

1. Record Nr.	UNINA9910254833303321
Titolo	Advances in Production Management Systems. The Path to Intelligent, Collaborative and Sustainable Manufacturing [[electronic resource]] : IFIP WG 5.7 International Conference, APMS 2017, Hamburg, Germany, September 3-7, 2017, Proceedings, Part II // edited by Hermann Lödding, Ralph Riedel, Klaus-Dieter Thoben, Gregor von Cieminski, Dimitris Kiritsis
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-66926-5
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXIII, 508 p. 122 illus.)
Collana	IFIP Advances in Information and Communication Technology, , 1868-4238 ; ; 514
Disciplina	004
Soggetti	Computer-aided engineering Computer industry Application software Artificial intelligence Information technology Business—Data processing Software engineering Computer-Aided Engineering (CAD, CAE) and Design The Computer Industry Information Systems Applications (incl. Internet) Artificial Intelligence IT in Business Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part II -- Contents -- Part I -- Supply Chain Design -- A System Maturity Model for Supply Chain Management -- Abstract -- 1 Introduction -- 2 Supply Chain Maturity Model: SCMM -- 2.1 Management View -- 2.2 Maturity Model

-- 3 Supply Chain Maturity Model with Business Management Problems
-- 4 Supply Chain Management Problems and Investment Problems on Information Technologies -- 5 Conclusion and Future Research --
References -- The Link Between Supply Chain Design Decision-Making and Supply Chain Complexity -- Abstract -- 1 Introduction -- 2
Conceptual Framework for Assessing Decision Complexity -- 2.1
Supply Chain Complexity -- 2.2 Supply Chain Change Complexity --
2.3 Complexity Framework -- 3 Method -- 4 Case Discussion -- 4.1
The Impact of Change Complexity and Supply Chain Complexity -- 4.2
Supply Chain Redesign to Reduce Complexity -- 4.3 Impact of
Decision-Making on Supply Chain Complexity -- 5 Conclusion --
References -- Reframing the Outsourcing Process -- Abstract -- 1
Introduction -- 2 Theoretical Background -- 2.1 Outsourcing of
Production -- 2.2 Four Leadership Frames -- 3 Case Study: Reframing
the Outsourcing Process -- 3.1 Research Method -- 3.2 The
Outsourcing Process -- 4 Conclusion -- Acknowledgements --
References -- A Production Transfer Risk Assessment Framework --
Abstract -- 1 Introduction -- 2 Potential Risk Factors During
Production Transfers -- 3 Case Description and Analysis -- 4
Discussion and Conclusion -- Acknowledgements -- References --
Design of Hybrid Multimodal Logistic Hub Network with Postponement
Strategy -- Abstract -- 1 Introduction -- 2 State of the Art -- 3
Problem Formulation -- 3.1 First Sub-problem: Logistic Hub Location
Problem -- 3.2 Second Sub-problem: Postponement Location Problem
-- 4 Illustrative Study -- 5 Conclusion and Research Perspectives.
References -- Collaborative Process Planning on Route Market Platform
-- 1 Introduction -- 2 Collaborative Process Planning Problem -- 3
Route Market for Collaborative Process Planning -- 3.1 How to Refine
Network Topology -- 3.2 Comment Function -- 3.3 Market Maker -- 4
Conclusions -- References -- Continuous vs Step Change Production
Process Improvement as Enablers for Product Redesign and New Market
Opportunities -- Abstract -- 1 Introduction -- 2 Theory -- 3 Method
-- 4 Results -- 4.1 Case Description -- 4.2 Findings -- 5 Discussions
and Conclusion -- References -- Cluster Competitiveness Analysis: A
Brazilian Case -- Abstract -- 1 Introduction -- 2 Literature Review --
2.1 Competitive Clusters -- 2.2 Competitiveness Factors Among
Cluster Operating Systems -- 3 Methodology -- 4 Results and
Discussion -- 5 Conclusion -- References -- Goal Programming for
Supply Chain Optimization with Insufficient Capacity -- Abstract -- 1
Introduction -- 2 Literature Review -- 3 Formulation -- 3.1 Cost
Minimization Problem (CMP) -- 3.2 Profit Maximization Problem (PMP)
-- 3.3 Multi Criteria Problem (MCP) -- 4 Illustration and Results -- 4.1
Demand and Supply Data -- 4.2 Benchmarking Results -- 5
Conclusions -- References -- Production Management in Food Supply
Chains -- Neural Network System to Forecast the Soybean Exportation
on Brazilian Port of Santos -- 1 Introduction -- 2 Methodology -- 2.1
ANN -- 2.2 Sample -- 2.3 Computacional Tool -- 3 Results and
Discussion -- 4 Conclusions and Outlook -- References -- Business
Games Based on Simulation and Decision-Making in Logistics Processes
-- Abstract -- 1 Introduction -- 2 Decision-Making in Logistics
Processes in Business Games Based on Simulation -- 3 Methodology --
4 Data Analysis -- 5 Final Remarks -- Acknowledgements --
References.
Managing Enterprise Resource System (ERP) and Balanced Scorecard
(BSC) in Food Industry in Brazil - Food and Beverage Products: A
Multiple Case Study -- Abstract -- 1 Introduction -- 2 Literature
Review -- 3 Materials and Methods -- 3.1 The Research -- 3.2 The
Case Study -- 4 Discussion of the Case Study - Results -- 5 Final

