

Monday, September 14 2026								
	Aula Magna	Room Fornasa	Room 2	Room 4	Room 6	Room 7	Room 8	Room Castoldi
08:00-08:30	Registration							
08:30-09:10	Opening Ceremony - Welcome							
09:10-09:50	Keynote speech Implementing Sales & Operations Planning in the Automotive Industry – Data-driven Planning Processes for Increased Operational Resilience Gregor von Cieminski							
09:50-10:20	Coffee break							
10:20-11:40		Smart and Sustainable Supply Chain: Technology, Operations, Logistics, and Governance Implications (1)	Digital Transformation Approaches in Production and Management (1)	Artificial Intelligence Adoption in Higher Education: Challenges, Opportunities, and Responsible Integration (1)	Human-Centric and Data-Driven AI: Redefining Operations and Supply Chains (1)	Industrialisation of Digital Twins: Adoption, Governance, and Value Realisation (1)	Interactive and Explainable AI for Production Planning and Scheduling (1)	Advancing Practices for Eco-efficient and Circular Industrial Systems (1)
		Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD	Chair: TBD Co-chair: TBD
		1) Effects of Soybean Supply Chain Prices on Transport Demand in Brazil (Mendes dos Reis, João Gilberto; Teixeira Machado, Sivanilza; Machado Emiliano, William; Silveira dos Santos Bardini, Vivian) 2) Exploring Freight Production and Freight Attraction for Different Brazilian Supply Chains (Mendes dos Reis, João Gilberto; da Costa Braga França, João Guilherme; de Oliveira, Leise Kelli) 3) Game Theoretic Analysis of the Food Loss Generation Mechanism in the U.S. Lettuce Supply Chain (Yamaguchi, Harufumi; Suginouchi, Shota; Mizuyama, Hajime) 4) Participatory Backcasting for Envisioning Sustainable Food Supply Chains: A Case Study of a Japanese Food Company (Sato, Mizuho; Kishita, Yusuke; Mizuyama, Hajime; Tanaka, Toshiharu)	1) Organizational Sentiment Intelligence (OSI) as an Early Warning System: A Case Study of LG Electronics Employee Feedback (Softic, Selver; Liu, Xiaoshan; Softic, Safet; Bocanet, Vlad; Gerzic, Harris; Rakic, Slavko; Marjanovic, Ugljesa; Romero, David) 2) Jurisdictional Contestation in Emergent Digital Manufacturing Domains: Top-Down DevOps Vertical Ownership as a Double Loop Learning Mechanism (Anderson, Matthew; West, Shaun; Larsson, Tobias) 3) A Conceptual Framework for Integrating Digital Voice of the Customer into FMEA and 8D through Industrial Data Spaces (Andrushchenko, Elena; Efe, Dogan; Jochem, Roland) 4) AI-Driven Forecasting of Volatile Ice-Food Demand for Optimized Cold Chain Management (Guinoubi, Syrine; Chakroun, Ayoub; Hani, Yasmina; El Mhamed, Abderrahmane)	1) When Avatars Debate: Design and Evaluation of an LLM-Based Debate Platform for Educational Applications (Cvitković, Antonio; Batistić, Luka; Maffei, Antonio; Ljubić, Sandi) 2) Designing a Universal Student Passport for Responsible AI-Driven Personalised Learning in Engineering Higher Education (Zammit, Joseph; Bondin, Andrea; Francalanza, Emmanuel; Maffei, Antonio; Sala, Roberto; Pirola, Fabiana; Pezzotta, Giuditta; Ljubić, Sandi; Batistic, Luka; Podržaj, Primož; Reznichenko, Igor; Priarone, Paolo. C; Antonelli, Dario) 3) Mapping the Policy Landscape of AI in Higher Education: A Multi-Level Analysis Across European Institutions (Zammit, Joseph; Grech, Victoria; Francalanza, Emmanuel; Maffei, Antonio; Sala, Roberto; Pirola, Fabiana; Pezzotta, Giuditta; Ljubić, Sandi; Batistic, Luka; Podržaj, Primož; Reznichenko, Igor; Priarone, Paolo, C; Antonelli, Dario; Paško, Lukasz; Olech, Marcin) 4) Game-Based Learning for Sustainability Education in Engineering: A Systematic Literature Review (Balsrud-Hauge, Jannicke; Cocca, Paola)	1) Risk-Aware Order Acceptance and Scheduling with Supply Reliability Considerations (Gianassi, Mattia; Leoni, Leonardo; Cantini, Alessandra; Tucci, Mario; De Carlo, Filippo) 2) A trade-off analysis between uncertainty representation and usability in fuzzy MCDM: evaluating performance variations across IVIF-AHP, IVPF-AHP and PR-FAHP (De Cassan, Flavia; Cantini, Alessandra; Leoni, Leonardo; De Carlo, Filippo; Tucci, Mario) 3) A Taxonomy of Human-AI Interaction Patterns in Agent-Based Operations Management (Introna, Vito; Santolamazza, Annalisa) 4) AMR-based warehousing systems: Analysis of energy, environmental and economic performance of Robotic Compact Storage Systems (Perotti, Sara; Cannava, Luca; Conti, Emma)	1) Industrialising Digital Twins: Governance of Data, Metadata, and AI in Production System Ecosystems (West, Shaun; Stoll, Oliver; Alves, Kyle; Anderson, Matthew; Rodel, Eugen; Züst, Simon) 2) Data Governance and Management Principles for Data Space-Enabled Digital Twin Ecosystems (Chaves, Ana Carolina; Alonso, Ana Nunes; Soares, António Lucas) 3) Toward Quantifying Data Usage Of Machine Data (Albers, Alexander; Kober, Christian; Netland, Torbjørn) 4) Operational objectives and value creation mechanisms of Digital Twins in manufacturing (Mendonça dos Santos, Douglas; Ayala, Néstor Fabián)	1) Multi-Objective Deep Reinforcement Learning for Automated Storage and Retrieval Systems Control (Ferrari, Andrea; Mangano, Giulio) 2) Heterogeneous Graph Transformer-based Deep Reinforcement Learning for Integrated Steel Stockyard Scheduling in a Shipyard (Choi, Won Seok; Cho, Young In; Yoon, Hee Chang; Bae, Seong You; Woo, Jong Hoon) 3) A Systematic Study of Search Algorithms for Planar Storage Retrieval under Operational Constraints (Han, Yeongchan; Han, Seung Woo; Woo, Jong Hun) 4) Multi-Agent Reinforcement Learning Algorithm for Routing Optimization in Modular Conveyor Systems (Andolfi, Daniele; Callegaro, Giovanni Antonio Haakon; Matta, Andrea; Tappia, Elena)	1) Information Requirements for Eco-Efficient Manufacturing (Despeisse, Mélanie; Fang, Qi; Barrera Diaz, Carlos Alberto; Gandhi, Kanika; Moestam, Lena) 2) From End-of-Life to Decision Pathways: Deep Reinforcement Learning for Circular PV Management (Bahramimianrood, Bahador; Abdoli, Shiva) 3) Hybrid Simulation for Evaluating the Environmental Loads of an Upcycle Mobility Service (Yamamoto, Masahiro; Takayanagi, Soshi; Fukushima, Shinichi) 4) Efficient Prototyping in Sheet Metal Forming Through Simulation and Polymer Additive Tooling (Taschbach, Yannick; Keuper, Alexander; Schuh, Günther)
11:40-11:50	Short coffee break							
11:50-13:10		Smart and Sustainable Supply Chain: Technology, Operations, Logistics, and Governance Implications (2)	Digital Transformation Approaches in Production and Management (2)	Artificial Intelligence Adoption in Higher Education: Challenges, Opportunities, and Responsible Integration (2)	Human-Centric and Data-Driven AI: Redefining Operations and Supply Chains (2)	Industrialisation of Digital Twins: Adoption, Governance, and Value Realisation (2)	Interactive and Explainable AI for Production Planning and Scheduling (2)	Advancing Practices for Eco-efficient and Circular Industrial Systems (2)
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		1) Urban logistics in the 15-Minute City: A Systematic Review and Research Agenda (Lagorio, Alexandra; Piffari, Claudia; Paris, Mario; Cimini, Chiara) 2) Automatic Simulation Model Generation in the Context of Finished Vehicle Logistics on Automotive Terminals (Hoff-Hoffmeyer-Zlotnik, Marit; Schukraft, Susanne; Görges, Michael; Caballero, Ricardo; Freitag, Michael) 3) Examining the role of Industry 5.0 in enhancing competitiveness: A comparative analysis of transport systems. (Christiansen, Atle M.; Steger-Jensen, Kenn; Vidskjold, Kenneth) 4) Adoption of Battery Electric Trucks: a Review on transport companies’ perspectives (Capolli, Matteo; Creazza, Alessandro; Evangelista, Pietro; Colicchia, Claudia)	1) Minding the Gap: Limitations of Existing Automation Potential Analysis Frameworks (Nwagwu, Chibuikem C; Micheltree, Christina M; Harik, El Houssein C) 2) A data readiness assessment approach in a manufacturing industry (Santo, Paolla Polla Pontes do Espírito; Ayala, Néstor Fabián) 3) Modernizing MES: A Pilot Study on e-Quality Integration for Enhanced Operational Performance (Degirmenci, Firdevs Senem; Gaiardelli, Paolo; Powell, Daryl) 4) From Data Quality Deficiencies to Production Inefficiency: Data Quality as a Bottleneck for AI-Based PPC (Jordan, Johannes; Antons, Oliver; Arlinghaus, Julia)	1) A Serious Game for AI Integration in Production Systems (Matteri, Davide; Corti, Donatella; Bettoni, Andrea) 2) AI-Enhanced Serious Games in Production Management: A Systematic Literature Review (Lombardi, Dario; Traetta, Luigi; Ferreira, Pedro; Maffei, Antonio) 3) Where Can Generative AI Help Educators? A Structured Analysis of AI Support in Course Design (Maffei, Antonio; Bragazzi, Nicola Luigi; Romero, David; Mo, Fan; Yang, Bo; de