

Contents

Part I Supply Chain Management and Sustainability

The Impact of Demographic Changes on Human Resources Management in European Supply Chains-Selected Aspects	3
Halina Brdulak	
Barriers of the Supply Chain Integration Process	15
Anjali Awasthi and Katarzyna Grzybowska	
The Essence of Integration in Supply Chains and Reverse Supply Chains: Similarities and Differences	31
Martyna Kupczyk, Łukasz Hadaś, Piotr Cyplik and Żaneta Pruska	
Supply Chain Integration in View of Secondary Raw Materials	47
Żaneta Pruska, Łukasz Hadaś, Piotr Cyplik and Martyna Kupczyk	
Integration Level Measurement System in Modeling Forward and Backward Supply Chains	59
Łukasz Hadaś, Piotr Cyplik and Michał Adamczak	
Green Supplier Selection Criteria: From a Literature Review to a Flexible Framework for Determination of Suitable Criteria	79
Izabela Ewa Nielsen, Narges Banaeian, Paulina Golińska, Hossein Mobli and Mahmoud Omid	
A Model for Optimizing Traceability of Product in a Supply Chain Based on Batch Dispersion	101
Muhammad Saad Memon, Young Hae Lee and Sonia Irshad Mari	
Investigating the Readiness of the Grocery Retail Chains for Virtual Supply Chain Technology in Egypt	115
Sama Gad, Khaled Hanafy and Sara Elzarka	

Fuzzy TOPSIS/SCOR-Based Approach in Assessment of RFID Technology (ART) for Logistics of Manufacturing Companies	129
Bartłomiej Gładysz and Krzysztof Santarek	
Comarch EDI Platform Case Study: The Advanced Electronic Data Interchange Hub as a Supply-Chain Performance Booster	143
Piotr Reichert	
Modelling Integration Process Planning in the Supply Chain Using SOP Approach	157
Michał Adamczak, Łukasz Hadaś, Roman Domański and Piotr Cyplik	
Problems of Logistic Systems Vulnerability and Resilience Assessment	171
Tomasz Nowakowski and Sylwia Werbińska-Wojciechowska	
The Category of Risk Management in a Company with High Level of Customization	187
Anna K. Stasiuk-Piekarska, Łukasz Hadaś and Magdalena K. Wyrwicka	
Literature Study Overseas on SCM Strategy with a State of Art SCM Strategy Model	201
Angela Y. Y. Chen, Yutaka Karasawa, Nobunori Aiura, Kuninori Suzuki and Keizo Wakabayashi	
Part II Reverse Logistics and Environmental Sustainability	
Single Forward and Reverse Supply Chain	229
Ahmad E. Alozn, Moza S. Al Naimi and Omar Y. Asad	
A Case Study of H&M's Strategy and Practices of Corporate Environmental Sustainability	241
Danny C. K. Ho	
Efficient Chemical Management in Global Paint Industry: A Case Study in Sri Lanka	255
T. Sunil Somasiri Gomes	

A Consideration on the Functions of Logistic Parks Against Great Disasters	269
Keizo Wakabayashi, Kuninori Suzuki, Akihiro Watanabe, Yutaka Karasawa and Koichi Murata	
A Consideration of a Reverse Logistics Network Over a Wider Area	277
Kuninori Suzuki, Keizo Wakabayashi, Akihiro Watanabe and Yutaka Karasawa	
A Consideration on an Effective Reverse Logistics System for Discarded Tires	285
Kuninori Suzuki, Nobunori Aiura and Yutaka Karasawa	
Analysis of Effective Recycle System for Used Personal Computers in Japan	293
Akihiro Watanabe, Kuninori Suzuki, Keizo Wakabayashi and Yutaka Karasawa	
Optimal Reutilization of the Leased Products in a Closed Loop Supply Chain	303
Hsiao-Fan Wang and Chang-Fu Hsu	
 Part III Modeling and Optimization of the Manufacturing Operations	
A Pareto-Archived Differential Evolution Algorithm for Multi-Objective Flexible Job Shop Scheduling Problems.	325
Warisa Wisittipanich and Voratas Kachitvichyanukul	
Sugarcane Harvest Scheduling to Maximize Total Sugar Yield with Consideration of Equity in Quality Among the Growers	341
Kanchana Sethanan, Somnuk Theerakulpisut and Woraya Neungmatcha	
Production Scheduling in Food Freezing Process Under the Effect of Freezer-Door Opening	353
Pachara Chatavithee and Supachai Pathumnakul	
Redefinition of Tasks to Increase the Process Capacity of Bottlenecks: Adjustment to a Real Case of Cutting Process of Structural Profiles of Carbon Steel	363
Clemente Lobato Carral and Carlos Andrés Romano	

