Lyes Benyoucef
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Editors

Springer Series in Advanced Manufacturing

Artificial Intelligence Techniques for Networked Manufacturing Enterprises Management

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Contents

1 Intelligent Manufacturing Systems
E. Oztemel 1
1.1 Introduction 1
1.2 Traditional Manufacturing Systems 3
1.3 Changes in Manufacturing Systems: a Historical Perspective 6
1.4 Artificial Intelligence and Intelligent Manufacturing Systems 13
1.4.1 Technologies of Artificial Intelligence 13
1.4.2 Intelligent Manufacturing Systems 22
1.5 Properties of Intelligent Manufacturing Systems 25
1.6 Architecture of Intelligent Manufacturing Systems 27
1.7 Holonic Manufacturing Systems 33
1.8 Applications of Intelligent Manufacturing Systems 37
1.9 Conclusions 39
References 39

2 Agent-based System for Knowledge Acquisition and Management Within a Networked Enterprise
A.J. Soroka 43
2.1 Agent-based and Related Systems 43
2.1.1 Origins of Agent Research 44
2.1.2 Definition of an Agent 46
2.1.3 Agent Architectures 47
2.1.4 Agent Types and Applications 50
2.1.5 Machine Learning for Generation of Knowledge Bases 53
2.2 Product Fault Knowledge Acquisition and Management 57
2.2.1 Automating Knowledge Base management 57
2.2.2 Analysis of Knowledge Base Management Process 58
2.3 Agent System for Knowledge Acquisition and Management 63
2.3.1 User Agent 65
2.3.2 Server Agent 70

2.3.3 Testing 79
2.4 Conclusions 81
References 81

3 Multi-agent Simulation-based Decision Support System and Application in Networked Manufacturing Enterprises
H. Ding, W. Wang, M. Qiu and J. Dong 87
3.1 Introduction 87
3.2 Literature Review 88
3.2.1 Simulation Methods 89
3.2.2 Multi-agent Simulation 89
3.2.3 Tools and Applications 90
3.3. Problem Description and Approach 91
3.3.1 Platform Architecture 92
3.3.2 Multi-agent Supply Chain Simulation Model 93
3.4 Modeling and Analysis 94
3.4.1 Baseline Simulation Model 95
3.4.2 Scenario Analysis 95
3.4.3 Inventory Control Policy 96
3.4.4 Forecast Accuracy 97
3.4.5 Build-to-plan vs. Build-to-order 99
3.4.6 Procurement Policy 100
3.4.7 Truck Utilization 101
3.5 Conclusions and Perspectives 103
References 104

4 A Collaborative Decision-making Approach for Supply Chain Based on a Multi-agent System
Y. Ouzrout, A. Bouras, E.-H. Nfaoui and O. El Beqqali 107
4.1 Introduction 108
4.2 Distributed Simulation and Supply Chain Management 110
4.2.1 Decision-making and Multi-agent Approaches 111
4.2.2 Multi-agent Systems Simulation 111
4.3 The Supply Chain Modeling 112
4.3.1 Supply Chain Modeling Methodology 113
4.3.2 The Safety Inventory Case Study 114
4.4 The Multi-agent Architecture 116
4.4.1 The Modeling Principle 116
4.4.2 Architecture 117
4.4.3 Negotiation Protocols 120
4.5 Industrial Case Study 122
4.6 Conclusion and Perspectives 125
References 126

5 Web-services-based e-Collaborative Framework to Provide Production Control with Effective Outsourcing
A. Keshari, M. K. Tiwari and R. Teti 129
5.1 Introduction 130
5.2 Literature Review 131
5.3 Design of Web-services-based e-Collaborative Framework 133
5.3.1 The Proposed Framework 133
5.3.2 Design of System Components of Model 134
5.3.3 The Mathematical Model 139
5.3.4 Overall Objective Function 142
5.4 Protocols of Functional Agents 143
5.4.1 Machine Agent Protocol 143
5.4.2 Production Controlling Agent Protocol 144
5.4.3 Task Management Agent (TMA) Protocol 145
5.4.4 Hierarchy of Steps in Web-services-based e-Collaborative System 145
5.5 Results and Discussion 145
5.5.1 Sample-sort Simulated Annealing Algorithm 148
5.5.2 Experimental Analysis 148
5.6 Conclusions 157
References 158

