



Alexander Andy

Savings Heuristic for the Inventory Routing Problem

An optimization algorithm

Savings Heuristic For The Inventory Routing Problem An Optimization Algorithm

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Çağrı Tolga**

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Handbooks in Operations Research and Management Science: Transportation Cynthia Barnhart, Gilbert Laporte, 2006-12-08 This book contains eleven chapters describing some of the most recent methodological operations research developments in transportation It is structured around the main transportation modes and each chapter is written by a group of well recognized researchers Because of the major impact of operations research methods in the field of air transportation over the past forty years it is befitting to open the book with a chapter on airline operations management This book will prove useful to researchers students and practitioners in transportation and will stimulate further research in this rich and fascinating area Volume 14 examines transport and its relationship with operations and management science 11 chapters cover the most recent research developments in transportation Focuses on main transportation modes air travel automobile public transit maritime transport and more *Network Optimization* Julia Pahl, Torsten Reiners, Stefan Voß, 2011-06-03 This book constitutes the refereed proceedings of the 5th International Conference on Network Optimization INOC 2011 held in Hamburg Germany in June 2011 The 65 revised full papers presented were carefully reviewed and selected from numerous submissions The papers highlight recent developments in network optimization and are organized in the following topical sections theoretical problems uncertainty graph theory and network design network flows routing and transportation and further optimization problems and applications energy oriented network design telecom applications location maritime shipping and graph theory Optimization and Management in Manufacturing Engineering Xinbao Liu, Jun Pei, Lin Liu, Hao Cheng, Mi Zhou, Panos M. Pardalos, 2017-10-02 Problems facing manufacturing clusters that intersect information technology process management and optimization within the Internet of Things IoT are examined in this book Recent advances in information technology have transformed the use of resources and data exchange often leading to management and optimization problems attributable to technology limitations and strong market competition This book discusses several problems and concepts which makes significant connections in the areas of information sharing organization management resource operations and performance assessment Geared toward practitioners and researchers this treatment deepens the understanding between resource collaborative management and advanced information technology Those in manufacturing will utilize the numerous mathematical models and methods offered to solve practical problems related to cutting stock supply chain scheduling and inventory management Academics and students with a basic knowledge of manufacturing combinatorics and linear programming will find that this discussion widens the research area of resource collaborative management and unites the fields of information technology manufacturing management and optimization *Applied Simulation and Optimization 2* Miguel Mujica Mota, Idalia Flores De La Mota, 2017-05-18 Building on the author's earlier *Applied Simulation and Optimization* this book presents novel methods for solving problems in industry based on hybrid simulation optimization approaches that combine the advantages of both paradigms The book serves as a

comprehensive guide to tackling scheduling routing problems resource allocations and other issues in industrial environments the service industry production processes or supply chains and aviation Logistics manufacturing and operational problems can either be modelled using optimization techniques or approaches based on simulation methodologies Optimization techniques have the advantage of performing efficiently when the problems are properly defined but they are often developed through rigid representations that do not include or accurately represent the stochasticity inherent in real systems Furthermore important information is lost during the abstraction process to fit each problem into the optimization technique On the other hand simulation approaches possess high description levels but the optimization is generally performed through sampling of all the possible configurations of the system The methods explored in this book are of use to researchers and practising engineers in fields ranging from supply chains to the aviation industry

Metaheuristics Patrick Siarry, 2016-12-24 Metaheuristics exhibit desirable properties like simplicity easy parallelizability and ready applicability to different types of optimization problems After a comprehensive introduction to the field the contributed chapters in this book include explanations of the main metaheuristics techniques including simulated annealing tabu search evolutionary algorithms artificial ants and particle swarms followed by chapters that demonstrate their applications to problems such as multiobjective optimization logistics vehicle routing and air traffic management The authors are leading researchers in this domain with considerable teaching and applications experience and the book will be of value to industrial practitioners graduate students and research academics

