

Produktion und Logistik

Steffen Schorpp

Dynamic Fleet Management for International Truck Transportation

Focusing on Occasional
Transportation Tasks



RESEARCH

Dynamic Fleet Management For International Truck Transportation Focusing On Occasional Transportatio

Marlin Wolf Ulmer



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Approximate Dynamic Programming for Dynamic Vehicle Routing Marlin Wolf Ulmer, 2017-04-19 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

Innovative Intelligent Industrial Production and Logistics Sergio Terzi, Kurosh Madani, Oleg Gusikhin, Hervé Panetto, 2023-12-22 This book constitutes the proceedings of the 4th International Conference IN4PL 2023 held in Rome Italy during November 15 17 2023 The 11 full papers and the 13 short papers included in this volume were carefully reviewed and selected from 33 submissions The book focuses on research and development involving innovative methods software and hardware whereby intelligent systems are applied to industrial production and logistics This is currently related to the concept of industry 4.0 an expression reflecting the trend towards automation and data exchange in manufacturing technologies and processes which include cyber physical systems the industrial internet of things industrial robotics cloud computing cognitive computing and artificial intelligence

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