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Autore	BRUELL, Steven C.
Titolo	Computational algorithms for closed queueing networks / Steven C. Bruell, Gianfranco Balbo
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Collana	Operating and programming systems series ; 7
Altri autori (Persone)	BALBO, Gianfranco
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Soggetti	Teoria delle code
Collocazione	519.82 BRU
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Titolo	Advances in Production Management Systems. Initiatives for a Sustainable World : IFIP WG 5.7 International Conference, APMS 2016, Iguassu Falls, Brazil, September 3-7, 2016, Revised Selected Papers // edited by Irenilza Nääs, Oduvaldo Vendrametto, João Mendes Reis, Rodrigo Franco Gonçalves, Márcia Terra Silva, Gregor von Cieminski, Dimitris Kiritsis
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
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Disciplina	658.5
Soggetti	Computer-aided engineering Computer industry Artificial intelligence Application software Business information services Software engineering Computer-Aided Engineering (CAD, CAE) and Design The Computer Industry Artificial Intelligence Computer and Information Systems Applications IT in Business Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Computational Intelligence in Production Managements -- Determination of Operating Parameters and Performance Analysis of Computer Networks with Paraconsistent Annotated Evidential Logic E -- Abstract -- 1 Introduction -- 2 Methodology -- 3 Analysis of the Results -- 4 Conclusion -- References -- Logical Decision-Making Method Relating

to Innovation Management -- Abstract -- 1 Introduction -- 1.1 Innovation -- 1.2 Innovation Models -- 1.3 τ Logical -- 2 Methods -- 3 Application -- 3.1 Maximization (Max) and Minimization (Mini) Rules -- 3.2 Analysis -- 4 Conclusion -- References -- IT Incident Management and Analysis Using Non-classical Logics -- Abstract -- 1 Introduction -- 2 Backgrounds -- 2.1 ITIL - Information Technology Infrastructure Library -- 2.2 ISO/IEC 20.000 -- 2.3 Paraconsistent Annotated Evidential Logic E -- 3 Methodology -- 4 Analysis and Discussion -- 4.1 Comparisons with Real Data -- 5 Final Considerations -- References -- Hierarchical Clustering Based on Reports Generated by Scriptlattes -- 1 Introduction -- 2 Theoretical Background -- 2.1 Hierarchical Clustering -- 3 Proposed Method -- 4 Application: Data Extraction for Sucupira Platform -- 5 Conclusion and Future Works -- References -- Using Logic Concepts on Six Sigma -- 1 Introduction -- 2 Six Sigma -- Backgrounds -- 3 The DMAIC Method in Six Sigma -- 4 Human Errors in Six Sigma -- 5 An Expert System Based on Paraconsistent Logic -- 6 Unifying Concepts -- 7 Conclusions -- References -- Intelligent Manufacturing Systems -- A Method Towards Modelling and Analysis of Semantically-Enriched Reconfigurable Manufacturing Systems -- 1 Problem Statement -- 2 Proposed Approach -- 3 Method Conceptualization -- 4 Conclusions -- References -- Formal Information Model for Representing Production Resources -- 1 Introduction. 2 Existing Production Resource Descriptions -- 3 Proposed Production Resource Description Model -- 3.1 Abstract Resource Description -- 3.2 Resource Description -- 3.3 Resource Instance Description -- 3.4 Example Instances of Resource Description Model -- 4 Discussion and Conclusions -- References -- A Communication Procedure Between Tactical and Operational Levels in Spare Parts Supply Chains -- Abstract -- 1 Introduction -- 2 Literature Review -- 2.1 Supply Chain Management -- 2.2 Spare Parts Supply Chain -- 2.3 Integrating Intelligent Maintenance Systems and Spare Parts Supply Chain -- 3 Communication Procedure Proposal -- 4 Conclusion -- Acknowledgements -- References -- Digital Factories for Capability