Contents

Logistics and Supply Chain Management: Developments and Trends ............................................ 1
Henk Zijm and Matthias Klumpp

Part I Logistics Innovation and Sustainability

Synchromodal Transport Planning at a Logistics Service Provider ........................................ 23
Martijn R.K. Mes and Maria-Eugenia Iacob

DAVINC3I: Towards Collaborative Responsive Logistics Networks in Floriculture .......................... 37
Jack G.A.J. van der Vorst, Robert Ossevoort, Marlies de Keizer,
Tom van Woensel, Cor N. Verdouw, Edwin Wenink,
Rob Koppes and Robbert van Willegen

Towards Efficient Multimodal Hinterland Networks ........................ 55
Albert W. Veenstra and Rob A. Zuidwijk

Current Deficiencies and Paths for Future Improvement in Corporate Sustainability Reporting ........................ 67
Thomas Kjaergaard, Martin C. Schleper and Christoph G. Schmidt

Sustainable Fuels for the Transport and Maritime Sector:
A Blueprint of the LNG Distribution Network ............................... 85
Simon K. Thunnissen, Luke G. van de Bunt and Iris F.A. Vis

Efficiency Optimization for Cold Store Warehouses
Through an Electronic Cooperation Platform .............................. 105
Raphael Heereman von Zuydtwyck and Holger Beckmann
<table>
<thead>
<tr>
<th>Part II</th>
<th>Urban Logistics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Urban Freight Transportation: Challenges, Failures and Successes</strong></td>
<td>127</td>
</tr>
<tr>
<td>Goos Kant, Hans Quak, René Peeters and Tom van Woensel</td>
<td></td>
</tr>
</tbody>
</table>

| **The Role of Fairness in Governing Supply Chain Collaborations—A Case-Study in the Dutch Floriculture Industry** | 141 |
| G. Robbert Janssen, Ard-Pieter de Man and Hans J. Quak |

| **Reducing the Environmental Impact of Urban Parcel Distribution** | 159 |
| Theodoros Athanassopoulos, Kerstin Dobers and Uwe Clausen |

| **Order Fulfillment and Logistics Considerations for Multichannel Retailers** | 183 |
| Kees Jan Roodbergen and Inger B. Kolman |

<table>
<thead>
<tr>
<th>Part III</th>
<th>Value Chain Management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Connecting Inventory and Repair Shop Control for Repairable Items</strong></td>
<td>199</td>
</tr>
<tr>
<td>Martin A. Driessen, Jan Willem Rustenburg, Geert-Jan van Houtum and Vincent C.S. Wiers</td>
<td></td>
</tr>
</tbody>
</table>

| **Knowledge Lost in Data: Organizational Impediments to Condition-Based Maintenance in the Process Industry** | 223 |
| Robert M. van de Kerkhof, Henk A. Akkermans and Nils G. Noorderhaven |

| **Planning Services: A Control Tower Solution for Managing Spare Parts** | 239 |
| Jan Willem Rustenburg |

| **Impediments to the Adoption of Reverse Factoring for Logistics Service Providers** | 261 |
| Christiaan A.J. de Goeij, Alexander T.C. Onstein and Michiel A. Steeman |
Part IV  IT-Based Innovation

Towards an Approach for Long Term AIS-Based Prediction of Vessel Arrival Times ........................................ 281
Alexander Dobrkovic, Maria-Eugenia Iacob, Jos van Hillegersberg,
Martin R.K. Mes and Maurice Glandrup

Modular IT-Support for Integrated Supply Chain Design ............ 295
Matthias Parlings, Tobias Hegmanns, Philipp Sprenger
and Daniel Kossmann

Intelligent Control of Freight Services on the Basis of Autonomous Multi-agent Transport Coordination ...................... 313
Frank Arendt, Oliver Klein and Kai Barwig

Smart.NRW—RFID as Enabler for an Intelligent FMCG Supply Chain ................................................................. 325
Kerem Oflagil, Christian Hocken, Fabian Schenk, Oliver Teschl,
Thorsten Lehr, Mareike de Boer, Christoph Schröder and Rainer Alt

Melissa Robles, Juan Diego Serrano, Maria Laura Maragunic
and Bernd Noche

Cross-Process Production Control by Camera-Based Quality Management Inside a Logistic Assistance System .......... 353
Markus Zajac and Christian Schwede

Logistics Mall—A Cloud Platform for Logistics ...................... 363
Damian Daniluk, Maren Wolf, Oliver Wolf and Michael ten Hompel

Part V  Logistics Training and Knowledge Management

Problem-Oriented Knowledge Management for Efficient Logistics Processes ...................................................... 377
Natalia Straub, Christoph Besenfelder and Sandra Kaczmarek
Logistics Qualification: Best-Practice for a Knowledge-Intensive Service Industry ........................................ 391 Matthias Klumpp

Serious Games for Improving Situational Awareness in Container Terminals ........................................ 413 Alexander Verbraeck, Shalini Kurapati and Heide Lukosch
Logistics and Supply Chain Innovation
Bridging the Gap between Theory and Practice
Zijm, H.; Klumpp, M.; Clausen, U.; Hompel, M.t. (Eds.)
2016, XXII, 431 p. 102 illus., 64 illus. in color., Hardcover
ISBN: 978-3-319-22287-5