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Editors



Dynamic Fleet Management

Concepts, Systems, Algorithms
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**Vasileios S. Zeimpekis, Christos D.
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Dynamic Fleet Management Vasileios S. Zeimpekis,Christos D. Tarantilis,George M. Giaglis,Ioannis E. Minis,2007-10-05 Dynamic Fleet Management will focus on real time management of a distribution system This means that when a dynamic event occurs within the distribution chain action must be taken in real time The book will integrate the latest results in system design algorithm development and system implementation to capture the state of the art research and application trends While much of the research in this area of transportation problems have almost exclusively concentrated on carrying out static plans on optional distribution conditions this book will examine those problems when some dynamic or unplanned even occurs within the transport or network system It will focus specifically on these cases and integrate the latest results in systems routing algorithms and case studies where information a dynamic event is revealed to the decision maker in a real time manner **Metaheuristics** Karl F. Doerner,Michel Gendreau,Peter Greistorfer,Walter Gutjahr,Richard F. Hartl,Marc Reimann,2007-08-13 The aim of Metaheuristics Progress in Complex Systems Optimization is to provide several different kinds of information a delineation of general metaheuristics methods a number of state of the art articles from a variety of well known classical application areas as well as an outlook to modern computational methods in promising new areas Therefore this book may equally serve as a textbook in graduate courses for students as a reference book for people interested in engineering or social sciences and as a collection of new and promising avenues for researchers working in this field Highlighted are recent developments in the areas of Simulated Annealing Path Relinking Scatter Search Tabu Search Variable Neighborhood Search Hyper heuristics Constraint Programming Iterated Local Search GRASP bio inspired algorithms like Genetic Algorithms Memetic Algorithms Ant Colony Optimization or Swarm Intelligence and several other paradigms **Vehicle Routing** Paolo Toth,Daniele Vigo,2014-12-05 Vehicle routing problems among the most studied in combinatorial optimization arise in many practical contexts freight distribution and collection transportation garbage collection newspaper delivery etc Operations researchers have made significant developments in the algorithms for their solution and Vehicle Routing Problems Methods and Applications Second Edition reflects these advances The text of the new edition is either completely new or significantly revised and provides extensive and complete state of the art coverage of vehicle routing by those who have done most of the innovative research in the area it emphasizes methodology related to specific classes of vehicle routing problems and since vehicle routing is used as a benchmark for all new solution techniques contains a complete overview of current solutions to combinatorial optimization problems It also includes several chapters on important and emerging applications such as disaster relief and green vehicle routing **Operations Research and Cyber-Infrastructure** John W. Chinneck,Bjarni Kristjansson,Matthew J. Saltzman,2009-01-05 Operations Research and Cyber Infrastructure is the companion volume to the Eleventh INFORMS Computing Society Conference ICS 2009 held in

Charleston South Carolina from January 11 to 13 2009 It includes 24 high quality refereed research papers As always the focus of interest for ICS is the interface between Operations Research and Computer Science and the papers in this volume reflect that interest This is naturally an evolving area as computational power increases rapidly while decreasing in cost even more quickly and the papers included here illustrate the wide range of topics at this interface

Pro-active Dynamic Vehicle Routing Francesco Ferrucci,2013-03-14 This book deals with transportation processes denoted as the Real time Distribution of Perishable Goods RDOPG The book presents three contributions that are made to the field of transportation First a model considering the minimization of customer inconvenience is formulated Second a pro active real time control approach is proposed Stochastic knowledge is generated from past request information by a new forecasting approach and is used in the pro active approach to guide vehicles to request likely areas before real requests arrive there Various computational results are presented to show that in many cases the pro active approach is able to achieve significantly improved results Moreover a measure for determining the structural quality of request data sets is also proposed The third contribution of this book is a method that is presented for considering driver inconvenience aspects which arise from vehicle en route diversion activities Specifically this method makes it possible to restrict the number of performed vehicle en route diversion activities

Cellular Genetic Algorithms Enrique Alba,Bernabe Dorronsoro,2009-04-05 Cellular Genetic Algorithms defines a new class of optimization algorithms based on the concepts of structured populations and Genetic Algorithms GAs The authors explain and demonstrate the validity of these cellular genetic algorithms throughout the book with equal and parallel emphasis on both theory and practice This book is a key source for studying and designing cellular GAs as well as a self contained primary reference book for these algorithms

Reactive Search and Intelligent Optimization Roberto Battiti,Mauro Brunato,Franco Mascia,2008-12-16 Reactive Search and Intelligent Optimization is an excellent introduction to the main principles of reactive search as well as an attempt to develop some fresh intuition for the approaches The book looks at different optimization possibilities with an emphasis on opportunities for learning and self tuning strategies While focusing more on methods than on problems problems are introduced wherever they help make the discussion more concrete or when a specific problem has been widely studied by reactive search and intelligent optimization heuristics Individual chapters cover reacting on the neighborhood reacting on the annealing schedule reactive prohibitions model based search reacting on the objective function relationships between reactive search and reinforcement learning and much more Each chapter is structured to show basic issues and algorithms the parameters critical for the success of the different methods discussed and opportunities for the automated tuning of these parameters

Fleet Telematics Asvin Goel,2007-10-23 In the past 30 years commercial transport traffic has more than doubled in both Europe and North America while Asian traffic has likely increased even more As any mismatch between supply and demand can result into significant disturbances of manufacturing processes just in time practices necessitate punctual reliable and flexible transportation Fleet

Telematics Real Time Management and Planning of Commercial Vehicle Operations combines wireless telematics systems with dynamic vehicle routing algorithms and vehicle positioning systems to produce a telematics enabled information system that can be employed by commercial fleet operators for real time monitoring control and planning The book presents a Messaging Fleet Monitoring System that automatically identifies deviations between the planned and the current state of the transportation system and a Dynamic Planning System DPS that provides real time decision support considering the current state of the transportation system

