

Table of Contents

Preface

Chapter 1: Logistics and SCM

The Selected Aspects of Sustainable Development in Supply Chain Management (SCM) P. Bajdor, A. Ulfik and S. Nowak	3
Life Cycle Perspective for Improving Sustainable Supply Chain Management D. Burchart-Korol, M. Graczyk and K. Witkowski	8
Application of the Theory of Constraints in Supply Chain P. Ceniga and V. Šukalová	13
Economical Analysis of Logistics Processes K. Čulková, R. Weiss and E. Weiss	20
NATO Logistics System – Example of the Polish Armed Forces A. Gazda and T. Olejarz	26
Levelling Production – Critical Assumption of Competitive Lean SCM D. Holman, R. Lenort, P. Wicher and D. Staš	33
Evaluation of Supplier Performance from the Perspective of Customers by their Attitudes H. Lostakova, Z. Pecinova, L. Branska, V. Vlckova and M. Patak	39
The Basic Principle of Logistic Theory D. Malindžák	47
Proposal of the Integrated Geothermal Centre Model and its Allocation D. Marasová, J. Jablonská, M. Andrejiová and S. Drevko	53
Contemporary Tasks of Logistics Production E. Michlowicz	59
Green Logistics and its Solutions in Polish Companies S. Nowak and J. Grabara	65
The Map of Logistics Technologies Used in Corporate Logistics A. Rosova, P. Kacmary, R. Hricová and J. Husár	70
Planning as a Part of Distribution Policy in Chosen Company A. Csikosova, M. Antosova and A. Senova	76
Application of Information Logistics in Specific Environment R. Schréter and M. Fill	82
Conceptual Framework for Assessing the Green Transport Level in Industrial Companies and Supply Chains D. Staš, R. Lenort, P. Wicher and D. Holman	87
Using the Tools of Logistics in Terms of Globalization X. Lukoszová and L. Bartuska	93
A New Approach to Eco-Logistics N. Husáková	99

Chapter 2: Logistics in Transportation, City Logistics

Use of Neural Networks for Modelling of Passenger Dynamics in Airport Terminal Environment P. Hlavsová and J. Široký	107
A Comparative Analysis of Sustainable City Logistics among Capital Cities in the EU M. Kiba-Janiak	113
The Implementation Conditions and Socio-Economic Impact Assessment of Solutions in the Area of City Logistics Projects – Selected Problems T. Kołakowski	119
A Comparison of Usage Costs of Roads in Selected EU Countries S. Kot and B. Ślusarczyk	125

Determinants of the Road Traffic Accident Rate in Slovak Republic R. Štefko, M. Kubák and R. Bačík	130
Utilization of Integrated Transport System by U.S. Steel Kosice Employees R. Németh, V. Molnar, L. Olexa and R. Schréter	136
New Method for Design of Transport Infrastructure Elements M. Straka, M. Balog, P. Bindzár, P. Semančo and E. Žatkovič	141
Smart Vehicle Railroad M. Balog, Ž. Šimeková and P. Semančo	148
Disassembled Vehicle Combined Transport System J. Široký	153
Possibilities and Limitations of Electromobiles Utilization M. Straka, T. Chovan, P. Bindzár, E. Žatkovič and R. Hricová	159

Chapter 3: Logistics Concepts of Enterprises and Production

Modern Planning and Control and Virtual Verification of Process Continuity of a New Production Line P. Božek, M. Kňážík and V. Štollmann	167
Optimization of Gross Margin in Outsourcing of Management of Inventory of Spare Parts of Production Equipment S. Brzeziński and K. Grondys	173
Proposal for a New Structure of Enterprise Management Concept for Processing Secondary Raw Materials - Aluminum A. Hačevský and J. Spišák	178
Decision Support System for Flame-Cutting Machines Scheduling R. Lenort, D. Staš, P. Wicher and F. Zapletal	184
Organization of Mounting Division by Use of Material Flow Minimization G. Fedorko and Z. Čujan	190
The Logistic Model of the U-Mo Ore Deposit Opening S. Lukáč and B. Zatwarnicka-Madura	196

Chapter 4: Finance and Management

Financial Logistics of Small and Medium Sized Enterprises A. Dankova and M. Telus	205
Financial Management of Non-Profit Organization Providing Specific Services Z. Hajduová and N. Husáková	210
Integrated Risk Management and its Influence to the Increasing of the Firm's Value J. Zuzík, R. Weiss and L. Mixtaj	216
Electronic Cash Registers as a Part of the Fight against Tax Evasion A. Bánociová and Ľ. Pavliková	222
Valuation of Business Assets Ľ. Pavliková and A. Kralík	228
A Company Level Performance Measurement through the Evaluation of Production Processes Performance M. Daňo, N. Horňáková, H. Vidová and S. Saniuk	233
Using of Bankruptcy Indexes for Slovak Mining Firm Development E. Weiss, K. Čulková and L. Mixtaj	239
Methodics to Create Effective Inventory Management System in a Company M. Hart, M. Musil and P. Taraba	245
Improving Accuracy of the Numerical Model Forecasting Commodity Prices M. Lascsáková	251
System of Supplier's Selection and Evaluation for Increasing of Buying Process Effectiveness in the Company M. Antosova, A. Senova and A. Csikosova	257

Analysis of Possible Failures and its Application in Complex Determination of their Consequences Z. Cujan and G. Fedorko	263
--	-----

Chapter 5: Logistics Applications

Data Preparation for Logistic Modelling of Flood Crisis in GIS Environment M. Blistanova and P. Blistan	271
INSPIRE and Availability Digital Data for Modelling of Flood Risk and Logistics Planning P. Blistan, M. Blistanova and H. Pacaiova	276
System Design of Manual Picking of Goods in Small Trade-Distribution Company with the Importance on the Volume of Transported Goods J. Martinčková and D. Malindžák	282
Codification as Part of Knowledge Management in Research Projects in the Field of Metallurgy K. Regulski, S. Kluska-Nawarecka and D. Wilk-Kołodziejczyk	288
Efficiency Control in Industrial Enterprises A. Saniuk, S. Saniuk, M. Jasiulewicz-Kaczmarek and P. Kuźdowicz	294
Draft Methodology for Selecting the Appropriate Storage Area Design in Intermodal Logistics Center O. Stopka and R. Kampf	300
Allocation of Distribution Warehouse Using Selected Geometric Methods J. Šaderová, M. Malindžáková, J. Husár and R. Schréter	306
Proposal of Factors for Multicriteria Appraisal of Performance of Car Repair Shop Employees M. Tkáč and D. Malindžák	312
The Rationalization and Logistics Management Origins in Bata Company M. Tomašík, M. Hart and J. Strohmandl	318
Assessment Plan for Location of Distribution Centres R. Kampf, J. Kolář and P. Lejsková	324
Management Control of RFID Technology Implementation Process S. Matušková, J. Švub and F. Beneš	330