Remarks -- References -- Brazilian Corn Exports: An Analysis of Cargo Flow in Santos and Paranagua Port -- 1 Introduction -- 2 Brazilian Ports -- 2.1 Santos Port -- 2.2 Paranagua Port -- 3 Methodology -- 4 Results -- 4.1 International Traffic Considering Both Ports -- 4.2 Santos -- 4.3 Paranagua -- 5 Discussion -- 6 Conclusions and Outlook -- References -- Inventory Allocation of Perishables: Guidelines -- Abstract -- 1 Introduction -- 2 Background -- 3 Development of Guidelines -- 3.1 Allocation of Perishables Without RSLs Information -- 3.2 Allocation of Perishables with RSLs Information -- 4 Conclusions -- Acknowledgements -- References -- Challenges and Opportunities in 'Last Mile' Logistics for On-Line Food Retail -- Abstract -- 1 Introduction -- 2 The Last Mile -- 3 Logistics Challenges of Online Retail -- 4 Discussion and Conclusion -- Acknowledgements -- References -- Replenishment Planning of Fresh Meat Products: Case Study from a Danish Wholesaler -- Abstract -- 1 Introduction -- 2 Theoretical Framework -- 3 Methodology -- 4 Case Study -- 5 Analysis -- 5.1 Comparing Normal and Campaign Demand and Service Levels -- 5.2 Replenishment Planning -- 6 Discussion and Conclusion -- References -- Differentiated Demand and Supply Chain Planning of Fresh Meat Products: Linking to Animals' Lifetime -- Abstract -- 1 Introduction -- 2 Theoretical Background -- 3 Methodology -- 4 Case Study -- 5 Analysis -- 6 Discussion and Conclusion -- References -- Scheduling Fresh Food Production Networks -- Abstract -- 1 Introduction. 2 Background -- 3 Problem Description -- 4 Experimental Results -- 5 Discussion -- 6 Conclusion -- Acknowledgements -- References -- Factory Planning -- Case Studies of Participatory Design -- Abstract -- 1 Introduction and Motivation -- 2 Open Innovation -- 3 Methodological Investigation and Case Studies -- 3.1 Case Study 1: Merged Technologies to Produce Hybrid Components -- 3.2 Case Study 2: Transfer of Digitalization Knowledge -- 3.3 Case Study 3: Professional Education in Factory Planning -- 4 Comparison of the Methods -- 5 Summary -- References -- A Robust Facility Layout Planning Method Considering Temporal Efficiency -- 1 Introduction -- 2 Manufacturing System Taken into Consideration -- 3 Outline of FLP Considering Temporal Efficiency -- 4 Robust FLP Method Considering Temporal Efficiency and Routing -- 5 Numerical Example -- 6 Conclusion -- References -- Approach for the Evaluation of Production Structures -- Abstract -- 1 Introduction -- 2 Holistic Evaluation Approach -- 2.1 Basic Process Model -- 2.2 Integrated Configuration Procedure -- 3 Key Figures for Evaluation of Production Structures -- 3.1 Spatial Structure -- 3.2 Temporal Structure -- 3.3 Functional Structure -- 4 Case Study -- 4.1 Indicator-Based Check of Production Structures -- 4.2 Detailed Analysis of Production Structures -- 5 Conclusion and Outlook -- References -- An Investigation on Implemented Actions to Improve Responsiveness in Manufacturing Firms -- Abstract -- 1 Introduction -- 2 Literature Review on Core Characteristics of Reconfigurability -- 3 Exploratory Research -- 3.1 Firm 1 -- 3.2 Firm 2 -- 3.3 Firm 3 -- 4 Discussion -- 5 Conclusions -- References -- Development Projects in SMEs -- Abstract -- 1 Introduction -- 2 Theoretical Perspectives -- 3 The Projects -- 4 Enablers for Integrating Operations and Development -- 4.1 Resource Planning -- 4.2 Enabling ICT. 5 Conclusion -- Acknowledgements -- References -- Industrial and Other Services -- Resource Planning for the Installation of Industrial Product Service Systems -- Abstract -- 1 Introduction -- 2 IPSS Production and Installation Planning -- 3 IPSS Planning Tool Implementation -- 4 Pilot Case: Laser Cutting Industry -- 5

Conclusions -- Acknowledgments -- References -- Morphology of Strategic Components for Data-Driven Industrial Services -- Abstract -- 1 Introduction -- 2 Objective of Developing a Morphology -- 3 Theoretical Foundation -- 4 Methodology -- 5 Morphology of Strategic Features and Characteristics of Data-Driven Industrial Services -- 6 Conclusion and Outlook -- References -- Support to the Public Services Mutation Through Continuous Improvement in a French Metropolis -- Abstract -- 1 Introduction -- 2 SCM and Continuous Improvement for Public Services -- 3 The New Paradigm of the "Smart City" -- 4 An Integrated Approach in Toulouse Metropolis -- 5 Conclusion -- References -- Service Innovation and Performance in Mexican Service SMEs -- Abstract -- 1 Introduction -- 2 Literature Review -- 3 Methodology -- 4 Results -- 5 Discussion and Conclusions -- References -- Operations Management in Engineer-to-Order Manufacturing -- Project Execution Strategy and Planning Challenges -- Abstract -- 1 Introduction and Background -- 2 Theoretical Background -- 2.1 ETO and Project Management -- 2.2 Characteristics of an Effective Planning Approach -- 3 Methodology -- 4 Three Types of PES and Planning Challenges -- 4.1 Phase-Based Project Management -- 4.2 Challenges for Each Category -- 5 Discussion and Further Recommendations -- References -- A Three Steps Methodological Approach to Assess the Engineer-to-Order Operations Environment -- Abstract -- 1 Introduction -- 2 A Three-Steps Assessment Approach.

2.1 Assessment of Product Variety and Customization.

Sommario/riassunto

The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.
