1. Record Nr. UNINA9911047658003321

Autore	Mizuyama Hajime
Titolo	Advances in Production Management Systems. Cyber-Physical-Human Production Systems: Human-AI Collaboration and Beyond : 44th IFIP WG 5.7 International Conference, APMS 2025, Kamakura, Japan, August 31-September 4, 2025, Proceedings, Part IV / / edited by Hajime Mizuyama, Eiji Morinaga, Tomomi Nonaka, Toshiya Kaihara, Gregor von Cieminski, David Romero
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-03542-2
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (813 pages)
Collana	IFIP Advances in Information and Communication Technology, , 1868-422X ; ; 767
Altri autori (Persone)	MorinagaEiji NonakaTomomi KaiharaToshiya von CieminskiGregor RomeroDavid
Disciplina	621.39 004.6
Soggetti	Computer engineering Computer networks Computer Engineering and Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Enhancing Value Chain Resilience through Digital Technologies. -- Value Chain Resilience in Production Networks of Micro and Small Enterprises. -- Ranking Big Data Analytics Micro-Foundations for the Resilience of Agri-Food Retailers: A Multi-criteria Decision-Analysis Study. -- Serious Game to Promote Manufacturing as a Service Effect in Resilience of Supply Chain. -- Capability-Based Classification of Resilience KPIs and Research Directions. -- Measuring Agility and Resilience in Engineer-to-Order Contexts. -- How Supply Chain Can React to Internal and External Disruptions?. -- Analysis of vulnerabilities in global production networks through disruption simulation. -- Mitigating Disruptions in Agri-Food Supply Chains to

Enhance Farmer Livelihoods and Food Security. -- A Systematic Literature Review on Disruptions in Construction Supply Chain: Some Stylized rends. -- The Influence of the VUCA World on Production Systems: A Scenario-Based Analysis. -- Strategic relocations: case studies unravelling motivations and performance in outsourced reshoring decisions. -- Quantifying Forecast and E-Kanban Adaptation Fit: A Contingency-Based RBV and Differentiation System Approach. -- Mechanism Design for Production, Service and Supply Chain Management. -- Capacity-Driven Decision Model for Impact Assessment of Product Variants in Factory Systems. -- Concept of manufacturing control for a workstation with sequence-dependent setup times in a make-to-stock production. -- Optimal Strategy of Spot Sale and Presale in Dual Channel Food Supply Chain with Freshness and Carbon Emissions. -- Optimal Collection Strategy in a Dual-Channel Green Closed-Loop Supply Chain with Social Responsibility and Consumer Preferences under Government Intervention. -- Enhancements and Evaluation of Meta-Heuristic Scheduling Auction Using Genetic Algorithm. -- Matching Problems in Remanufactured Products for Product Service Systems in the Circular Economy. -- Modeling and Comparison of U.S. and Japanese Lettuce Supply Chain System Architecture. -- The Impact of Transshipment Prices on Food Waste in a Two-Location Restaurant Inventory System. -- Transformation of Many-to-One to One-to-One Matching Problems Through Replication. -- Transforming Engineer-to-Order Projects, Supply Chains, and Systems. -- Leveraging Reverse Blending for mass customization in the cosmetics industry. -- A Digital Twin Cockpit for Smart Mobile Factories in linear infrastructure construction projects. -- A Coordinated Approach to Apply Value Stream Analysis to the One-of-a-kind Shipbuilding Supply Chain. -- Synchronizing the Shipbuilding Supply Chain with Generic Cumulative Production Figures. -- Cross-Industry Insights: Comparing Engineer-to-Order (ETO) Manufacturing and Industrialized Construction Supply Chains. -- Reviewing Interoperability in Engineer-to-Order Industry. -- Challenges and Opportunities for Digital Twin Modelling and Optimization in Yard Operations. -- Analyzing the factors affecting storage space management at offshore construction yards: Insights from a single case study. -- How Contradictions Impact Practices in Supply Chain Planning in Engineer-to-order-Settings a Multi Case Study. -- Designing a Digital Twin Architecture for Resource Planning in ETO Shipyards: A Case-Informed Approach from the Norwegian Maritime Sector. -- Configuring the Configurator: Best Practices for Developing Product Configurators in Engineer-to-Order companies. -- Designing Next Generation Lean Models Supporting Social, Sustainable, and Smart Production Systems. -- Empirical Analysis of the Influence of the Takt Time of Automotive Assembly Lines on the Efficiency on These Lines. -- The Role of Operators' Learning in Enhancing Lean Benefits: Evaluation of Setup-time Reduction with SMED. -- Root Cause Analysis in Manufacturing processes: A Bayesian Network based approach. -- Key Characteristics of Luxury fashion Supply Chain and Impact on Operational Performance: A qualitative Study. -- Human-Centric Smart Factory Transformation: A Roadmap Integrating Lean, Digitalization, and Organizational Learning. -- Lean vs Green: Conflict or Convergence in Modern Manufacturing. -- Assessing the Impact of Digital Lean Manufacturing Tools on Perceived Cognitive Workload: The Case of a “Pick-to-Light” Poka-Yoke 4.0 System. -- Mapping Lean Six Sigma Practices to Environmental Gains: A Case-Based Assessment Model.