6 Isoarchic and Multi-criteria Control of Supply Chain Network
F. Ounnar and P. Pujo 161
6.1 Introduction 161
6.2 Supply Chain Management Limits 163
6.3 Control of a Dynamic Logistic Network: Isoarchic and Multi-criteria Control 164
6.3.1 Description of the Interacting Entities 165
6.3.2 Definition of Self-organized Control 166
6.3.3 Support Structure: Autonomous Control Entity 171
6.4 Distributed Simulation of a Dynamic Logistic Network 174
6.4.1 High-level Architecture Components 174
6.4.2 Integration of the DEVS-ACE Models in High-level Architecture Environment 175
6.5 Experiments via Simulation 175
6.6 Conclusion and Future Work 178
References 179

7 Supply Chain Management Under Uncertainties: Lot-sizing and Scheduling Rules
A. Dolgui, F. Grimaud and K. Shchamialiova 181
7.1 Introduction 181
7.2 Short Presentation of Lot-sizing and Scheduling Problems 184
7.2.1 Basic Models and Extensions 187

7.2.2 Lot-sizing and Scheduling Under Uncertainties 191
7.2.3 Optimization Techniques 196
7.3 A Case Study 197
7.3.1 Description of the Case Study 197
7.3.2 Representation of Uncertainties 200
7.3.3 Objective Function 202
7.3.4 Decomposition for Optimization 203
7.3.5 Numerical Example 210
7.3.6 Numerical Results 214
7.4 Conclusions 216
References 217

8 Meta-heuristics for Real-time Routing Selection in Flexible Manufacturing Systems
M. Souier, A. Hassam and Z. Sari 221
8.1 Introduction 222
8.2 Literature Review 223
8.3 Job-shop 225
8.3.1 Job-shop Problem 225
8.3.2 Simulation of a Flexible Manufacturing System Environment 226
8.4 Dissimilarity Maximization Method and Modified DMM Rules 228
8.4.1 Dissimilarity Maximization Method for Real-time Routing Selection 228
8.4.2 Modified Dissimilarity Maximization Method for Real-time Routing Selection 229
8.5 Meta-heuristics for Job-shop Routing 230
8.5.1 Ant Colony Optimization 230
8.5.2 Simulated Annealing 231
8.5.3 Particle Swarms Optimization 232
8.5.4 Genetic Algorithms 234
8.5.5 Taboo Search 235
8.5.6 Electromagnetism-like Method 236
8.6 Performance Evaluation of Routing Selection Methods 237
8.6.1 System Simulation Without Presence of Breakdown 237
8.6.2 System Simulation With Presence of Breakdown 241
8.7 Conclusions 246
References 247

9 Meta-heuristic Approaches for Multi-objective Simulation-based Optimization in Supply Chain Inventory Management
D. Sánchez, L. Amodeo and C. Prins 249
9.1 Introduction 249
9.2 Literature Review 251
9.3 Problem Formulation 253

9.4 Implementation of Selected Evolutionary Algorithms 256
9.4.1 Non-dominated Sorting Genetic Algorithm II 256
9.4.2 Strength Pareto Evolutionary Algorithm II 258
9.4.3 Strength Pareto Evolutionary Algorithm IIb 259
9.4.4 Multi-objective Particle Swarm Optimization 260
9.5 Computational Experiments and Analysis 262
9.5.1 Evaluation Criteria 262
9.5.2 Parameters Used 263
9.5.3 Experimental Results 263
9.6 Conclusion 267
References 268

10 Diverse Risk/Cost Balancing Strategies for Flexible Tool Management in a Supply Network
D. D'Addona and R. Teti 271
10.1 Introduction 271
10.2 Multi-agent Tool Management System 272
10.3 Flexible Tool Management Strategies 275
10.3.1 Current Inventory-Level Decision Making (INVADAPT) 277
10.3.2 Fixed-Horizon Inventory-Level Decision Making (I-FUTURE) .. 279
10.3.3 Variable-Horizon Inventory-Level Decision Making (INVADAPT_NS) 280
10.4 Tool Inventory Management Simulations 281
10.4.1 Simulation Through INVADAPT 287
10.4.2 Simulation Through I-FUTURE 294
10.4.3 Simulation Through INVADAPT_NS 301
10.5 Test Case Applications 309
10.6 Conclusions and Future Work 312
References 312

