm and tabu search. The designs from the two methods are compared with each other to compare which optimization performs better. From the study of the results of this experiment, both of the methods can find a good framework of a mobile wireless network. They both converge at about the same rate. Therefore, they are equal in performance.

Exploration of the Tabu Search Algorithm in the Solving of Vehicle Routing Problems Dec 23 2022

Interrelated Product Design Activities Sequencing with Efficient Tabu Search Algorithms Jan 24 2023 This paper proposes and investigates a metaheuristic tabu search algorithm (TSA) that generates optimal or near optimal solutions sequences for the feedback length minimization problem (FLMP) associated to a design structure matrix (DSM). The FLMP is a non-linear combinatorial optimization problem, belonging to the NP-hard class, and therefore finding an exact optimal solution is very hard and time consuming, especially on medium and large problem instances. First, we introduce the subject and provide a review of the related literature and problem definitions. Using the tabu search method (TSM) paradigm, this paper presents a new tabu search algorithm that generates optimal or sub-optimal solutions for the feedback length minimization problem, using two different neighborhoods based on swaps of two activities and shifting an activity to a different position. Furthermore, this paper includes numerical results for analyzing the performance of the proposed TSA and for fixing the proper values of its parameters. Then we compare our results on benchmarked problems with those already published in the literature. We conclude that the proposed tabu search algorithm is very promising because it outperforms the existing methods, and because no other tabu search method for the FLMP is reported in the literature. The proposed tabu search algorithm applied

to the process layer of the multidimensional design structure matrices proves to be a key optimization method for an optimal product development.

A Tabu Search Algorithm for Mapping Data to Multicomputers Aug 07 2021

A Tabu-search-based Algorithm for Surface Inspection Oct 17 2019

The Comparative Study of Genetic Algorithm and Tabu Search for Solving the University Course Timetabling Problem Sep 27 2020

Some New Results on Tabu Search Algorithm Applied to the Job-Shop Scheduling Problem Feb 19 2020 Some New Results on Tabu Search Algorithm Applied to the Job-Shop Scheduling Problem.

A Tabu Search and a Genetic Algorithm for Solving a Bicriteria General Job Shop Scheduling Problem Oct 09 2021

A Tabu Search Algorithm for Computing an Operational Timetable Dec 31 2020

Tabu Search Algorithm Based on a String Data Model to Solve the GVRP. Apr 15 2022 This thesis introduces a new approximate approach to solve the Generalized Vehicle Routing Problem (GVRP). In this variant of the well-known classical Vehicle Routing Problem (VRP), the customers are grouped into clusters and only one customer is visited from each cluster. It has many real-world logistic applications so it provides a useful modelling framework. Its complexity requests the use of metaheuristics or other approximate solution methods rather than exact models to provide satisfactory results in reasonable computational times. The present approach builds upon a previously developed Simulated Annealing (SA) metaheuristic based on a string model as a solution representation method, that is a one-dimensional data structure which expresses the visiting order of the vehicles routes. Hence, the new algorithm proposes to use the same string model but this time with another metaheuristic, the Tabu Search (TS). Thus, it is intended to determine which metaheuristic can provide better outcomes under the same conditions. Both algorithms are implemented in C++ programming language and computational results are presented for the same set of benchmark instances so that conclusions can be drawn. Accuracy, flexibility, robustness and speed are evaluated to demonstrate the effectiveness of both approaches with their strengths and weaknesses.

A Tabu-search Algorithm for the Location of Data Centers and Software Components in Green Cloud Computing Networks Aug 27 2020

A Tabu Search Algorithm for the Symmetric Generalized Traveling Salesman Problem Apr 03 2021 The generalized travelling salesman problem consists of finding a least-cost Hamiltonian circuit or cycle through several clusters of vertices. This paper proposes a new tabu search algorithm which uses the problem's configuration to guide the search and reduce the solution space. A new way to manage the tabu restrictions, specially adapted to this problem, is also proposed. Computational results are presented for a set of problems taken from the literature to demonstrate the success of the algorithm in obtaining near- optimal solutions.

Tabu Search and Genetic Algorithm for Phylogeny Inference May 24 2020 Phylogenetics is the study of evolutionary relations between different organisms. Phylogenetic trees are the representations of these relations. Researchers have been working on finding fast and systematic approaches to reconstruct phylogenetic trees from observed data for over 40 years. It has been shown that, given a certain criterion to evaluate each tree, finding the best fitted phylogenetic trees among all possible trees is an NP-hard problem. In this study, we focus on the topology searching techniques for the maximum-parsimony and maximum-likelihood phylogeny inference. We proposed two search methods based on tabu search and genetic algorithms. We first explore the feasibility of using tabu search for finding the maximum-parsimony trees. The performance of the proposed algorithm is evaluated based on its efficiency and accuracy. Then we proposed a hybrid method of the tabu search and genetic algorithm. The experimental results indicate that the hybrid method can provide maximum-parsimony trees with a good level of accuracy and efficiency. The hybrid method is also implemented for finding maximum-likelihood trees. The experimental results show that the proposed hybrid method produce better maximum-likelihood trees than

the default-setting dnaml program in average on the tested data sets. On a much larger data set, the hybrid method outperforms the default-setting dnaml program and has equally good performance as the dnaml program with the selected jumble option.

