

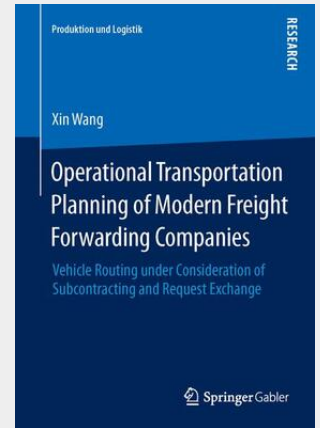
Wang

Operational Transportation Planning of Modern Freight Forwarding Companies

Vehicle Routing under Consideration of Subcontracting and Request Exchange

Modern freight forwarding companies attempt to cooperate with each other to increase their efficiency. Xin Wang studies the new operational transportation planning problems that arise in the context of cooperation in both static and dynamic scenarios. To achieve the cost-savings embedded in cooperation, novel planning approaches that can help forwarders obtaining high-quality solutions are proposed. Computational studies show considerable benefits that can be achieved through cooperation.

Modern freight forwarding companies attempt to cooperate with each other to increase their efficiency. Xin Wang studies the new operational transportation planning problems that arise in the context of cooperation in both static and dynamic scenarios. To achieve the cost-savings embedded in cooperation, novel planning approaches that can help forwarders obtaining high-quality solutions are proposed. Computational studies show considerable benefits that can be achieved through cooperation. Contents - Integrated Operational Transportation Planning Considering Subcontracting - Distributed Decision-Making for Collaborative Transportation Planning of Horizontal Coalitions of Forwarders - Rolling Horizon Planning for Dynamic Collaborative Vehicle Routing Target Groups - Researchers and students in the fields of management science, operations research and quantitative logistics - Executives of freight forwarding companies, consultants and software engineers in the areas of transportation planning and optimization The Author Dr. Xin Wang wrote his dissertation under the supervision of Prof. Dr.-Ing. Herbert Kopfer at the Chair of Logistics at the University of Bremen. The Editors The series Produktion und Logistik is edited by Prof. Dr. Bernhard Fleischmann, Prof. Dr. Martin Grunow, Prof. Dr. Hans-Otto Günther, Prof. Dr. Stefan Helber, Prof. Dr. Karl Inderfurth, Prof. Dr. Herbert Kopfer, Prof. Dr. Herbert Meyr, Prof. Dr. Thomas S. Spengler, Prof. Dr. Hartmut Stadtler, Prof. Dr. Horst Tempelmeier and Prof. Dr. Gerhard Wäscher.



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