

1. Record Nr.	UNINA9910886995303321
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Titolo	Advances in Production Management Systems. Production Management Systems for Volatile, Uncertain, Complex, and Ambiguous Environments : 43rd IFIP WG 5.7 International Conference, APMS 2024, Chemnitz, Germany, September 8-12, 2024, Proceedings, Part III // edited by Matthias Thürer, Ralph Riedel, Gregor von Cieminski, David Romero
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-71629-9
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (505 pages)
Collana	IFIP Advances in Information and Communication Technology, , 1868-422X ; ; 730
Altri autori (Persone)	RiedelRalph 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	-- Lean Thinking Models for Operational Excellence and Sustainability in the Industry 4.0 Era. -- How Lean tools contribute to a production system, investigation in the automotive industry. -- Integrating Multilayered Agility into Production Planning and Control: A Conceptual Model for Enhanced Manufacturing Efficiency. -- Data-Driven Root-Cause Analysis in the Scope of Continuous Improvement Projects. -- Lean and Green Manufacturing operationalization through Multi-Layer Stream Mapping in an Industry 4.0 context – Lean&Green 4.0. -- Artificial Intelligence Reshapes Supply Chain and Lean: Key Insights and Challenges. -- Inspection Planning Improvement Framework Based on the PDCA Cycle. -- Towards a Sustainable Digitalization Roadmap for SMEs. -- Enhancing Labor Flexibility in Workload Control: The Development and Application of a Framework. -- The Facets of 'Respect for People' Principle: A Systematic Review and Thematic

Analysis of the Literature. -- Analyzing the Interplay of Agile and Digital Transformation in Modern Management Theory: A Systematic Literature Review. -- Sustainable Lean Practices in the Luxury Fashion Industry: a case study. -- Pick-and-Place Robotics Implementation Under the Influence of Lean Manufacturing – A Process Model. -- Digitally-Enhanced Shu-Ha-Ri Learning Cycle for Assembly Procedures in Smart-Lean Workstations. -- Human in Command – Operator 4.0/5.0 in the Age of AI and Robotic Systems. -- What matters for managers when adopting Cobots in manufacturing organisations? - The results of a survey study in Portuguese SMEs. -- A leap from operator 4.0 to operator 5.0: Antecedents, enablers, and barriers in human-centered manufacturing. -- Research Interpretation of Article 14 of the EU AI Act: Human in Command. -- Immersive Human-Robot Collaboration in Restricted or Confined Spaces. -- Hybrid Intelligence – Decision-Making for AI-Enabled Industry 5.0. -- AI-supported Shift Scheduling - Prototype of a Human-Centered Approach. -- Fuzzy TOPSIS with Interval Data Based Possibility Measure Approach for Multi-criteria Group Decision Making: Application to Information System Selection. -- Advancing Manufacturing with Interpretable Machine Learning: LIME-Driven Insights from the SECOM Dataset. -- Designing a New Dry Port-Seaport Logistics Network with a Focus on Industry 5.0 by Machine Learning. -- A literature review on the cross-domain usage of digital factory twins within design time. -- Mechanism Design for Smart and Sustainable Supply Chains. -- Utilizing the Shapley Value to Measure Individual Productivity in the Service Industry. -- A two-stage stochastic programming approach for energy-oriented lot-sizing. -- Ensuring Fruits and Vegetables Freshness in Sustainable Agricultural Supply Chain Networks: A Deep Learning Approach. -- Planning And Optimising Value Chains In Production Networks Of MSEs: A Lightweight Planner for Parallel Processes. -- Mechanism Design as Collaborative Production Systems. -- Real traffic analysis around large-scale shopping mall using game theory. -- Partner Selection in Additive Manufacturing Networks. -- Impact of Wholesale and Retail Limits on Supply Chain Decision Strategies: Insights from Serious Gaming Experiments. -- Mechanism Design for Agricultural Machinery Sharing. -- Balancing High Social Welfare and Short Waiting Times: Determining a Reasonable Buyout Price in Auction-Based Restaurant Reservation Systems. -- Managing Handling and Transport in Furniture E-commerce Shop using the Dropshipping Model.

Sommario/riassunto

The six-volume set IFIP AICT 728-729 constitutes the refereed proceedings of the 43rd IFIP WG 5.7 International Conference on Advances in Production Management Systems, APMS 2024, held in Chemnitz, Germany, during September 8–12, 2024. The 201 full papers presented together were carefully reviewed and selected from 224 submissions. The APMS 2024 conference proceedings are organized into six volumes, covering a large spectrum of research addressing the overall topic of the conference “Production Management Systems for Volatile, Uncertain, Complex, and Ambiguous Environments”. Part I: advancing eco-efficient and circular industrial practices; barriers and challenges for transition towards circular and sustainable production processes and servitized business models; implementing the EU green deal: challenges and solutions for a sustainable supply chain; risk analysis and sustainability in an uncertain system in a digital era. Part II: smart and sustainable supply chain management in the society 5.0 era; human-centred manufacturing and logistics systems design and management for the operator 5.0; inclusive work systems design: applying technology to accommodate individual workers’ needs; evolving workforce skills and competencies for industry 5.0;

experiential learning in engineering education. Part III: lean thinking models for operational excellence and sustainability in the industry 4.0 era; human in command – operator 4.0/5.0 in the age of AI and robotic systems; hybrid intelligence – decision-making for AI-enabled industry 5.0; mechanism design for smart and sustainable supply chains. Part IV: digital transformation approaches in production and management; new horizons for intelligent manufacturing systems with IoT, AI, and digital twins. Part V: smart manufacturing assets as drivers for the twin transition towards green and digital business; engineering and managing AI for advances in asset lifecycle and maintenance management; transforming engineer-to-Order projects, supply chains, and systems in turbulent times; methods and tools to achieve the digital and sustainable servitization of manufacturing companies; open knowledge networks for smart manufacturing; applications of artificial intelligence in manufacturing; intralogistics. Part VI: modelling supply chain and production systems; resilience management in supply chains; digital twin concepts in production and services; optimization; additive manufacturing; advances in production management systems.