Approximate Dynamic Programming for Dynamic Vehicle Routing Marlin Wolf Ulmer, 2017-04-27 This book provides a straightforward overview for every researcher interested in stochastic dynamic vehicle routing problems SDVRPs The book is written for both the applied researcher looking for suitable solution approaches for particular problems as well as for the theoretical researcher looking for effective and efficient methods of stochastic dynamic optimization and approximate dynamic programming ADP To this end the book contains two parts In the first part the general methodology required for modeling and approaching SDVRPs is presented It presents adapted and new general anticipatory methods of ADP tailored to the needs of dynamic vehicle routing Since stochastic dynamic optimization is often complex and may not always be intuitive on first glance the author accompanies the ADP methodology with illustrative examples from the field of SDVRPs The second part of this book then depicts the application of the theory to a specific SDVRP The process starts from the real world application The author describes a SDVRP with stochastic customer requests often addressed in the literature and then shows in detail how this problem can be modeled as a Markov decision process and presents several anticipatory solution approaches based on ADP In an extensive computational study he shows the advantages of the presented approaches compared to conventional heuristics To allow deep insights in the functionality of ADP he presents a comprehensive analysis of the ADP approaches

Evaluation of Dynamic Fleet Management Systems Amelia C. Regan, Hani S. Mahmassani, Patrick Jaillet, 1998

Liner Ship Fleet Planning Tingsong Wang, Shuaian Wang, Qiang Meng, 2017-05-18 Liner Ship Fleet Planning Models and Algorithms systematically introduces the latest research on modeling and optimization for liner ship fleet planning with demand uncertainty Container shipping companies have struggled since the financial crisis of 2007 2008 making it critical for them to make informed decisions about their fleet planning and development Current and future shipping professionals require systematic approaches for investigating and solving their fleet planning problems as well as methodologies for addressing their other shipping responsibilities Liner Ship Fleet Planning addresses these needs providing the most recent quantitative research of liner shipping in maritime transportation The research and methods provided assist those tasked with optimizing shipping efficiency and fleet deployment in the face of uncertain demand Suitable for those with any level of quantitative background the book serves as a valuable resource for both maritime academics and shipping professionals involved in planning and scheduling departments Introduces the latest research on maritime transportation problems Analyzes problems of liner ship fleet planning taking uncertainty into account

Promotes the use of mathematics to manage uncertainty using stochastic programming models and proposing solution algorithms to solve proposed models Includes case studies that provide detailed examples of real world examples of fleet optimization Explains how stochastic programming modeling methods and solution algorithms can be applied to other research fields featuring uncertainty such as container yard planning berth allocation and vehicle deployment problems

Optimization Models for Rail Car Fleet Management Milos Milenkovic, Nebojsa Bojovic, 2019-09-07 Optimization Models for Rail Car Fleet Management represents the result of multi year efforts to provide readers with insights into one of the most important areas of railway transport management The book covers mathematical procedures for the effective and efficient utilization of railway freight cars developed models for optimization methods heterogeneity and partial substitutability of freight cars research and development in rail freight car fleet management models and the stochastic and dynamic nature of the supply demand and traveling time of freight cars among other topics

Analysis and implementation of a system for the dynamic fleet management, 2002 Esta disserta o tem como objetivo contribuir para o gerenciamento de frotas de grande porte buscando uma maior rapidez e efici ncia na distribui o de ve culos ao longo do tempo espa o visando maximizar o lucro total da empresa Problemas de gerenciamento de frotas din micas s o normalmente formulados como uma rede din mica mas h uma grande dificuldade ao se trabalhar com problemas desse tipo especialmente quando se busca uma solu o sobre um horizonte de planejamento longo Visando contornar essa dificuldade Powell Carvalho 1998 desenvolveram uma nova abordagem para problemas desse tipo a Logistics Queuing Network LQN A utiliza o do algoritmo LQN na pr tica atrav s de um software permitiria uma tomada de decis o mais r pida e eficiente sendo bastante til em especial para empresas de transportes Assim implementou se o algoritmo LQN atrav s do desenvolvimento de um software para o gerenciamento de frotas de grande porte por meio do qual pode se constatar o potencial de aplica o desse algoritmo

Validation and Testing of a Stochastic, Dynamic Fleet Management System Mary Ellen Noyes, 1993

Optimizing Liner Shipping Fleet Repositioning Plans Kevin Tierney, 2016-10-15 This monograph addresses several critical problems to the operations of shipping lines and ports and provides algorithms and mathematical models for use by shipping lines and port authorities for decision support One of these problems is the repositioning of container ships in a liner shipping network in order to adjust the network to seasonal shifts in demand or changes in the world economy We provide the first problem description and mathematical model of repositioning and define the liner shipping fleet repositioning problem LSFRP The LSFRP is characterized by chains of interacting activities with a multi commodity flow over paths defined by the activities chosen We first model the problem without cargo flows with a variety of well known optimization techniques as well as using a novel method called linear temporal optimization planning that combines linear programming with partial order planning in a branch and bound framework We then model the LSFRP with cargo flows using several different mathematical models as well as two heuristic approaches We evaluate our techniques on a real world

dataset that includes a scenario from our industrial collaborator We show that our approaches scale to the size of problems faced by industry and are also able to improve the profit on the reference scenario by over US 14 million *Hybrid Approaches to Solve Dynamic Fleet Management Problems* Yöng-jin Kim,2003 **Commercial Vehicle Fleet Management and Information Systems** United States. Federal Highway Administration,Cambridge Systematics,ATA Foundation,Private Fleet Management Institute,1994

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