Examining Effect of JITP Implementation on Performance of Jordanian Firms	381
Abbas Al-Refaie and Nour Bata	
Analysis and Improvement of the Process Engineer's Levels of Competence in a Manufacturing Company.	395
Małgorzata Spychała	
Modeling and Performance Improvement: The Remedy to Treat Social and Environment Issues for Enterprises in Today's Difficult Economic Climate	411
Paul-Eric Dossou and Philip Mitchell	
Energy Audit Methodology and Energy Savings Plan in the Nautical Industry	425
Gilles Dedeban, Philip Mitchell and Paul-Eric Dossou	
 Part IV Optimization of the Location Problems, the Inventory Management and the Vehicle Routing Problems	
Strategic Inventory Positioning for MTO Manufacturing Using ASR Lead Time.	441
Suk-Chul Rim, Jingjing Jiang and Chan Ju Lee	
Improving Efficiency of a Process in Warehouse with RFID: A Case Study of Consumer Product Manufacturer.	457
Natanaree Sooksaksun and Sriyos Sudsertsin	
Model of Forklift Truck Work Efficiency in Logistic Warehouse System	467
Paweł Zając	
The Integration of Environmental Foot-Printing Strategies to the Capacitated Warehouse Location Problem with Risk Pooling	481
Noura Al Dhaheri, Maria Polo Alvez and Shin Ju-Young	
Storage Location Assignment Considering Three-Axis Traveling Distance: A Mathematical Model	499
Chompoonoot Kasemset and Pongsakorn Meesuk	
Solving a Multi-objective, Source and Stage Location-Allocation Problem Using Differential Evolution.	507
Rapeepan Pitakaso and Thongpoon Thongdee	

A Study on the Optimum Location of the Central Post Office in Bangkok: Applying the Travelling Salesman Problem.	525
Keizo Wakabayashi, Akihiro Watanabe, Jun Toyotani, Kuninori Suzuki, Koichi Murata and Sarinya Sala-ngam	
A Closed-Loop Capacitated Warehouse Location Model with Risk Pooling	539
Nabil Kenan, Marwa Attiya and Bedoor AlShebli	
A Joint Inventory-Location Model with CO₂ Emission Taken into Account in Design of a Green Supply Chain.	553
Faisal Alkaabneh, Abdullah Kaya and Jasem AlHammadi	
Analysis and Suggestion of an e-Commerce Logistics Solution: Effects of Introduction of Cloud Computing Based Warehouse Management System in Japan	567
Keizo Wakabayashi, Kuninori Suzuki, Akihiro Watanabe and Yutaka Karasawa	
A Simulated Annealing Heuristic for the Vehicle Routing Problem with Cross-docking	575
Vincent F. Yu, Parida Jewpanya and A. A. N. Perwira Redi	
Pollution-Inventory Routing Problem with Perishable Goods	585
Ahmed Al Shamsi, Ammar Al Raisi and Muhammad Aftab	
A Meta-heuristic Approach for VRP with Simultaneous Pickup and Delivery Incorporated with Ton-Kilo Basis Saving Method	597
Yoshiaki Shimizu and Tatsuhiko Sakaguchi	
Inventory Routing Problem with CO₂ Emissions Consideration	611
Nasir Alkawaleet, Yi-Fang Hsieh and Yanxiang Wang	

Logistics Operations, Supply Chain Management and
Sustainability

Golinska-Dawson, P. (Ed.)

2014, XI, 619 p. 209 illus., 66 illus. in color., Hardcover

ISBN: 978-3-319-07286-9