Sommario/riassunto

The six-volume set IFIP AICT 764-769 constitutes the refereed

proceedings of the 44th IFIP WG 5.7 International Conference on Advances in Production Management Systems, APMS 2025, held in Kamakura, Japan, from August 31st to September 4th, 2025. The 227 full papers presented in these proceedings were carefully reviewed and selected from 247 submissions, which cover a broad array of research and technological developments on the present and future of “Cyber-Physical-HUMAN Production Systems”. They were categorized under the following topical sections: Part I: Human-centred Work Systems for the Operator 4.0/5.0 in Manufacturing, Logistics, and Service Domains; AI-Driven Decision Support and Human-AI Collaboration for Smart and Sustainable Supply Chains; Digital Twins and AI for Dynamic Scheduling and Human-Centric Applications. Part II: Smart Manufacturing Evolution: Integrating AI and the Digital Twin for Human-centric, Circular and Collaborative Production Systems; Human-centered Service Engineering and Digital Transformation for Sustainable Service Industries; Shaping Human Capital for Industry 5.0: Skills, Knowledge and Technologies for Human-centric, Resilient, and Sustainable Manufacturing; Experiential Learning in Engineering Education; Theoretical and Practical Advances in Human-centric, Resilient, and Sustainable Supply Chain Management; Maintenance and Asset Lifecycle Management for Sustainable and Human-centered Production; Methods and Tools for Assessing the Value of Digital, Sustainable and Servitized Offerings of Manufacturing Companies. Part III: Digital Transformation Approaches in Production and Management; Digital Technologies in Manufacturing and Logistics: Exploring Digital Twin, IoT, and Additive Manufacturing; Enhancing the Value Creation Mechanisms of Manufacturing Value Chains through Digital Platforms, Circular strategies, and Servitization Principles. Part IV: Enhancing Value Chain Resilience through Digital Technologies; How Supply Chain Can React to Internal and External Disruptions?; Mechanism Design for Production, Service and Supply Chain Management; Transforming Engineer-to-Order Projects, Supply Chains, and Systems; Designing Next Generation Lean Models Supporting Social, Sustainable, and Smart Production Systems. Part V: Advancing Eco-efficient and Circular Industrial Practices; Upgrade Circular Economy for the Manufacturing Industry; Cyber-Physical System-Based Approaches to Achieve Sustainability; Industrial Data Spaces and Sustainability; Enabling Circularity in Batteries & E-Waste with Digital Technologies: From Production to Recycling; Circular and Green Manufacturing; Sustainable Product Design and Engineering. Part VI: Digital Services and Smart Product-Service Systems; Innovative Approaches and Methods for Developing Industry 4.0 and Industry 5.0 Skills; Scheduling and Production Planning in Smart Manufacturing; Supply Network Planning and Optimization; Artificial Intelligence / Machine Learning in Manufacturing; Cloud and Collaborative Technologies; Simulation of Production and Supply Chains.