Intelligent Optimisation Techniques Mar 14 2022 This work gives a concise introduction to four important optimization techniques, presenting a range of applications drawn from electrical, manufacturing, mechanical, and systems engineering-such as the design of microstrip antennas, digital FIR filters, and fuzzy logic controllers. The book also contains the C programs used to implement the main techniques for those wishing to experiment with them.

Evolutionary Multi-Criterion Optimization Sep 20 2022 This book constitutes the refereed proceedings of the Third International Conference on Evolutionary Multi-Criterion Optimization, EMO 2005, held in Guanajuato, Mexico, in March 2005. The 59 revised full papers presented together with 2 invited papers and the summary of a tutorial were carefully reviewed and selected from the 115 papers submitted. The papers are organized in topical sections on algorithm improvements, incorporation of preferences, performance analysis and comparison, uncertainty and noise, alternative methods, and applications in a broad variety of fields.

Metaheuristic Optimization via Memory and Evolution Nov 29 2020 Tabu Search (TS) and, more recently, Scatter Search (SS) have proved highly effective in solving a wide range of optimization problems, and have had a variety of applications in industry, science, and government. The goal of Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search, scatter search or both, as well as variations and extensions having "adaptive memory programming" as a primary focus. Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS, or that prove new theoretical results, or describe the successful application of these methods to real world problems.

Genetic Algorithm and Tabu Search Approaches to Quantization for DCT-based Image Compression Feb 25 2023 Discusses current methods used for image compression. Also gives a detailed explanation of the discrete cosine transform (DCT), used by JPEG, and the efforts that have recently been made to optimize related algorithms.

A Tabu Search Based on Maximum Descent Algorithm for VQ Codebook Design Sep 08 2021

Search Algorithms and Applications May 16 2022 Search algorithms aim to find solutions or objects with specified properties and constraints in a large solution search space or among a collection of objects. A solution can be a set of value assignments to variables that will satisfy the constraints or a sub-structure of a given discrete structure. In addition, there are search algorithms, mostly probabilistic, that are designed for the prospective quantum computer. This book demonstrates the wide applicability of search algorithms for the purpose of developing useful and practical solutions to problems that arise in a variety of problem domains. Although it is targeted to a wide group of readers: researchers, graduate students, and practitioners, it does not offer an exhaustive coverage of search algorithms and applications. The chapters are organized into three parts: Population-based and quantum search algorithms, Search algorithms for image and video processing, and Search algorithms for engineering applications.

A Tabu Search Algorithm for the Open Shop Scheduling Problem with Sequence Dependent Setup Times Jun 17 2022

Tabu Search Algorithms for the Maximum Clique Problem Nov 10 2021 Tabu search is a relatively new general heuristic framework successfully applied to a wide variety of hard combinatorial optimization points. In two previous projects, three variants of this approach were developed for the unweighted maximum clique problem, two deterministic ones and a probabilistic one. These algorithms were extensively tested on randomly-generated problems and were found to be very effective in that context. This paper evaluates the performance of these algorithms on the benchmark instances of

the second DIMACS Challenge that, along with the results reported previously, will provide a fairly precise assessment of the merits of the heuristics.

A Tabu Search Algorithm for the Symmetric Generalized Traveling Salesman Problem Dec 19 2019

A Tabu Search Algorithm for Self-healing Ring Network Design Apr 22 2020

Tabu Search and Genetic Algorithm for Phylogeny Inference Mar 02 2021 Keywords: parsimony, phylogeny, genetic algorithm, tabu search, topology search, maximum likelihood.

A Tabu Search Algorithm for the Multiple Mode Resource-constrained Project Scheduling Problem Jul 06 2021

A Tabu Search Algorithm for the Site Dependent Vehicle Routing Problem with Time Windows Jul 26 2020

A Hybrid Tabu Search and Constraint Programming Algorithm for the Dynamic Dial-a-ride Problem Jan 20 2020

A Tabu Search Algorithm for the Steiner Tree Problem Oct 29 2020 The Steiner Tree problem in graphs is an NP-hard problem having applications in many areas including telecommunication, distribution and transportation systems. We survey, briefly, a few exact methods and a few heuristic approaches that have been proposed for solving this problem. Further, we propose a tabu search algorithm whose key feature includes a neighborhood definition consisting of exchange of key paths. The algorithm is empirically tested by running computational experiments on problem sets, with known optimal values, that are available over the internet. The results from the tabu search are compared with the optimal values and with the results of a well-known heuristic procedure. The experimental results show that the tabu search algorithm is reasonably successful. It produces near-optimal solutions in the experiments conducted and performs better than the heuristic procedure. We also explore other avenues for future work and possible extensions to the tabu search algorithm.