11 Intelligent Integrated Maintenance Policies for Manufacturing Systems
N. Rezg and S. Dellagi 315
11.1 Introduction 315
11.2 Optimal Maintenance Policy Considering the Influence of the Production Plan on the Deterioration of the Manufacturing System 318
11.2.1 Problem Statement 318
11.2.2 Problem Formulation 319
11.2.3 Influence of Manufacturing System Deterioration on the Optimal Production Plan 324
11.2.4 Optimization of the Maintenance Policy 326
11.3 Intelligent Periodic Preventive Maintenance Policy in Finite Horizon with an Adaptive Failure Law 330
11.3.1 Problem Description 330

11.3.2 Model Formulation and Intelligent Determination of the Optimal Solution 332
11.3.3 Numerical Example 335
11.4 Conclusions 338
References 339

12 Enhancing the Effectiveness of Multi-pass Scheduling Through Optimization via Simulation
T. Yoo, H.-B. Cho and E. Yücesan 341
12.1 Introduction 342
12.2 Multi-pass Scheduling Using Nested Partitions and Optimal Computing Budget Allocation 346
12.2.1 The Proposed Multi-pass Scheduling Framework 346
12.2.2 The Outer Loop: Nested Partitions 346
12.2.3 The Inner Loop: Optimal Computing Budget Allocation 348
12.3 Implementation of Nested Partitions and Optimal Computing Budget Allocation 349
12.3.1 Nested Partitions: Partitioning Strategy 349
12.3.2 Nested Partitions: Sampling Strategy 351
12.3.3 Nested Partitions: Backtracking Strategy 351
12.3.4 Optimal Computing Budget Allocation: Ranking and Selection Strategy 352
12.3.5 Performance of Nested Partitions and Optimal Computing Budget Allocation 353
12.4 Experimental Design and Analysis 354
12.4.1 Experimental Assumptions 354
12.4.2 Experimental Design 356
12.4.3 Experimental Results for the Probability of Correct Selection 357
12.5 Conclusions 363
References 364

13 Intelligent Techniques for Safety Stock Optimization in Networked Manufacturing Systems
B. Desmet, E.-H. Aghezzaf and H. Vanmaele 367
13.1 Introduction 367
13.2 Multi-echelon Inventory Control in Networked Manufacturing Systems 369
13.3 Literature Review 374
13.4 System Safety Stock Optimization in *n*-echelon Distribution Systems 377
13.4.1 Introduction of a Two-echelon Distribution System 378
13.4.2 Characterization of the Back-order Service Time in the Central Warehouse 380
13.4.3 Characterization of the Actual Retailer Replenishment Lead Time 382

13.4.4 System Safety Stock Optimization in a Two-echelon Distribution System 384
13.5 System Safety Stock Optimization in *n*-echelon Assembly Systems 386
13.5.1 Introduction of a Two-echelon Assembly System 386
13.5.2 Characterization of the Backorder Service Time for a Subset of Components 389
13.5.3 Characterization of the Incoming Service Time to the Assembly 390
13.5.4 Characterization of the Actual Assembly Lead Time 391
13.5.5 System Safety Stock Optimization in a two-echelon Assembly System 392
13.5.6 Distribution System as Special Case of the Assembly System 394
13.6 System Safety Stock Optimization in Generic Networks 395
13.6.1 Introduction of a Spanning Tree System 395
13.6.2 Characterization of Actual Replenishment Lead Times in a Spanning Tree System 402
13.6.3 System Safety Stock Optimization for a Spanning Tree System 415
13.6.4 Extension to Generic Systems 416
13.7 Conclusions 418
References 419

