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Nota di contenuto	Towards Next-Generation Production and SCM in Yard and Construction Industries -- Towards a Concept for Digitalized Yard Logistics—Outlining the Next-Generation Features -- Requirement Analysis and Concept Design of a Smart Mobile Factory for Infrastructure Projects -- Management and Emerging Technology in Maritime Logistics: A Lewin Force Field Analysis -- Streamlining the Execution of Maritime Commissioning with a Digital Assistance System -- Transforming Engineer-to-Order Projects, Supply Chains, and Ecosystems -- Challenges and Opportunities of Software-based Production Planning and Control for Engineer-to-Order Manufacturing -- Towards the Digital Factory Twin in Engineer-to-Order Industries: A Focus on Control Cabinet Manufacturing -- Has the Pendulum Swinged

Too Much from JIT o JIC in the Aftermaths of Covid-19? -- Integrating Lean, Agile, Resilient and Green Supply Chain Management in Engineer-to-Order Contexts: Insights from Expert Interviews -- Investigating On-Site Production in Construction Using Decoupling Thinking -- Clarifying the Interface between Construction Supply Chain and Site - A Key to Improved Delivery Efficiency -- Capability Building Blocks for Digital Twin Development -- Underlying Mechanisms for Planning Engineering Capacity and Load in an Engineer-to-Order Context -- Exploring Challenges in a Low-Volume Product Industrialization Process - A Railway Case Study -- Performance Management Collaboration between Companies Involved in the Industrialised Housebuilding Order Fulfilment Process -- Industry 4.0 Application in ETO Companies: An Empirical Comparison -- The Resilience of an ETO Archetype to Demand Shocks -- Modelling Supply Chain and Production Systems -- A Location-Routing Problem: Last-Mile Delivery with Drop-off Facilities for Return -- Cost Evaluation of a (Q, r, K) Inventory Model with Two Demand Classes of Lost Sales and Backorders -- Business Models for Electric Vehicle Fixed Charging Station Infrastructure with Commercial & Non-Commercial Uses -- Implementation of a Quality Cost Management Model: Case Study from the Textile Industry Sector -- Optimal Production Planning of Ice-food Under Production, Backordering and Renewal Conditions -- Sustainable and Economic Success Factors for Urban Consolidation Centres of Last-Mile Delivery in the Netherlands -- Automating Loading and Unloading for Autonomous Transport: Identifying Challenges and Requirements with a Systems Approach -- Optimal Class-based Storage System with Diagonal Movements -- Algorithms and Models for Automated Replenishment of Store Shelves – Exploratory Research -- A Simulation Optimization Approach to Inventory Optimization in Supply Chain Networks -- Design of Reconfigurable Cellular Manufacturing Systems with Alternative Routing -- Investigating the Sustainable Development of Charging Stations for Plug-in electric vehicles: A System Dynamics Approach -- Pricing Strategy of Apparel Supply Chain Considering Traceability Awareness of Consumers Driven by Blockchain -- Advances in Dynamic Scheduling Technologies for Smart Manufacturing -- Scheduling Algorithm using Path Relinking in Different Search Paths for Production Process with Crane Interference -- Buffer Sizing and Route Scheduling for Reliable Autonomous Vehicle Operations in a Dynamic Environment -- Beyond the Lab: Exploring the Socio-Technical Implications of Machine Learning in Biopharmaceutical Manufacturing -- A Constraint Programming Model for a Reconfigurable Job Shop Scheduling Problem with Machine Availability -- Prediction of Residual Dye using Machine Learning Algorithms for an Eco-friendly Dyeing Process -- Applying Multi-agent Reinforcement Learning and Graph Neural Networks to Flexible Job Shop Scheduling Problem -- Enhancing Operations Planning and Scheduling in Dynamic Production Systems by Using CLIP -- Data-driven Analysis and Assignment of Manual Assembly Production Lines -- NSGA-II for Solving a Multi-objective, Sustainable and Flexible Job Shop Scheduling Problem -- AI Vision Use Case for Digital Twin WIP Tracking in Heavy Industry -- An Improved Method of Job Shop Scheduling Considering Reworking and Reprocessing based on Proactive Approach -- Optimized Task Planning of Transfer Robots using Reinforcement Learning -- Adaptive Traffic Signal Control for a Mixed Autonomous and Traditional Vehicles by Agent-based Digital Twin Simulation -- Data Preparation for AI-Assisted Video Analysis in Manual Assembly Task: A Step Towards Industry 5.0 -- Reactive Flexible Job Shop Problem with Stress Level Consideration -- Smart Production Planning and Control -- Does

Regulating Work-In-Process Increase Throughput and Reduce Cycle Times? An Assessment by Lab Scale System Models -- Systems Thinking Approach for Production Process Optimization based on KPI Interdependencies -- Modeling of a Matrix Production System for Simulation to Predict Material Demand -- Data-driven Production Logistics: Future Scenario in Two Swedish Companies based on Discrete Event Simulation -- Setup Time Prediction using Machine Learning Algorithms: A Real-world Case Study -- Simple Analysis of Planning Quality in Production Logistics -- Planning and Control of Maritime Commissioning - Planning Concept -- Requirements Planning in the New Normal: Comparison between Reorder Point Method and DDMRP -- Towards Smart Maintenance and Integrated Production-Remanufacturing Planning -- Smart Production Planning and Control; Concept for Improving Planning Quality with Production Feedback Data -- Spare Parts Demand Prediction by using a Random Forest approach -- Artificial Intelligence of Things (AIoT) Strategies for a Smart Sustainable-Resilient Supply Chain -- PPC-Layout and Order Net – Visualization for a rapid PPC Analysis and Design -- Interfaces between the Factory Planning Process and the Quality Management for an Optimized Planning Outcome -- Production Scheduling using Production Feedback Data; An Illustrative Case Study.

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. .