A Tabu Search Algorithm for Order Acceptance and Scheduling Problem Mar 22 2020

A Tabu-search-based Algorithm for Unconstrained Optimization Feb 13 2022

Practice and Theory of Automated Timetabling III Dec 11 2021 This volume is the third in an ongoing series of books that deal with the state of the art in timetabling research. It contains a selection of the papers presented at the 3rd International Conference on the Practice and Theory of Automated Timetabling (PATAT 2000) held in Constance, Germany, on August 16{18th, 2000. The conference, once again, brought together researchers, practitioners, and vendors from all over the world working on all aspects of computer-aided timetable generation. The main aim of the PATAT conference series is to serve as an international and inter-disciplinary forum for new timetabling research results and directions. The conference series particularly aims to foster mul- disciplinary timetabling research. Our field has always attracted scientists from a number of traditional domains including computer science and operational - search and we believe that the cross-fertilisation of ideas from different fields and disciplines is a very important factor in the future development of timetabling research. The Constance conference certainly met these aims. As can be seen from the selection of papers in this volume, there was a wide range of interesting approaches and ideas for a variety of timetabling application areas and there were delegates from many different disciplines. It is clear that while considerable progress is being made in many areas of timetabling research, there are a number of important issues that researchers still have to face. In a contribution to the previous PATAT conference, George M.

Meta-Heuristics Feb 01 2021 Meta-Heuristics: Advances and Trends in Local Search Paradigms for Optimizations comprises a carefully refereed selection of extended versions of the best papers presented at the Second Meta-Heuristics Conference (MIC 97). The selected articles describe the most recent developments in theory and applications of meta-heuristics, heuristics for specific problems, and comparative case studies. The book is divided into six parts, grouped mainly by the techniques considered. The extensive first part with twelve papers covers tabu search and its application to a great

variety of well-known combinatorial optimization problems (including the resource-constrained project scheduling problem and vehicle routing problems). In the second part we find one paper where tabu search and simulated annealing are investigated comparatively and two papers which consider hybrid methods combining tabu search with genetic algorithms. The third part has four papers on genetic and evolutionary algorithms. Part four arrives at a new paradigm within meta-heuristics. The fifth part studies the behavior of parallel local search algorithms mainly from a tabu search perspective. The final part examines a great variety of additional meta-heuristics topics, including neural networks and variable neighbourhood search as well as guided local search. Furthermore, the integration of meta-heuristics with the branch-and-bound paradigm is investigated.

Essays and Surveys in Metaheuristics Jan 12 2022 Finding exact solutions to many combinatorial optimization problems in business, engineering, and science still poses a real challenge, despite the impact of recent advances in mathematical programming and computer technology. New fields of applications, such as computational biology, electronic commerce, and supply chain management, bring new challenges and needs for algorithms and optimization techniques. Metaheuristics are master procedures that guide and modify the operations of subordinate heuristics, to produce improved approximate solutions to hard optimization problems with respect to more simple algorithms. They also provide fast and robust tools, producing high-quality solutions in reasonable computation times. The field of metaheuristics has been fast evolving in recent years. Techniques such as simulated annealing, tabu search, genetic algorithms, scatter search, greedy randomized adaptive search, variable neighborhood search, ant systems, and their hybrids are currently among the most efficient and robust optimization strategies to find high-quality solutions to many real-life optimization problems. A very large number of successful applications of metaheuristics are reported in the literature and spread throughout many books, journals, and conference proceedings. A series of international conferences entirely devoted to the theory, applications, and computational developments in metaheuristics has been attracting an increasing number of participants, from universities and the industry.

Bio-Inspired Computational Algorithms and Their Applications Oct 21 2022 Bio-inspired computational algorithms are always hot research topics in artificial intelligence communities. Biology is a bewildering source of inspiration for the design of intelligent artifacts that are capable of efficient and autonomous operation in unknown and changing environments. It is difficult to resist the fascination of creating artifacts that display elements of lifelike intelligence, thus needing techniques for control, optimization, prediction, security, design, and so on. *Bio-Inspired Computational Algorithms and Their Applications* is a compendium that addresses this need. It integrates contrasting techniques of genetic algorithms, artificial immune systems, particle swarm optimization, and hybrid models to solve many real-world problems. The works presented in this book give insights into the creation of innovative improvements over algorithm performance, potential applications on various practical tasks, and combination of different techniques. The book provides a reference to researchers, practitioners, and students in both artificial intelligence and engineering communities, forming a foundation for the development of the field.

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