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Dynamic Fleet Management Dynamic Fleet Management

Marin Lujak



Dynamic Fleet Management Dynamic Fleet Management:

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 *Dynamic Fleet Management for International Truck Transportation* Steffen Schorpp, 2011-05-19 Two new dynamic planning approaches incorporating all important real life restrictions such as regulations on driving and working hours are developed and evaluated Extensive numerical tests are carried out with a five week real life data set from an international freight forwarding company *Hybrid Approaches to Solve Dynamic Fleet Management Problems* Yöng-jin Kim, 2003 *Evaluation of Dynamic Fleet Management Systems* Amelia C. Regan, Hani S. Mahmassani, Patrick Jaillet, 1998
Transportation and Information Piyushimita (Vonu) Thakuria, D. Glenn Geers, 2013-06-18 Transformations in wireless connectivity and location aware technologies hold the promise of bringing a sea change in the way transportation information is generated and used in the future Sensors in the transportation system when integrated with those in other sectors for example energy utility and health have the potential to foster novel new ways of improving livability and sustainability The end result of these developments has been somewhat contradictory Although automation in the transportation environment has become increasingly widespread the level of involvement and active participation by people in terms of co creation and contribution of information has also increased As a result the following two major trends have been observed 1 increases in Machine to Machine M2M communications and 2 increases in the variety and volume of User Generated Content In this transportation paradigm the pervasive use of Information and Communication Technologies will serve as the foundation for mobility intelligence towards an ubiquitous information centered mobility environment However many technical and operational questions as well as social management and legal challenges present themselves in the transformation to this vision The book presents a non technical review of research and initiatives and a discussion of such opportunities and challenges 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 solução sobre um horizonte de planejamento longo. Visando contornar essa dificuldade, Powell e Carvalho (1998) desenvolveram uma nova abordagem para problemas desse tipo: a *Logistics Queuing Network LQN*. A utilização do algoritmo LQN na prática através de um software permitiria uma tomada de decisão mais rápida e eficiente, sendo bastante útil em especial para empresas de transportes. Assim, implementou-se o algoritmo LQN através do desenvolvimento de um software para o gerenciamento de frotas de grande porte por meio do qual pode-se constatar o potencial de aplicação desse algoritmo.

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.

Freight Transport Modelling Moshe E. Ben-Akiva, Hilde Meersman, Eddy Van de Voorde, 2013-05-14. This title addresses the need to develop new freight transport models and scientific tools to provide sound solutions that consider the wide range of internal and external impacts. The international contributions push forward frontiers in freight transport modelling and analysis.

Multi-Agent Systems and Agreement Technologies Michael Rovatsos, George Vouros, Vicente Julian, 2016-04-16. This book constitutes the revised selected papers from the 13 European Conference on Multi Agent Systems (EUMAS 2015) and the Third International Conference on Agreement Technologies (AT 2015) held in Athens, Greece in December 2015. The 36 papers presented in this volume were carefully reviewed and selected from 65 submissions. They are organized in topical sections named: coordination and planning, learning and optimization, argumentation and negotiation, norms, trust and reputation, agent based simulation and agent programming.

Straight and Level Stephen Holloway, 2017-11-01. This title was first published in 2003. Airline operating profits are well known to be volatile and the global industry aggregate figures conceal wide differences in performance between carriers. The fundamental reasons for the poor performance of the industry as a whole were in the early 1990s that output ran too far ahead of demand and the yield earned on output sold was insufficient to cover costs. In strategic context, this second edition uses a simple yet powerful

model to explore linkages between the fundamentals of airline economics and the volatility of industry results at the operating level Its five parts look in turn at strategic context supply side demand side network management and a general conclusion

Agreement Technologies Marin Lujak, 2019-04-03 This book constitutes the revised selected papers from the 6th International Conference on Agreement Technologies AT 2018 held in Bergen Norway in December 2018 The 11 full papers and 6 short papers presented in this volume were carefully reviewed and selected from a total of 28 submissions The papers discuss new ideas and techniques for the design implementation and verification of next generation open distributed systems centered on the notion of agreement among computational agents They are organized in the following topical sections AT foundations and modelling of reasoning agents argumentation and negotiation coordination in open distributed systems with applications

Re-engineering Manufacturing for Sustainability Andrew Y. C. Nee, Bin Song, Soh-Khim Ong, 2013-04-08 This edited volume presents the proceedings of the 20th CIRP LCE Conference which cover various areas in life cycle engineering such as life cycle design end of life management manufacturing processes manufacturing systems methods and tools for sustainability social sustainability supply chain management remanufacturing etc

Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0 Vikram Bali, Vishal Bhatnagar, Deepti Aggarwal, Shivani Bali, Mario José Diván, 2021-12-23 This book addresses topics related to the Internet of Things IoT machine learning cyber physical systems cloud computing and autonomous vehicles in Industry 4.0 It investigates challenges across multiple sectors and industries and considers Industry 4.0 for operations research and supply chain management Cyber Physical IoT and Autonomous Systems in Industry 4.0 encourages readers to develop novel theories and enrich their knowledge to foster sustainability It examines the recent research trends and the future of cyber physical systems IoT and autonomous systems as they relate to Industry 4.0 This book is intended for undergraduates postgraduates academics researchers and industry individuals to explore new ideas techniques and tools related to Industry 4.0

