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Manufacturing Systems. -- Who Controls the Physical Internet A Review of Protocols and Algorithms. -- Design and Development of a Marketplace-based Collaborative Ecosystem for Software Integration and Distribution within Manufacturing. -- Fostering Collaborative and Interoperable Digital Models for Digital Twins Methods. -- Requirements derived from Digitalization Patterns. -- Software Testing Approach for Digital Twin Verification and Validation. -- DMFDT: Data Management Framework for Digital Twin. -- Fostering Collaborative and Interoperable Digital Models for Digital Twins: Cases. -- Contributions of Digital Twins Services to the Implementation of the Circular Economy. -- Digital Twin for Sustainable Systems Methodology Application in Water Network Management. -- Bidirectional Integration of Digital Product Passports into Information Systems of Production Planning and Control. -- Zero Defects and Zero Waste Strategies in Industrial Collaborative Networks. -- Human-Centered Solutions based on Automated Visual Inspection System. -- Integration of Artificial Intelligence in Manufacturing Companies for Achieving Zero Waste – A Systematic Literature Review. -- Smart Master Production Scheduling by Deep Reinforcement Learning An Exploratory Analysis. -- A Methodology for Designing a Decision Support System for Hyperconnected Circular Supply Chain Network Design. -- Simulation Frameworks. -- Simulation-Based Framework for Assessing Synchromodal Transportation Solutions in Low-Density Ecosystems. -- Simulation-based Learning for Agri-food Industry A Literature Review and Bibliometric Analysis. -- CitySIM Agent-Based System for Modelling and Simulating Cities as Complex Adaptive Systems for Collaborative Governance. -- Collaborative Decision Making. -- Managing Risks in Collaborative Network Organizations within Sales and Operations Planning: A Maturity Model. -- Collaborative Multi-Criteria Decision-Making Evaluation of Design Scenarios for PSS Heating Systems. -- A Proposal for Automatic Demand Forecast Model Selection. -- Value Systems for the Parallel Implementation of Value-Retention Circular Strategies in the White Goods Industry. -- Design of Collaborative Environments. -- Canvas as Tools for Digital Platform Design Analysis, Comparison & Evolution. -- A Study of the Impact of Organisational Territoriality on Collaborative Networks A Case of Project Reservation in State Grid. -- Cell Zooming in LTE-R as a Potential Game. -- Social Dimension of a Sovereign Digital Citizenship the SCOD Framework.

Sommario/riassunto

This two-volume set, IFIP AICT 726 and 727, constitutes the refereed proceedings of the 25th IFIP WG 5.5 Working Conference on Virtual Enterprise, PRO-VE 2024, held in Albi, France, during October 28–30, 2024. The 56 full papers presented in these two volumes were carefully reviewed and selected from 113 submissions. The papers presented in these two volumes are organized in the following topical sections: Part I: AI and collaboration; Human-machine collaboration; Emotions and collaborative networks; Collaborative ecosystems: Skills for resilient futures; Collaborative ecosystems: Technologies for resilient futures; Uncertainty and collaboration in supply chain; Collaborative networks as driver of innovation in organizations 5.0: Models; Collaborative networks as driver of innovation in organizations 5.0: Participation; Trust and trustworthy technologies in collaborative networks. Part II: Empowering vulnerable populations well-being through collaborative networks; Collaborative manufacturing systems in the digital era; Fostering collaborative and interoperable digital models for digital twins: Methods; Fostering collaborative and interoperable digital models for digital twins: Cases; Zero defects and zero waste strategies in industrial collaborative networks; Simulation frameworks;