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| Nota di contenuto       | Lean Management in the Industry 4.0 Era -- Enablers Identification to Support the Combined Implementation of Lean and Industry 4.0 -- Lean and Digitalization Status in Norwegian Manufacturing Companies -- Effects of Lean and Industry 4.0 Technologies on Job Satisfaction: A Case-based Analysis -- Lean Supply Chain and Industry 4.0: A Study of the Interaction between Practices and Technologies -- A Design Science -- Informed Process for Lean Warehousing Implementation -- Digitally Enhancing Kanban Lean Practice to Support Just-in-Time Reconfigurable Supply: A Case Study -- Sociotechnical Approach to Self-reporting in PMM Systems for HSE and Digital Security -- The Productivity Leap: Effects of an Industry Program in Norway -- Integrating Smart Manufacturing to Lean: A Multiple-Case Study of the |

Impact on Shop-floor Employees' Autonomy and Empowerment -- Applying the Value Stream Map to Streamline Energy Consumption: Analysis of an Italian Company -- Crossroads and Paradoxes in the Digital Lean Manufacturing World -- A Systematic Literature Review on Combinations of Industry 4.0 and Lean Production -- Lean and Digital Strategy Role in Achieving a Successful Digital Transformation -- Tying Digitalization to the Lean Mindset: A Strategic Digitalization Perspective -- Characterization of Digitally-Advanced Methods in Lean Production Systems 4.0 -- Synergies between Industry 4.0 and Lean on Triple Bottom Line Performance -- Driving Sustainability through a VSM-Indicator-based Framework: A Case in Pharma SME -- Design and Application of a Development Map for Aligning Strategy and Automation Decisions in Manufacturing SMEs -- Using the Lean Approach for Improving Eco-efficiency Performance: A Case Study for Plastic Reduction -- Work Pattern Analysis with and without Site-specific Information in a Manufacturing Line -- Digital Transformation Approaches in Production Management -- Digital Transformation towards Industry 5.0: A Systematic Literature Review -- Industry 5.0 and Manufacturing Paradigms: Craft manufacturing - A Case from Boat Manufacturing -- Industry 4.0 Readiness Assessment of Enterprises in Kazakhstan -- Critical Factors for Selecting and Integrating Digital Technologies to enable Smart Production: A Data Value Chain Perspective -- Business Process Reengineering in Agile Manufacturing -- A Mixed Method Research -- Service-Oriented Architecture for Driving Digital Transformation: Insights from a Case Study -- Application of Digital Tools, Data Analytics and Machine Learning in Internal Audit -- Consumer Engagement in the Design of PLM Systems: A Review of Best Practices -- A Distributed Ledger Technology Solution For Connecting E-Mobility Partners -- Managing Digitalization of Production Systems -- Leveraging Advanced Digital Technology Practices to Enhance Information Quality in Low-volume Product Introduction and Manufacturing -- Evaluating Augmented Reality, Deep Learning and Paper-based Assistance Systems in Industrial Manual Assembly -- Reinforcing the Closing of the Circular Economy Loop through Artificial Intelligence and Robotics -- A New Generation? A Discussion on Deep Generative Models in Supply Chains -- Business Context-based Approach for Managing the Digitalization of Biopharmaceutical Supply Chain Operational Requirements -- Volunteering Service Engineering in Non-Profit Organizations -- Workforce Evolutionary Pathways in Smart Manufacturing Systems -- The Role of Organizational Culture in the Transformation to Industry 4.0 -- A Reflective Framework for Understanding Workforce Evolutionary Pathways in Industry 5.0 -- Managing Change towards the Future of Work - Clustering Key Perspectives -- Development of a Task Model for Artificial Intelligence-based Applications for Small and Medium-sized Enterprises -- Indoor Positioning-based Occupational Exposures Mapping and Operator Well-being Assessment in Manufacturing Environment -- Next Generation Human-centered Manufacturing and Logistics Systems for the Operator 5.0 -- Human in Command in Manufacturing -- Toward a Framework for Human-Technology Cooperation in Manufacturing -- The Role of Human Factors in Zero Defect Manufacturing: A Study of Training and Workplace Culture -- Modeling Human Problem-Solving Behavior in Complex Production Systems -- Human-centric Industrial Augmented Reality: Requirements and Design Guidelines for Usability -- Investigating Human Factors Integration into DT-based Joint Production and Maintenance Scheduling -- Fostering Human-AI Collaboration with Digital Intelligent Assistance in Manufacturing SMEs -- Metaverse-based Softbot Tutors for Inclusive Industrial Workplaces: Supporting

