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PUBLICATIONS

Operational Freight Carrier Planning

Basic Concepts,
Optimization Models
and Advanced
Memetic Algorithms



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Operational Freight Carrier Planning Basic Concepts Optimization Models And Advanced Memetic Algorithms

Marta Anna Krajewska



Operational Freight Carrier Planning Basic Concepts Optimization Models And Advanced Memetic Algorithms:

Operational Freight Carrier Planning Jörn Schönberger, 2006-03-30 This book represents the compilation of several research approaches on operational freight carrier planning carried out at the Chair of Logistics University of Bremen It took nearly three years from the first ideas to the final version now in your hands During this time several persons helped me all the time to keep on going and to re start when I got stuck in a dead end or when I could not see the wood for the trees I am deeply indebted to them for their encouragement and comments Prof Dr Herbert Kopfer holder of the Chair of Logistics introduced me into the field of operational transport planning He motivated and supervised me Furthermore he supported me constantly and allowed me to be as free as possible in my research and encouraged me to be as creative as necessary In addition I have to thank Prof Dr Hans Dietrich Haasis Prof Dr Martin G Mohrle and Prof Dr Thorsten Poddig On behalf of all my colleagues who supported me in numerous ways I have to say thank you to Prof Dr Dirk C Mattfeld Prof Dr Christian Bierwirth Henner Gratz Prof Dr Elmar Erkens Nadja Shigo and Katrin Dorow They all helped me even with my most obscure and dubious problems My family supported me all the time They always showed me their trust and encouraged me continuously Special thanks are dedicated to my parents Monika and Heinz Jiirgen

Self-Organizing Migrating Algorithm Donald Davendra, Ivan Zelinka, 2016-02-04 This book brings together the current state of the art research in Self Organizing Migrating Algorithm SOMA as a novel population based evolutionary algorithm modeled on the predator prey relationship by its leading practitioners As the first ever book on SOMA this book is geared towards graduate students academics and researchers who are looking for a good optimization algorithm for their applications This book presents the methodology of SOMA covering both the real and discrete domains and its various implementations in different research areas The easy to follow and implement methodology used in the book will make it easier for a reader to implement modify and utilize SOMA

Advanced Methods for Complex Network Analysis Meghanathan, Natarajan, 2016-04-07 As network science and technology continues to gain popularity it becomes imperative to develop procedures to examine emergent network domains as well as classical networks to help ensure their overall optimization Advanced Methods for Complex Network Analysis features the latest research on the algorithms and analysis measures being employed in the field of network science Highlighting the application of graph models advanced computation and analytical procedures this publication is a pivotal resource for students faculty industry practitioners and business professionals interested in theoretical concepts and current developments in network domains

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-07-26 As technology continues to become more sophisticated mimicking natural processes and phenomena also becomes more of a reality Continued research in the field of natural computing enables an understanding of the world around us in addition to opportunities for man made computing to mirror the natural processes and systems that have existed for centuries Nature Inspired Computing Concepts Methodologies Tools

and Applications takes an interdisciplinary approach to the topic of natural computing including emerging technologies being developed for the purpose of simulating natural phenomena applications across industries and the future outlook of biologically and nature inspired technologies Emphasizing critical research in a comprehensive multi volume set this publication is designed for use by IT professionals researchers and graduate students studying intelligent computing

Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism, and Travel Industry

Vasant, Pandian,M., Kalaivanthan,2016-10-31 The application of holistic optimization methods in the tourism travel and hospitality industry has improved customer service and business strategies within the field By utilizing new technologies and optimization techniques it is becoming easier to troubleshoot problematic areas within the travel industry The Handbook of Research on Holistic Optimization Techniques in the Hospitality Tourism and Travel Industry features innovative technologies being utilized in the management of hotels and tourist attractions Highlighting empirical research on the optimization of the travel and hospitality industry through the use of algorithms and information technology this book is a critical reference source for managers decision makers executives tourists agents researchers economists and hotel staff members Operations Research Proceedings 2004 Hein Fleuren,Dick den Hertog,Peter Kort,2005-05-20 These

proceedings provide information on the most recent advances in operations research and related areas in economics mathematics and computer science contributed by academics and practitioners from around the world New Perspectives on Applied Industrial Tools and Techniques Jorge Luis García-Alcaraz,Giner Alor-Hernández,Aidé Aracely

Maldonado-Macías,Cuauhtémoc Sánchez-Ramírez,2017-06-15 This book disseminates the current trends among innovative and high quality research regarding the implementation of conceptual frameworks strategies techniques methodologies informatics platforms and models for developing advanced industrial tools and techniques and their application in different fields It presents a collection of theoretical real world and original research works in the field of applied industrial tools and techniques The text goes beyond the state of the art in the field of industrial and software engineering listing successful applications and use cases of studies of new approaches applications methods techniques for developing advanced industrial tools methodologies and techniques and their application in different fields The topics covered in this book are of interest to academics researchers students stakeholders and consultants **Evolutionary Algorithms and Chaotic Systems** Ivan

