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Nota di contenuto	Circular Manufacturing and Industrial Eco-efficiency -- Developing Data Models for Smart Environmental Performance Management in Production -- Optimization of Distribution Center and Supply Chain Management with Mixable Products: A Case Study of Recycling Mixable Metal Waste in South Korea -- A Stochastic Frontier Analysis (SFA)-based Method for Detecting Changes in Manufacturing Energy Efficiency by Sector and Time -- Analyzing Emerging Circular Economy Business Models in the E-waste Sector through the Business Model Canvas -- Gap Analysis for CO2 Accounting Tool by Integrating Enterprise Resource Planning System Information -- How can Digitalisation Support the Circular Economy? An Empirical Analysis from the Manufacturing Industry -- A Proposed Assessment Framework for

Circular Supply Chains Management towards Net Zero Targets in The Netherlands -- Stakeholder Management in Circular Economy Product Development in the Mining Industry – A Case Study -- Understanding the Implications of Circular Business Models for Businesses and Supply Chains -- Exploiting Information Systems for Circular Manufacturing Transition: A Guiding Tool -- Circularity Impact on Automotive Assembly – What Do We Know? -- Circular Production Equipment - Futuristic Thoughts or the Necessity of Tomorrow? -- Systematic Green Design in Production Equipment Investments: Conceptual Development and Outlook -- Towards a Circular Manufacturing Competency Model: Analysis of the State of the Art and Development of a Model -- Implications of Improving Resource Efficiency when Utilizing Residual Raw Material on Trawlers Producing Head and Gutted Fish -- Selective Complexity Determination at Cost based Alternatives to Re-Manufacture -- Towards a Green Transition: Preliminary Steps of a Quantitative Model -- Rapid Sorting of Post-Consumer Scrap Aluminium Alloys Based on Laser-Induced Breakdown Spectroscopy (LIBS) -- Understanding Sustainability: Cases from the Norwegian Maritime Industry -- Smart Manufacturing to Support Circular Economy -- Assessing the Interplay between Circular Economy, Industry 4.0 and Lean Production: A Bibliometric Review -- Adopting Circular Economy Paradigm to Waste Prevention: Investigating Waste Drivers in Vegetable Supply Chains -- Product Information Management and Extended Producer Responsibility -- Opportunities and Challenges of Applying Internet of Things for Improving Supply Chain Visibility of Incoming Goods: Results from a Pilot Study -- A Review on Design for Repair Practices and Product Information Management -- Approach on How to Handle Digital Thread Information in Manufacturing with a Human-Centric Perspective Taking into Account a Didactic Factory -- Textile Industry Circular Supply Chains and Digital Product Passports. Two Case Studies -- Product and Asset Life Cycle Management for Sustainable and Resilient Manufacturing Systems -- Green Design: Introducing a New Methodology to Increase Environmental Sustainability in Capital Investments at AstraZeneca -- Comparative Analysis of Sustainability and Resilience in Operations and Supply Chain Management: Exploring Similarities and Differences -- Capturing Value by Extending the End of Life of a Machining Department through Data Analytics: An Industrial Use Case -- The Role of Asset Ownership in PSS Theory: An Insight from Expert Interviews -- Identifying Customer Returns in PCB Production using the Mahalanobis Distance -- Sustainable Mass Customization in the Era of Industry 5.0 -- A Systematic Literature Review on the Developments in the Field of Flexible and Fully Automated Assembly Stations within the Automotive Sector -- Mixed Integer Programming for Integrated Flexible Job-Shop and Operator Scheduling in Flexible Manufacturing Systems -- Food and Bio-manufacturing -- Towards More Sustainable Food Processing: A Structured Tool for the Integration and Analysis of Sustainability Aspects of Processing Equipment -- Transforming Food Production: Smart Containers for Sustainable and Transparent Food Supply Chains -- Produce it Sustainably: Life Cycle Assessment of a Biomanufacturing Process through the Ontology Lens -- Battery Production Development and Management -- Battery Production Systems: State of the Art and Future Developments -- Assessment of the Main Criticalities in the Automotive Battery Supply Chain: A Professionals' Perspective -- Integration of Hydropower and Battery Energy Storage Systems into Manufacturing Systems - A Discrete-Event Simulation -- Operations and SCM in Energy-Intensive Production for a Sustainable Future -- A Digital Twin-based Approach to Reinforce Supply Chain Resilience:

Simulation of Semiconductor Shortages -- Integrating Closed-loop Supply Chain Design-Planning into Product Development: A Systematic Literature Review -- Life Cycle Assessment of Red Mud-based Geopolymer Production at Industrial Scale -- Product Recovery Options in Closed Loop Supply Chain Networks: A Literature Review -- Challenges and Opportunities for Adopting Green Technologies in Maritime Transportation Planning -- Digital Twin enabling Manufacturing and Energy Flexibility and Optimizing Industrial Demand Response Services -- Discrete Event Simulation for Improving the Performance of Manufacturing Systems: A Case Study for Renewable Energy Sources Production -- Analysing Barriers to Achieving SDG 7. Managing Green Product Development in the Wind Energy Sector -- Resilience Management in Supply Chains -- Derivation of the Data Attributes for Identification of Incorrect Events in Supply Chain Event Management -- Resilience Configurator for Procurement -- A Proposal of Resilient Supply Chain Network Planning Method with Supplier Selection and Inventory Levels Determination using Two-stage Stochastic Programming -- Function-based Approach for Disaster Relief Logistics.

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.