Integer Programming and Related Areas Rabe v. Randow, 2012-12-06 The fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing A classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the Institut für Ökonometrie und Operations Research of the University of Bonn The pioneering first volume was compiled by Claus Kastning during the years 1970 1975 and appeared in 1976 as Volume 128 of the series Lecture Notes in Economics and Mathematical Systems published by the Springer Verlag Work on the project was continued by Dirk Hausmann Reinhardt Euler and Rabe von Randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 Volumes 160 197 and 243 of the above series The present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 It contains 5864 new publications by 4480 authors and was compiled by Rabe von Randow Its form is practically identical to that of the first four volumes some additions having been made to the subject list

Lean and Green Supply Chain Management Turan Paksoy, Gerhard-Wilhelm Weber, Sandra Huber, 2018-11-11 This book presents the latest developments in optimization and optimal control models exact approximate and hybrid methods and their applications in lean and green supply chains It examines supply chain network design and modeling closed loop supply chains and lean green resilient and agile or responsive networks and also discusses corporate social

responsibility and occupational health and safety It particularly focuses on supply chain management under uncertainty employing stochastic or nonlinear modeling simulation based studies and optimization multi criteria decision making and applications of fuzzy set theory and covers various aspects of supply chain management such as risk management supplier selection or the design of automated warehouses Lastly using experimental applications and practical case studies it shows the impact of lean and green applications on vehicle fleet management and operations management

Fundamentals of Supply Chain Theory Lawrence V. Snyder, Zuo-Jun Max Shen, 2019-07-11 Comprehensively teaches the fundamentals of supply chain theory This book presents the methodology and foundations of supply chain management and also demonstrates how recent developments build upon classic models The authors focus on strategic tactical and operational aspects of supply chain management and cover a broad range of topics from forecasting inventory management and facility location to transportation process flexibility and auctions Key mathematical models for optimizing the design operation and evaluation of supply chains are presented as well as models currently emerging from the research frontier Fundamentals of Supply Chain Theory Second Edition contains new chapters on transportation traveling salesman and vehicle routing problems integrated supply chain models and applications of supply chain theory New sections have also been added throughout on topics including machine learning models for forecasting conic optimization for facility location a multi supplier model for supply uncertainty and a game theoretic analysis of auctions The second edition also contains case studies for each chapter that illustrate the real world implementation of the models presented This edition also contains nearly 200 new homework problems over 60 new worked examples and over 140 new illustrative figures Plentiful teaching supplements are available including an Instructor s Manual and PowerPoint slides as well as MATLAB programming assignments that require students to code algorithms in an effort to provide a deeper understanding of the material Ideal as a textbook for upper undergraduate and graduate level courses in supply chain management in engineering and business schools Fundamentals of Supply Chain Theory Second Edition will also appeal to anyone interested in quantitative approaches for studying supply chains

[Green Transportation and New Advances in Vehicle Routing Problems](#) Houda Derbel, Bassem Jarboui, Patrick Siarry, 2020-12-08 This book presents recent work that analyzes general issues of green transportation The contributed chapters consider environmental objectives in transportation including topics such as battery swap stations for electric vehicles efficient home healthcare routing waste collection and various vehicle routing problems The content will be valuable for researchers and postgraduate students in computer science operations research and urban planning

Logistics Engineering Handbook G. Don Taylor, 2007-12-14 Achieving state of the art excellence and attaining the cost reductions associated with outstanding logistics efforts is an obvious gain in terms of competitive edge and profitability As logistics tools evolve in comprehensiveness and complexity and the use of these new tools becomes more pervasive maintaining a position of leadership in logisti

New Perspectives on Enterprise Decision-Making Applying Artificial Intelligence Techniques Julian

