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Nota di contenuto	Aldini Valeriani Foundation - Training dialogues with universities and business -- Managing Mass Customization -- Is Mass Customisation sustainable? A literature-based analysis -- Opportunities and Challenges of Mass Customization for Circular Economy: a literature-based analysis -- Tacking stock of prior research on the organizational capabilities for mass customization -- Unfolding the Complexity of Mass Customization: A Socio-Technical Perspective -- Is green personalisation possible? Dematerialising and deindividualising consumption -- The mass customization projects enactment in

practice: Traditional vs agile project management -- Mass Customization in Networks: A Typology of Collaboration Forms -- Digital Process Chains for the Anthropometric Individualization of Products -- Production strategy selection in the mass customization era using analytic network process -- Recommendation of Mass Customized Products with a Multi-Agent System: A Case Study -- Product configurator as a monitoring tool for environmental impact: An AEC perspective -- Adoption potentials of Metaverse Omnichannel Retailing and its impact on Mass Customization approaches -- How to consider cognitive abilities of users in toolkit design -- A Framework for Solution Space Development in Mass Customization -- Openness and open-endedness: implications for mass customization capabilities -- Customer-centric UI/UX design for sustainable software systems -- Human Centered Innovation Workplaces -- Can the Mass Customization Co-Design Toolkit Help Healthcare Practitioners Reduce Bias and Achieve Better Patient Outcomes? -- Mass Customization and Socio-Environmental Responsibility and Sustainability of the Fashion Brand and Its Supply Chain -- Exploring the Added Value of Additive Manufacturing in Sales Processes of Mass Customization Products -- Development of an Individual Incentive System to Compensate for Fluctuations in Demand based on a Cluster Analysis -- Flexibility & Reconfigurability in Manufacturing & Operations -- Qualification Management in Reconfigurable Manufacturing System: review and new definitions -- A new Dynamic Simulation-Based approach for multi-part flow line configuration of a Reconfigurable Manufacturing System -- Mixed-Integer Programming and State-of-the-Art Heuristic Approaches for the Scheduling of Modular Automotive Body-in-White Production -- Identification and analysis of interactions between re-configurable supply chain enablers in industry 4.0 using DEMATEL method -- Reconfiguration of quality gates based on part variation modes in multi-stage manufacturing systems -- Enhancing Agility and Reconfigurability in Production: A Database-Driven Infrastructure to Support Additive Manufacturing with Collaborative Robotics -- Identification of the main reconfigurability characteristics enablers with a focus on the workforce -- A Conceptual Framework for Managing Agile Ramp-up -- Role of discrete event simulation in the assessment and selection of the potential reconfigurable manufacturing solutions -- Closing the Gap: Communicating Research to Industry through the REKON Dissemination Format -- Sequential vs. integrated model of process planning, layout and scheduling optimization for RMS -- Managing industrial automation: how knowledge graphs can boost production -- Prioritizing technology-enabled production improvements in SMEs: An Interpretive Structural Model -- Mapping production capabilities: proposing support towards changeable production -- Generalization of reinforcement learning agents for production control -- The RaRe² attempt as a holistic platform for decision support in rapidly changing process chains -- New Concepts for a flexible car body shop of hang-on parts: from lightweight engineering fixture to modular flexible cell concept -- A data model for predictive supply chain risk management -- Flexibility and Changeability for Software-defined Manufacturing -- Configuration of an AVS/RS using a data-driven queueing network model -- Sustainable Operations & Circular Economy -- Challenges for textile SMEs to reach sustainability -- On the Sustainability indexing of Carbon Footprint reduction approaches for Manufacturing Industry -- Measuring environmental sustainability at logistics hubs: an international benchmark of greenhouse gas emissions -- The Integrated ESG Approach to assess sustainability: an application in the food and