Impaired Operators 5.0 -- Bridging the Hype Cycle of Collaborative Robot Applications -- Considering Gripper Allocations in Balancing of Human-Robot Collaborative Assembly Lines -- A Smart Work Cell to Reduce Adoption Barriers of Collaborative Robotics -- Optimizing Performance-Allocation Trade-Off: The Role of Human-Machine Interface Technology in Empowering Multi-Skilled Workers in Industry 4.0 Factories -- Towards Industry 5.0: Empowering SMEs with Blockchain-based Supplier Collaboration Network -- A Stochastic-based Model to Assess the Variability of Task Completion Times of Differently Aged and Experienced Workers Subject to Fatigue -- A Proposal for Production Scheduling Optimization Method with Worker Assignment Considering Operation Time Uncertainty -- The Impact of the Design Decisions of an Order Picking System on Human Factors Aspects of the Order Pickers -- SME 5.0: Exploring Pathways to the Next Level of Intelligent, Sustainable, and Human-Centred SMEs -- From Surviving to Thriving: Industry 5.0 at SMEs Enhancing Production Flexibility -- Challenges in Designing and Implementing Augmented Reality-based Decision Support Systems for Intralogistics: A Multiple Case Study -- Data at the Heart of the Industry of the Future: New Information Issues from an Information and Communication Sciences Perspective. .

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### Sommario/riassunto

This 4-volume set, IFIP AICT 689-692, constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2023, held in Trondheim, Norway, during September 17–21, 2023. The 213 full papers presented in these volumes were carefully reviewed and selected from a total of 224 submissions. They were organized in topical sections as follows: Part I : Lean Management in the Industry 4.0 Era; Crossroads and Paradoxes in the Digital Lean Manufacturing World; Digital Transformation Approaches in Production Management; Managing Digitalization of Production Systems; Workforce Evolutionary Pathways in Smart Manufacturing Systems; Next Generation Human-Centered Manufacturing and Logistics Systems for the Operator 5.0; and SME 5.0: Exploring Pathways to the Next Level of Intelligent, Sustainable, and Human-Centered SMEs. Part II : Digitally Enabled and Sustainable Service and Operations Management in PSS Lifecycle; Exploring Digital Servitization in Manufacturing; Everything-as-a-Service (XaaS) Business Models in the Manufacturing Industry; Digital Twin Concepts in Production and Services; Experiential Learning in Engineering Education; Lean in Healthcare; Additive Manufacturing in Operations and Supply Chain Management; and Applications of Artificial Intelligence in Manufacturing. Part III : Towards Next-Generation Production and SCM in Yard and Construction Industries; Transforming Engineer-to-Order Projects, Supply Chains and Ecosystems; Modelling Supply Chain and Production Systems; Advances in Dynamic Scheduling Technologies for Smart Manufacturing; and Smart Production Planning and Control. Part IV : Circular Manufacturing and Industrial Eco-Efficiency; Smart Manufacturing to Support Circular Economy; Product Information Management and Extended Producer Responsibility; Product and Asset Life Cycle Management for Sustainable and Resilient Manufacturing Systems; Sustainable Mass Customization in the Era of Industry 5.0; Food and Bio-Manufacturing; Battery Production Development and Management; Operations and SCM in Energy-Intensive Production for a Sustainable Future; and Resilience Management in Supply Chains.

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