Andres Zapata-Cortes, Giner Alor-Hernández, Cuauhtémoc Sánchez-Ramírez, Jorge Luis García-Alcaraz, 2021-06-07 This book presents different techniques and methodologies that used to help improve the decision making process and increase the likelihood of success in sector as follows agriculture financial services logistics energy services health and others This book collects and consolidates innovative and high quality research contributions regarding the implementation techniques and methodologies applied in different industrial sectors The scope is to disseminate current trends knowledge in the implementation of artificial intelligence techniques and methodologies in different fields as follows supply chain business intelligence e commerce social media and others The book contents are useful for Ph D Ph D students master and undergraduate students and professional and students in industrial engineering computer science information systems data analytics and others

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

Intelligent Methods and Alternative Economic Models for Sustainability Dekhici, Latifa, Guerraiche, Khaled, Azzemou, Rabia, Jlassi, Jihène, 2024-04-22 In the face of a world overwhelmed by environmental challenges the need for sustainability has reached a critical juncture This multidimensional concept demands a delicate equilibrium between environmental preservation economic viability and social equity Navigating this intricate terrain necessitates innovative solutions that bridge the present and the future The urgency is palpable as we grapple with the repercussions of unsustainable practices Intelligent Methods and Alternative Economic Models for Sustainability emerges as the definitive solution to this urgent problem By synergizing intelligent methods and alternative economic models the book provides a cohesive framework to address the multifaceted challenges of sustainability It delves into the transformative power of metaheuristics big data and the Internet of Things IoT in optimizing complex systems while advocating for circular economic models that minimize waste and maximize resource efficiency The book transcends theoretical discourse offering real world insights into successful sustainability initiatives This comprehensive approach caters not only to researchers in computer sciences economics and sustainability but also empowers policymakers with actionable strategies and engages the broader public fostering awareness and understanding of sustainability issues that impact us all

Intelligent and Fuzzy Systems Cengiz Kahraman, Irem Ucal Sari, Basar Oztaysi, Selcuk Cebi, Sezi Cevik Onar, A. Çağrı Tolga, 2023-08-16 This book consists of the papers accepted after a careful review process at an international scientific meeting where the latest developments on intelligent and fuzzy systems are presented and discussed The latest developments in both the theoretical and practical fields

of the new fuzzy set extensions have been prepared by expert researchers Contributed by participants from more than 40 different countries this book is also a useful resource in terms of showing the levels that fuzzy and intelligent systems have reached in various countries of the world The intended readers are intelligent and fuzzy systems researchers lecturers M Sc and Ph D students studying fuzzy sets and artificial intelligence The book covers fuzzy logic theory and applications heuristics and metaheuristics from optimization to machine learning from quality management to risk management making the book an excellent source for researchers

Sustainable Logistics and Transportation Didem Cinar,Konstantinos Gakis,Panos M. Pardalos,2018-01-02 Focused on the logistics and transportation operations within a supply chain this book brings together the latest models algorithms and optimization possibilities Logistics and transportation problems are examined within a sustainability perspective to offer a comprehensive assessment of environmental social ethical and economic performance measures Featured models techniques and algorithms may be used to construct policies on alternative transportation modes and technologies green logistics and incentives by the incorporation of environmental economic and social measures Researchers professionals and graduate students in urban regional planning logistics transport systems optimization supply chain management business administration information science mathematics and industrial and systems engineering will find the real life and interdisciplinary issues presented in this book informative and useful

Sustainable Transportation and Smart Logistics Javier Faulin,Scott Grasman,Angel Juan,Patrick Hirsch,2018-11-13 Sustainable Transportation and Smart Logistics Decision Making Models and Solutions provides deterministic and probabilistic models for transportation logistics problem solving and decision making The book presents an overview of the intersections between sustainability transportation and logistics and delves into the current problems associated with the implementation of sustainable transportation and smart logistics in urban settings It also offers models for addressing complex structural problems and procedures for estimating transportation externalities such as environmental and social impacts both in industrial and government arenas as well as decision making models from operational tactical and strategic management perspectives Sustainable Transportation and Smart Logistics also covers best practices for practical corporate policy implementation making it a comprehensive and vital resource for researchers graduate students practitioners and policy makers in transportation logistics urban planning economics engineering and environmental science Examines various modes of transportation Includes mathematical models for decision making in a wide variety of situations Presents public transportation and smart cities use cases