Modeling and Visualization -- Abstract -- 1 Introduction -- 2 System Architecture -- 2.1 Factory Digitization -- 2.2 Capability Extraction -- 2.3 Supply Chain Configuration -- 3 Manufacturing Service Ontology -- 3.1 Manufacturing Service Description Language (MSDL) -- 3.2 Capability Quantification -- 4 Digital Factory: Machine Shop Example -- 5 Conclusion -- References -- Learning Analytics Deployment at an University -- 1 Introduction -- 2 Learning Analytics -- 3 Methodology -- 3.1 Application Process of Learning Analytics -- 4 Collection and Production Data -- 4.1 Results -- 5 Conclusion -- References -- Relationship Networks: Social Innovation and Earnings for Companies -- Abstract -- 1 Introduction -- 2 Conceptual Reference -- 2.1 Interorganizational Networks -- 2.2 Social Business -- 2.3 Social Innovation -- 3 Method -- 4 Results -- 4.1 Scenario Before the Producers' Association -- 4.2 Formation of the Producers Association -- 4.3 Scenario After the Formation of the Producers Association -- 4.4 Business Models -- 5 Conclusion -- References -- Knowledge-Based PLM. Environmental Support for Dilution of Pollutants from Broiler Production and Aquaculture in Brazil -- Abstract -- 1 Introduction -- 2 Methodology -- 2.1 Emergy Environmental Accounting -- 2.2 Accounting for Environmental Services and Support Area -- 2.3 Systems Under Study -- 3 Results and Discussion -- 4 Concluding Remarks -- References -- Water Usage Charge in Brazil: Emergy Donor-Side Approach for Calculating Water Costs -- Abstract -- 1

Introduction -- 2 Materials and Methods -- 2.1 Emergency Accounting -- 2.2 Interpreting Law Terms Through the Emergency Approach -- 2.3 Calculation Considerations -- 2.4 Jundiai-Mirim Micro-Watershed -- 3 Results and Discussion -- 4 Concluding Remarks -- Acknowledgments -- References -- Combining Genetic Algorithm with Constructive and Refinement Heuristics for Solving the Capacitated Vehicle Routing Problem -- 1 Introduction -- 2 Theoretical Background -- 2.1 Capacitated Vehicle Routing Problem -- 2.2 Heuristics and Metaheuristic Techniques Employed by Proposed Approach -- 3 Methodology -- 4 Proposed Strategy for CVRP Optimization -- 5 Results and Discussion -- 6 Conclusions and Outlook -- References -- Container Crane Controller with the Use of a NeuroFuzzy Network -- Abstract -- 1 Introduction -- 2 Theoretical Bases -- 2.1 Container Crane -- 2.2 Fuzzy Logic -- 2.3 Artificial Neural Networks -- 2.4 Neuro Fuzzy Network -- 3 Materials and Methods -- 4 Results of Computational Experiments -- 5 Conclusions -- References -- Agility Challenges in Finnish Manufacturing Companies - Manufacturing Operations Management Viewpoint -- Abstract -- 1 Introduction -- 2 Research Method -- 3 Background - Enablers of Agility -- 4 Analysis of the Agility Challenges -- 4.1 Identified Challenges and Their Interconnections -- 4.2 Analysis of Critical Challenges -- 4.3 Actions for Improving Agility -- 5 Conclusions -- Acknowledgements. References -- Improving Process Management in a Water Treatment Plant Using Control Modelling -- 1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 4 Conclusions -- References -- An Integrative Model of Productivity and Logistic Objectives -- 1 Introduction -- 2 Productivity and Logistic Objectives -- 2.1 Labor Productivity -- 2.2 Logistic Objectives and the Manufacturing Control Model -- 3 Linking Capacity, Productivity and Output -- 4 Integrating Productivity into the Manufacturing Control Model -- 5 Interaction of Productivity and Logistic Objectives -- 6 Summary -- References -- Pursuit of Responsiveness in SMEs Through Dynamic Allocation of Flexible Workers: A Simulation Study -- 1 Introduction -- 2 Worker Flexibility -- 3 Case Company -- 4 Control Logics for Adaptive Decision-Making and Simulation Design -- 5 Simulation, Analysis and Results -- 6 Conclusion -- References -- Effectiveness of Production Planning and Control (PPC) in a Baby Fashion Cluster, Under the Prism of Paraconsistent Logic -- 1 Introduction -- 2 Literature Review -- 2.1 Production Planning, Programming and Control -- 2.2 Paraconsistent Logic Annotated -- 2.3 Competitive Clusters -- 2.4 Baby Fashion Cluster -- 3 Methodology -- 4 Results and Discussion -- 4.1 Planning Premises -- 4.2 Considerations on Intraorganizational Network -- 4.3 Planning Functions -- 4.4 Intersectional Factors -- 5 Conclusions -- References -- Dynamic Seed Genetic Algorithm to Solve Job Shop Scheduling Problems -- Abstract -- 1 Introduction -- 2 Proposed Methodology -- 2.1 Representation Mechanism -- 2.2 Dynamic Seed Genetic Algorithm -- 3 Experiments -- 3.1 Performance Related to the Quality of the Solution -- 4 Conclusions and Suggestions -- Acknowledgements -- An Improved Computer-Aided Process Planning Method Considering Production Scheduling -- 1 Introduction. 2 Overview of Conventional Method -- 3 Improved Integrated Method of CAPP and PS -- 4 Case Study -- 5 Conclusion -- References -- Modelling of Business and Operational Processes -- Strategic Portfolios for the Integral Design of Value-Added Networks -- 1 Importance of Portfolios for Strategic Planning -- 2 Modelling of the Value-Added Network at the Strategic Level -- 3 Portfolios for the Network Design in Different Areas -- 3.1 Production Network Design -- 3.2 Transportation Network Design -- 3.3 Distribution Network Design --

3.4 Retail Network Design -- 4 Integration of the Portfolios -- 5
Conclusions and Outlook -- References -- Selecting a Notation to
Modeling Business Process: A Systematic Literature Review of Technics
and Tools -- 1 Introduction -- 2 Literature Review -- 2.1 Mapping and
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BPM CBOOK and BABOK -- 3 Methodology -- 4 Results and Discussion
-- 5 Conclusions -- References -- Workforce Planning Models for
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Queueing Model -- 3 Performance Analysis Using Analytical Models --
4 Performance Analysis Using Simulation Model -- 5 Conclusions --
References -- From English to RDF - A Meta-Modelling Approach for
Predictive Maintenance Knowledge Base Design -- 1 Introduction -- 2
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with Using ADOxx© -- 3.1 Modelling Language -- 3.2 Mechanisms and
Algorithms -- 4 Application Scenario -- 5 Conclusions and Outlook --
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Costs -- 1 Introduction -- 2 Methodology -- 3 Case Study -- 3.1
Defining the Problem -- 3.2 Building the Model -- 3.3 Results and
Discussion -- 4 Conclusions -- References.
The Profile of High-Tech Start-Ups: An Approach by the Prism of
Graphical Analysis of Network Relations.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2016, held in Iguassu Falls, Brazil, in September 2016. The 117 revised full papers were carefully reviewed and selected from 164 submissions. They are organized in the following topical sections: computational intelligence in production management; intelligent manufacturing systems; knowledge-based PLM; modelling of business and operational processes; virtual, digital and smart factory; flexible, sustainable supply chains; large-scale supply chains; sustainable manufacturing; quality in production management; collaborative systems; innovation and collaborative networks; agrifood supply chains; production economics; lean manufacturing; cyber-physical technology deployments in smart manufacturing systems; smart manufacturing system characterization; knowledge management in production systems; service-oriented architecture for smart manufacturing systems; advances in cleaner production; sustainable production management; and operations management in engineer-to-order manufacturing. .
