

Contents

Part I Invited Contribution

Condition-Based Maintenance Planning Within the Aviation Industry	3
Rainer Lasch and Roy Fritzsche	

Part II Procurement

Considering Small and Medium-Sized Suppliers in Public Procurement—The Case of the German Defence Sector	19
Michael Eßig and Andreas H. Glas	
Integration of Cultural Aspects in Supplier Evaluation	35
Stefan Winter and Rainer Lasch	

Part III Supply Chain Coordination

RoRA-SCM—Review of the Integration of Flexibility Planning in Supply Chains	51
Immanuel Zitzmann	
Coordination in Multimodal Supply Chains: Drafting an Agent-Based Exchange	63
René Föhring and Stephan Zelewski	
Flexibility of 3PL Contracts: Practical Evidence and Propositions on the Design of Contract Flexibility in 3PL Relationships	75
Ute David	

Part IV Resource Management

Extended Model Formulation of the Facility Layout Problem with Aisle Structure.	89
Armin Klausnitzer and Rainer Lasch	
Integrated Facility Location, Capacity and Production Planning in a Multi-Commodity Closed Supply Chain Network.	103
Leena Steinke and Kathrin Fischer	
Integrated Make-or-Buy and Facility Layout Problem with Multiple Products	121
Bernd Hillebrand and Grigory Pishchulov	
Qualification and Competence Related Misfits in Logistics Companies: Identification and Measurement.	133
Sebastian Wünsche	

Part V Flexible Production Management

A Lot Streaming Model for a Re-entrant Flow Shop Scheduling Problem with Missing Operations.	149
Richard Hinze	
Identifying Complexity-Inducing Variety: Adapting ClustalW for Semiconductor Industry	159
Jan Müller, André Wenzel and Rainer Lasch	
Consideration of Redundancies in the Configuration of Automated Flow Lines	173
Christoph Müller, Christian Weckenborg, Martin Grunewald and Thomas S. Spengler	

Part VI Distribution Management

Prepositioning of Relief Items Under Uncertainty: A Classification of Modeling and Solution Approaches for Disaster Management	189
Emilia Graß and Kathrin Fischer	
Forecasting Misused E-Commerce Consumer Returns.	203
Stefan Drechsler and Rainer Lasch	

A Rollout Algorithm for Vehicle Routing with Stochastic Customer Requests	217
Marlin W. Ulmer, Dirk C. Mattfeld, Marco Hennig and Justin C. Goodson	

A Real-World Cost Function Based on Tariffs for Vehicle Routing in the Food Retailing Industry	229
Felix Tamke	

Part VII Transport Management

An Adaptive Large Neighborhood Search for the Reverse Open Vehicle Routing Problem with Time Windows	243
Kristian Schopka and Herbert Kopfer	

A Two-Stage Iterative Solution Approach for Solving a Container Transportation Problem	259
Mengqi Wang, Bingjie Liu, Jiewei Quan and Julia Funke	

Vehicle Routing and Break Scheduling by a Distributed Decision Making Approach	273
Herbert Kopfer, Christoph Manuel Meyer and Hendrik Braun	

Logistics Management

Contributions of the Section Logistics of the German
Academic Association for Business Research, 2015,
Braunschweig, Germany

Mattfeld, D.C.; Spengler, Th.S.; Brinkmann, J.;
Grunewald, M. (Eds.)

2016, XIII, 284 p. 40 illus., 7 illus. in color., Hardcover
ISBN: 978-3-319-20862-6