beverage sector -- Industrial symbiosis network optimization model for supporting by-products reuse -- Rapid assessment of circularity practices within the manufacturing industry -- De-manufacturing analysis for product repairability and serviceability in cooking systems -- Morphological analysis on the demanufacturing operations and End of life components sustainability: Rail industry -- Sustainability of medical gowns supply chain management in the post-Covid era -- Integration of Federated Learning to Smart Grid for Efficient and Secure Energy Distribution -- Flexibility in Global Supply Chains: A Hybrid Energy Consumption Simulation Approach -- Energy System Optimization Modelling and Electrical Grid Management: the case of Italy -- Process Documentation for the Agile Development of Wind Turbines using Subject-Oriented Modeling -- Design and Management of Assembly Systems -- A Competency Framework For Assembly Operators -- Graph-based and object-oriented description model for Changeable Assembly Systems -- End-Effector-dependent Evaluation of Task Executability by Mobile Robots in Changeable Assembly Stations -- A motion capture-based approach to human work analysis for industrial assembly workstations -- Framework for formulating competence-aware scheduling models in mixed-model assembly -- The Control Architecture KaReSA: A Learning Disassembly System -- CAD-based Product Partitioning for Automated Disassembly Sequence Planning with Community Detection -- Product-Process Design & Re-design Actions -- Influence of Time-Variant Robotic Welding Processes in Car Body Construction -- A Multimodal Distribution Model of Stochastic Process Times in Resistance Spot Welding -- A regression-based method for reduced order modelling of laser welding process -- Cutting parameters optimization for CNC rotary ultrasonic grinding of a crystal glass -- A Data and Connectivity based Process Control for Grinding Brake Disc -- CAD-based hygienic design for the development of food processing systems -- Opportunities and challenges of using plywood in data-driven parametric building construction -- Prefabrication of Fully Ecological, Membrane-Free Timber Constructions through Digital Manufacturing Methods -- Increasing Efficiency of Timber Structures using Digital Fabrication Methods for Demand-Specific Cross-Section Prefabrication -- Customization of Sustainability Factors and Housing-Needs in the Construction Industry. A Status Quo Analysis of House Configurators and Requirement Survey of Generation Y and Z -- Industry 4.0 & Enabling Technologies -- Models for the cost-benefit analysis of digitalization and Industry 4.0: a systematic literature review -- Introducing the Upskilling Framework - a learning factory approved for robotics focused on knowledge transfer and creation -- Managing Manufacturing Innovation: Four Types of Problems and Matching Innovation Processes -- Digital roadmap methodology for small and medium-sized manufacturing companies -- Open Source Hardware in Manufacturing – Opportunities and Challenges -- Digital twins in machine development and self-adjusting operations -- A Maturity Assessment Model for Digital Twin-Value Stream Technology in Greenhouses -- Digital Twin preparation for the prototyping phase, a use case -- An introduction and characterisation of non-identical digital twins in manufacturing systems -- Dynamic Value Stream Mapping - How Industry 4.0 can help us to learn to see better -- Artificial Intelligence implementation strategy for industrial companies using the AI tool box – A Morphology for selecting relevant AI use cases -- AI-based recommender system for optimization of the offer management in special machine engineering -- Simulation-based improvement of production in the textile industry – A case study --

	Building Optimal Consortia in Smart Production Ecosystems -- Mutualistic networks for decentralized task allocation in human-robot teams -- Dynamic Task Allocation For Collaborative Robot Systems -- Optimizing makespan in single-model assembly lines with human-robot Collaboration -- Towards self-organized logistics planning in decentralised production systems via agent-based modelling -- Exoskeletons to support manual material handling at work: a preliminary study.
Sommario/riassunto	This book includes state-of-the-art and original research contributions from two well-established conferences, which collectively focus on the joint design, development, and management of products, advanced production systems, and business for sustainable customization and personalization. The book includes wide range of topics within these subjects, ranging from industrial success factors to original contributions within the field. The authors represent worldwide leading research institutions.