Zelinka,Sergej Celikovsky,Hendrik Richter,Guanrong Chen,2010-02-23 This book discusses the mutual intersection of two fields of research evolutionary computation which can handle tasks such as control of various chaotic systems and deterministic chaos which is investigated as a behavioral part of evolutionary algorithms Dynamics in Logistics Hans-Jörg Kreowski,Bernd Scholz-Reiter,Klaus-Dieter Thoben,2011-01-20 The volume comprises the proceedings of the second International Conference on Dynamics in Logistics LDIC 2009 The scope of the conference was concerned with the identification analysis and description of the dynamics of logistic processes and networks The spectrum reached from the

planning and modelling of processes over innovative methods like autonomous control and knowledge management to the new technologies provided by radio frequency identification mobile communication and networking The growing dynamics confronts the area of logistics with completely new challenges It must become possible to rapidly and flexibly adapt logistic processes and networks to continuously changing conditions LDIC 2009 provided a forum for the discussion of advances in that matter The volume consists of one invited paper and of 47 contributed papers divided into various subjects including mathematical modelling in transport and production logistics routing in dynamic logistic networks sustainable collaboration and supply chain control policies information communication autonomy adaption and cognition in logistics radio frequency identification in logistics and manufacturing networks applications in production logistics and logistic solutions for ports container terminals regions and services

Context-Based Routing in Dynamic Networks Bernd-Ludwig

Wenning,2010-11-01 Bernd Ludwig Wenning presents a context based routing framework which can be applied to routing in different application domains The routing framework includes the signaling as well as a decision system that is applied for route selection

Autonomous Cooperation and Control in Logistics Michael Hülsmann,Bernd Scholz-Reiter,Katja Windt,2011-05-27 Many new technologies like RFID GPS and sensor networks that dominate innovative developments in logistics are based on the idea of autonomous cooperation and control This self organisational concept describes processes of decentralized decision making in heterarchical structures It presumes interacting elements in non deterministic systems which possess the capability and possibility to render decisions The objective of autonomous cooperation and control is the achievement of increased robustness and positive emergence of the total system due to distributed and flexible coping with dynamics and complexity H lsmann Windt 2007 In order to underlie these technology driven developments with a fundamental theoretical foundation this edited volume asks for contributions and limitations of applying the principles of autonomous cooperation and control to logistics processes and systems It intends to identify describe and explain in the context of production and distribution logistics the effects on performance and robustness the enablers and impediments for the feasibility the essential cause effect relations etc of concepts methods technologies and routines of autonomous cooperation and control in logistics Therefore the analyses collected in this edited volume aim to develop a framework for finding the optimal degree as well as the upper and lower boundaries of autonomous cooperation and control of logistics processes from the different perspectives of production technology electronics and communication engineering informatics and mathematics as well as management sciences and economics

Advances in Artificial Intelligence and Soft Computing Grigori Sidorov,Sofía N. Galicia-Haro,2015-11-19 The two volume set LNAI 9413 LNAI 9414 constitutes the proceedings of the 14th Mexican International Conference on Artificial Intelligence MICA 2015 held in Cuernavaca Morelos Mexico in October 2015 The total of 98 papers presented in these proceedings was carefully reviewed and selected from 297 submissions They were organized in topical sections named natural language processing logic and multi agent systems

bioinspired algorithms neural networks evolutionary algorithms fuzzy logic machine learning and data mining natural language processing applications educational applications biomedical applications image processing and computer vision search and optimization forecasting and intelligent applications **Operations Research Proceedings** ,2004

Logistikmanagement ,2011 **Mehrkriterielle Zuschlagserteilung in kombinatorischen**

Transportausschreibungen Tobias Buer,2012-08-30 Der Erfolg vieler Handels und Industrieunternehmen hängt in hohem Maße von ihren Logistik und Gütertransportprozessen ab Sebastian Buer untersucht das Problem der Zuschlagsentscheidung eines Verladers bei der Durchführung einer kombinatorischen Transportausscheidung und zeigt Lösungswege auf

Netzwerk-Design für LKW-Komplettladungsverkehre unter Berücksichtigung ökonomischer und sozialer

Aspekte Sebastian Jäger,2016-11-17 Der Autor zeigt anhand eines mathematischen Modells und eines heuristischen Lösungsverfahrens dass es im Komplettladungsverkehr durch den Aufbau bereits weniger zusätzlicher Unternehmensstandorte für einen Ladungstausch gelingen kann die Anzahl auswärtiger Übernachtungen des Fahrpersonals zu reduzieren Dadurch kann die Attraktivität des Berufsbildes des Kraftfahrers erhöht und somit einer der aktuell größten Herausforderungen für die deutsche Transport und Logistikbranche begegnet werden **Deutsche Nationalbibliografie** ,2005 **Potentials for**

Efficiency Increase in Modern Freight Forwarding Marta Anna Krajewska,2008-07-11 On the basis of an analysis conducted in a freight forwarding company Marta Anna Krajewska identifies two levels of improving logistics performance First she demonstrates that on the local level the automated operational transportation planning increases the planning quality and influences mid and long term planning issues Secondly the results show that on the global level the proposed horizontal collaboration concept among the independent planning units can bring substantial gains *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 *Freight Transport and Distribution* Tolga

Bektas,2017-06-19 This book serves as a primer on freight transportation and logistics providing a general and broad coverage of concepts mathematical models and methodologies available for freight transportation planning at strategic tactical and operational levels It is aimed at graduate students and is also a reference book for practitioners in the field The book includes preliminaries such as mathematical modeling and optimisation algorithms The book also features case studies and practical real life examples to illustrate applications of the concepts and models covered and to encourage a hands on and a practical approach The author has taught and published extensively in the field and draw on state of the art scientific

research He has also been part of a number of practical research projects which underpin the real life examples in the book

Reviewing **Operational Freight Carrier Planning Basic Concepts Optimization Models And Advanced Memetic Algorithms**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Operational Freight Carrier Planning Basic Concepts Optimization Models And Advanced Memetic Algorithms**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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