New Trends in Emerging Complex Real Life Problems Patrizia Daniele,Laura Scrimali,2018-12-30 This book gathers the contributions of the international conference Optimization and Decision Science ODS2018 which was held at the Hotel Villa Diodoro Taormina Messina Italy on September 10 to 13 2018 and was organized by AIRO the Italian Operations Research Society in cooperation with the DMI Department of Mathematics and Computer Science of the University of Catania Italy The book offers state of the art content on optimization

decisions science and problem solving methods as well as their application in industrial and territorial systems It highlights a range of real world problems that are both challenging and worthwhile using models and methods based on continuous and discrete optimization network optimization simulation and system dynamics heuristics metaheuristics artificial intelligence analytics and multiple criteria decision making Given its scope of coverage it will benefit not only researchers and practitioners working in these areas but also the operations research community as a whole

Quantitative Models for Supply Chain Management Sridhar Tayur,Ram Ganeshan,Michael Magazine,2012-12-06 Quantitative models and computer based tools are essential for making decisions in today s business environment These tools are of particular importance in the rapidly growing area of supply chain management This volume is a unified effort to provide a systematic summary of the large variety of new issues being considered the new set of models being developed the new techniques for analysis and the computational methods that have become available recently The volume s objective is to provide a self contained sophisticated research summary a snapshot at this point of time in the area of Quantitative Models for Supply Chain Management While there are some multi disciplinary aspects of supply chain management not covered here the Editors and their contributors have captured many important developments in this rapidly expanding field The 26 chapters can be divided into six categories Basic Concepts and Technical Material Chapters 1 6 The chapters in this category focus on introducing basic concepts providing mathematical background and validating algorithmic tools to solve operational problems in supply chains Supply Contracts Chapters 7 10 In this category the primary focus is on design and evaluation of supply contracts between independent agents in the supply chain Value of Information Chapters 11 13 The chapters in this category explicitly model the effect of information on decision making and on supply chain performance Managing Product Variety Chapters 16 19 The chapters in this category analyze the effects of product variety and the different strategies to manage it International Operations Chapters 20 22 The three chapters in this category provide an overview of research in the emerging area of International Operations Conceptual Issues and New Challenges Chapters 23 27 These chapters outline a variety of frameworks that can be explored and used in future research efforts This volume can serve as a graduate text as a reference for researchers and as a guide for further development of this field

Modeling, Computation And Optimization S K Neogy,A K Das,Ravindra B Bapat,2009-04-03 This volume provides recent developments and a state of the art review in various areas of mathematical modeling computation and optimization It contains theory computation as well as the applications of several mathematical models to problems in statistics games optimization and economics for decision making It focuses on exciting areas like models for wireless networks models of Nash networks dynamic models of advertising application of reliability models in economics support vector machines optimization complementarity modeling and games

Energy Saving at Cities Francisco Manzano Agugliaro,Alberto Jesús Perea Moreno,2021-01-20 Climate change is increasing due to the anthropogenic emission of greenhouse gases The majority of these are due to the production and

consumption of energy According to the latest estimates global energy demand could triple by 2050 and by then 70% of the world's population will live in cities The challenge for future cities is the implementation of a mechanism that minimizes the need for injection of new energy resources in them so that a high level of self sufficiency can be achieved through the concept of circular economy thus partially mitigating the impacts of climate change Using solar energy today is considered to be one of the best solutions that can be installed in buildings to help with this issue This book addresses several relevant aspects related to energy saving at cities including a deep survey of research topics and scientific collaborations in energy saving The main research topics carried out are related to sustainability solar energy the use of rooftops for energy generation energy conversion from urban biomass or residues wind energy and public and private urban energy saving

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