Handbook of Transportation Science Randolph Hall, 2012-12-06 Over the past thirty five years a tremendous body of both theoretical and empirical research has been established on the science of transportation The Handbook of Transportation Science has collected and synthesized this research into a systematic treatment of this field covering its fundamental concepts methods and principles The purpose of this handbook is to define transportation as a scientific discipline that transcends transportation technology and methods Whether by car truck airplane or by a mode of transportation that has not yet been conceived transportation obeys fundamental properties The science of transportation defines these properties and demonstrates how our knowledge of one mode of transportation can be used to explain the behavior of another Transportation scientists are motivated by the desire to explain spatial interactions that result in movement of people or objects from place to place Its methodologies draw from physics operations research probability and control theory It is fundamentally a quantitative discipline relying on mathematical models and optimization algorithms to explain the phenomena of transportation The fourteen chapters in the

handbook are written by the leading researchers in transportation science in an effort to define and categorize for the first time the scientific nature and state of the art of the field As such it is directed to the broader research community transportation practitioners and future transportation scientists

Multimodal Transport Systems Slim Hammadi, Mekki Ksouri, 2013-12-11 The use and management of multimodal transport systems including car pooling and goods transportation have become extremely complex due to their large size sometimes several thousand variables the nature of their dynamic relationships as well as the many constraints to which they are subjected The managers of these systems must ensure that the system works as efficiently as possible by managing the various causes of malfunction of the transport system vehicle breakdowns road obstructions accidents etc The detection and resolution of conflicts which are particularly complex and must be dealt with in real time are currently processed manually by operators However the experience and abilities of these operators are no longer sufficient when faced with the complexity of the problems to be solved It is thus necessary to provide them with an interactive tool to help with the management of disturbances enabling them to identify the different disturbances to characterize and prioritize these disturbances to process them by taking into account their specifics and to evaluate the impact of the decisions in real time Each chapter of this book can be broken down into an approach for solving a transport problem in 3 stages i e modeling the problem creating optimization algorithms and validating the solutions The management of a transport system calls for knowledge of a variety of theories problem modeling tools multi objective problem classification optimization algorithms etc The different constraints increase its complexity drastically and thus require a model that represents as far as possible all the components of a problem in order to better identify it and propose corresponding solutions These solutions are then evaluated according to the criteria of the transport providers as well as those of the city transport authorities This book consists of a state of the art on innovative transport systems as well as the possibility of coordinating with the current public transport system and the authors clearly illustrate this coordination within the framework of an intelligent transport system

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About the Authors Slim Hammadi is Full Professor at the Ecole Centrale de Lille in France and Director of the LAGIS Team on Optimization of Logistic systems He is an IEEE Senior Member and specializes in distributed optimization multi agent systems supply chain management and metaheuristics Mekki Ksouri is Professor and Head of the Systems Analysis Conception and Control Laboratory at Tunis El Manar University National Engineering School of Tunis ENIT in Tunisia He is an IEEE Senior Member and specializes in control systems nonlinear systems adaptive control and optimization The multimodal transport network customers need to be

oriented during their travels A multimodal information system MIS can provide customers with a travel support tool allowing them to express their demands and providing them with the appropriate responses in order to improve their travel conditions This book develops methodologies in order to realize a MIS tool capable of ensuring the availability of permanent multimodal information for customers before and while traveling considering passengers mobility *Geometric Modelling, Numerical Simulation, and Optimization*: Geir Hasle,Knut-Andreas Lie,Ewald Quak,2007-06-10 This edited volume addresses the importance of mathematics for industry and society by presenting highlights from contract research at the Department of Applied Mathematics at SINTEF the largest independent research organization in Scandinavia Examples range from computer aided geometric design via general purpose computing on graphics cards to reservoir simulation for enhanced oil recovery Contributions are written in a tutorial style *Intelligent Transportation Systems (ITS)* Beatriz L. Boada,2021-04-22 This book presents collective works published in the recent Special Issue SI entitled Intelligent Transportation Systems ITS These works address problems of mobility environmental pollution and road safety as well as their related applications The presented problems are complex and involve a large number of research areas and many advanced technologies such as communication sensing and control which are used for managing a large amount of information The applications vary and include fleet management driving behavior traffic control trajectory planning connected vehicles and energy consumption efficiency Recent advances in communication technologies are becoming fundamental for the development of new advances in fleet management traffic control and connected vehicles This works collected in this Special Issue propose solution methodologies to address such challenges analyze the proposed methodologies and evaluate their performance This book brings together a collection of multidisciplinary works applied to ITS applications in a coherent manner *Advances in Spatial Data Handling and Analysis* Francis Harvey,Yee Leung,2015-06-29 This book contains a selection of papers from the 16th International Symposium on Spatial Data Handling SDH the premier long running forum in geographical information science This collection offers readers exemplary contributions to geospatial scholarship and practice from the conference s 30th anniversary **Innovations in Distribution Logistics** Luca Bertazzi,M. Grazia Speranza,Jo van Nunen,2009-04-21 In a globalized economy logistics has become a crucial area for the success of companies The performance of each company depends on the performance of its suppliers and of its business partners The customers of each company are spread on a large geographical space For this reason distribution logistics is the most important and complex part of logistics An efficient and effective management of distribution logistics is a key issue for the success of a company There are many different problems to deal with from facility location to transportation to inventory management and most important to the integration and optimization of the entire logistics network Quantitative methods provide relevant tools to support decisions from strategic to operational in distribution logistics *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

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