14 Real-world Service Interaction with Enterprise Systems in Dynamic Manufacturing Environments
S. Karnouskos, D. Savio, P. Spiess, D. Guinard, V. Trifa and O. Baecker 423
14.1 Motivation 424
14.2 Real-world Awareness 426
14.2.1 Device Integration Protocols 426
14.2.2 Device-to-Business Coupling 428
14.2.3 Integrating Heterogeneous Devices 429
14.3 Enterprise Integration 430
14.4 Integrating Manufacturing Equipment with the SOCRADES Integration Architecture 432
14.5 Towards Dynamic Adaptation 435
14.5.1 Simulation 437
14.5.2 Self-healing Mechanisms 438
14.5.3 Self-optimizing Mechanisms 439
14.6 Concept Validation in Prototypes 440
14.6.1 Machine Monitoring, Dynamic Decision and Order Adaptation 441
14.6.2 The Future Shop Floor: Mashup of Heterogeneous Service-oriented-architecture Devices and Services 444
14.6.3 Dynamic Supply Chain Management Adaptation 446
14.6.4 Taming Protocol Heterogeneity for Enterprise Services 449
14.6.5 Energy Monitoring and Control via Representational State Transfer 451
14.7 Discussion and Future Directions 454

14.8 Conclusions and Future Work 455
References 455

15 Factory of the Future: A Service-oriented System of Modular, Dynamic Reconfigurable and Collaborative Systems
A.-W. Colombo, S. Karnouskos and J.-M. Mendes 459
15.1 Introduction 460
15.2 The Emergence of Cooperating Objects 461
15.3 The Cross-layer Service-oriented-architecture-driven Shop Floor 463
15.4 Dynamic Reconfiguration of a Service-oriented-architecture-based Collaborative Shop Floor 465
15.4.1 Methodology 466
15.4.2 Example 468
15.5 Analysis Behind the Engineering Methods and Tools 469
15.5.1 Applying Functional Analysis to Validate Service Composition Paths in High-level Petri-net-based Orchestration Models 469
15.5.2 Example 472
15.6 A Service-oriented-architecture-based Collaborative Production Management and Control System Engineering Application 474
15.7 Conclusions and Future Work 479
References 480

16 A Service-oriented Shop Floor to Support Collaboration in Manufacturing Networks
J. Barata, L. Ribeiro and A.-W. Colombo 483
16.1 Introduction 483
16.2 Agility in Manufacturing 485
16.3 Collaborative Networks 487
16.4 Service-oriented-architecture as a Method to Support Agility and Collaboration 488
16.5 Architecture 493
16.5.1 The Role of Componentization 493
16.5.2 Service Exposure, Composition and Aggregation 495
16.5.3 The Role of Orchestration in Control, Monitoring and Diagnosis 496
16.6 An Implementation 498
16.6.1 Manufacturing Device Service Implementation 498
16.6.2 Coalition Leader Service Implementation 498
16.6.3 Application Example: a Collaborative Pick-and-place Operation. 499
16.7 Conclusions 501
References 501

Index 505

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Artificial Intelligence Techniques for Networked Manufacturing Enterprises Management

Enterprise networks offer a wide range of new business opportunities, especially for small and medium-sized enterprises that are usually more flexible than larger companies. In order to be successful, however, performances and expected benefits have to be carefully evaluated and balanced: enterprises must ensure they become a member of the right network for the right task and must find an efficient, flexible, and sustainable working practice. A promising approach to finding such a practice is to combine analytical methods and knowledge-based approaches, in a distributed context.

Artificial intelligence (AI) techniques have been used to refine decision-making in networked enterprise processes, integrating people, information and products across the network boundaries. *Artificial Intelligence Techniques for Networked Manufacturing Enterprises Management* addresses prominent concepts and applications of AI technologies in the management of networked manufacturing enterprises.

The aim of this book is to align latest practices, innovation and case studies with academic frameworks and theories, where AI techniques are used efficiently for networked manufacturing enterprises. More specifically, it includes the latest research results and projects at different levels addressing quick-response system, theoretical performance analysis, performance and capability demonstration. The role of emerging AI technologies in the modelling, evaluation and optimisation of networked enterprises' activities at different decision levels is also covered.

Artificial Intelligence Techniques for Networked Manufacturing Enterprises Management is a valuable guide for postgraduates and researchers in industrial engineering, computer science, automation and operations research.

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ISBN 978-1-84996-118-9

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