# Table of Contents

Preface..................................................................................................................................................vii

## Section 1
**Innovation in Supply Chain Integration**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply Chain Integration: Challenges and Solutions</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Edward Sweeney, Dublin Institute of Technology, Ireland</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>From Integration to Alignment: Challenges and Solutions</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>John Gattorna, Gattorna Alignment, USA</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Integration Strategies for Electronic Device Supply Chains</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Claudia-Maria Wagner, Dublin Institute of Technology, Ireland</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Colm Ryan, Dublin Institute of Technology, Ireland</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Supply Chain Integration in the Textile and Garment Industries: Some Observations from Thailand</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Ruth Banomyong, Thammasat University, Thailand</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Supply Chain Integration and Port Competitiveness: A Network Approach</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>Marcella De Martino, National Research Council, Italy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alessandra Marasco, National Research Council, Italy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alfonso Morvillo, National Research Council, Italy</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Implementing Integrated Supply Chain Management</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Dermot Carey, MRM-Global, Ireland</td>
<td></td>
</tr>
</tbody>
</table>
Section 2
ICT Supply Chain Innovation

Chapter 7
Adding Value to Logistics Services using ICT: A Case Study Analysis of Small Logistics Companies in Italy ................................................................. 98
Pietro Evangelista, IRAT-CNR & University of Naples Federico II, Italy

Chapter 8
Innovative ICT Applications in Transport and Logistics: Some Evidence from Asia ........................................................... 123
Mark Goh, University of South Australia, Australia
& National University of Singapore, Singapore
Kym Fraser, University of South Australia, Australia

Chapter 9
Using Sensor-Based Measurement Technology to Reduce the Environmental Impact of Perishable Goods ................................................................. 137
Alexander Ilic, ETH Zurich, Switzerland
Thorsten Staake, ETH Zurich, Switzerland
Elgar Fleisch, ETH Zurich & University of St. Gallen, Switzerland

Chapter 10
Managing Uncertain Inventory in Supply Chain with Neural Network and Radio Frequency Identification (RFID) ................................................................. 155
CKM Lee, Nanyang Technological University, Singapore
Ng Wenwei Benjamin, Nanyang Technological University, Singapore
Shaligram Pokharel, Qatar University, Qatar

Chapter 11
Intelligent Freight Transportation System: The Effects on Transportation Operations Performance ................................................................. 171
Gunnar Stefansson, Chalmers University of Technology, Sweden
& University of Iceland, Iceland

Section 3
Sustainability Innovation

Chapter 12
Improving the Sustainability of Road Freight Transport by Relaxing Truck Size and Weight Restrictions ................................................................. 185
Alan McKinnon, Heriot-Watt University, UK
Chapter 13  
The Role of Urban Consolidation Centres in Sustainable Freight Transport  
Julian Allen, University of Westminster, UK  
Michael Browne, University of Westminster, UK  
Jacques Leonardi, University of Westminster, UK  
Allan Woodburn, University of Westminster, UK.

Chapter 14  
The Role of Logistics Service Providers in the Development of Sustainability-Related Innovation  
Maria Huge-Brodin, Linköping University, Sweden

Chapter 15  
Reverse Logistics for Sustainable Waste Management Processes  
Fraser McLeod, University of Southampton, UK  
Tom Cherrett, University of Southampton, UK

Section 4  
Innovation in Supply System Management

Chapter 16  
Discontinuous Innovation in Supply Relationship Management: Two Cases and a Future Research Direction  
Richard Lamming, University of Exeter Business School, UK  
Fu Jia, University of Exeter Business School, UK

Chapter 17  
How to Use the Evaluation of Suppliers to Develop the Supply System  
Emilio Esposito, University of Naples Federico II, Italy  
Renato Passaro, University of Naples Parthenope, Italy

Chapter 18  
Being a Preferred Customer of Leading Suppliers and its Impact on Supplier Contribution to Innovation  
Holger Schiele, University of Twente, The Netherlands  
Jasper Veldman, University of Twente, The Netherlands  
Lisa Hüttinger, University of Twente, The Netherlands

Chapter 19  
The Human Side of Supply Chains: A Behavioural Perspective of Supply Chain Risk Management  
Alessandro Ancarani, University of Catania, Italy  
Carmela Di Mauro, University of Catania, Italy
Chapter 20
Risk Management: A New Way to Improve Logistics Outsourcing
Thierry Sauvage, Aix-Marseille University, France
Mohamed Haouari, Aix-Marseille University, France

About the Contributors

Index