Giorgio, Andrea) 4) Integrating Sustainability into Assembly Technology Education: A Course Redesign Approach Based on Constructive Alignment (de Giorgio, Andrea; Bragazzi, Nicola Luigi; Mo, Fan; Yang, Bo; Maffei, Antonio)	1) Inclusion of workers with functional diversity in Human-Robot Collaboration: a systematic mapping review (Mancusi, Francesco; Piffari, Claudia; Lagorio, Alexandra; Cimini, Chiara; Fruggiero, Fabio) 2) Agentic AI as a cognitive support tool for Operator 5.0 (Fast Berglund, Åsa) 3) A Readiness Assessment Model for Human-Robot Collaboration in the context of Industry 5.0 (Braggio, Mattia; Arena, Simone; Briatore, Federico; Orrù, Pier Francesco; Pinzone, Marta) 4) Human-Centered evolution of recommender systems: from collaborative filtering to responsible AI (Quadras, Djonathan; Schweitzer de Souza, Nicollas Luiz; Bandinelli, Romeo; Morosini Frazzon, Enzo)	1) Evaluating the Robustness of Production Planning and Control Procedures (Mundt, Christopher; Lødding, Hermann) 2) A Cost-Benefit Framework for Assessing Digital Twin Value in Manufacturing: Development and Industrial Evaluation (Kober, Christian) 3) AI-Augmented Digital Twins in Large Industrial Companies: From Use Cases to Industrialisation (Sanchez de Ocaña, Adrian; Bruch, Jessica) 4) What is Industrial Metaverse? A Systematic Litera-ture Review-Based Synthesis of Existing Definitions (Raza, Mohsin; Madsen, Ole; Schou, Casper; Acev, David; Berger, Ulrich)	1) An Integrated AI-driven Production Planning Framework for Resource-Constrained Spatio-Temporal Scheduling in Shipyard Block Assembly (Baek, Jiwon; Cho, Youngin; Yoon, Heechang; Choi, Wonseok; Yoo, Yejin; Sung, Saenal; Lee, Dongha; Woo, Jong Hun) 2) Job Shop Scheduling Revisited under RL-Guided Constraint Programming (Ktenidis, Andreas; Lagos, Angelos Ioannis; Mourtos, Ioannis; Syttilidou, Alkistis; Zois, Georgios) 3) Multi-Agent Optimal Communication Decision Making Leveraging Finite Markov Decision Process (Rehman, ATIF ur; Matta, Andrea; Cascini, Gaetano; Rossi, Monica) 4) Orbital Vehicle Routing Problem for LEO Constellation Refueling (Jeong, Joonhwa; Lee, Seokcheon; Moon, Ilkyeong)	1) Decision-Support Approaches for Industrial Symbiosis: A Systematic Literature Review (Boscarato, Alessia; Acerbi, Federica; Terzi, Sergio) 2) Understanding Industrial Symbiosis through Simulation: A Review of Modeling Approaches and Future Directions (Piffari, Claudia; Colombo, Beatrice; Lagorio, Alexandra; Gaiardelli, Paolo) 3) Smart Circular Economy Implementation in Manufacturing: Identifying Barriers and Enablers (Nagendra, Nithin; Chirumalla, Koteshwar; Al-Dulaimy, Auday; Öhrwall Rönnbäck, Anna) 4) Advancing Circular Strategies for Rare Earth Elements: a Bibliometric Analysis (Costa, Federica; Napoleone, Alessia; Despeisse, Mélanie)
13:10-14:30	Lunch							
14:30-15:10	Keynote speech Toward Absolute Sustainability in Production Systems Daniela Pigosso							
		Enhancing sustainable resilience in food manufacturing value chains through data-driven strategies, systems thinking, and transition approaches	Digital Transformation Approaches in Production and Management (3)		Human-Centric and Data-Driven AI: Redefining Operations and Supply Chains (3)	Industrialisation of Digital Twins: Adoption, Governance, and Value Realisation (3)	Designing, Engineering, and Managing Truly Human-Centred Industrial Systems for the Operator 4.0/5.0	Advancing Practices for Eco-efficient and Circular Industrial Systems (3)
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		Servitization for Sustainable Manufacturing: Enablers, Constraints, Assessment Tools, and Business Model Configurations for Digitalized Systems (2)	AI, Institutions, and Organizational Transformation in Production Systems: Toward Human-Centric Industry 5.0 (2)		Agentic AI in Operations and Supply Chain Networks: From Tools to Orchestrators (1)	Jobs, Skills and Workforce Development for Sustainable, Resilient, and Human-Centric Industrial Systems (1)	Human-centric lifecycle management of products and assets (2)	Smart Manufacturing for Circularity and Resilience: Models, Methods, and Industrial Evidence (2)
		<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>		<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>
10:20-11:40		1) Decision-making within a Leasing Business Model: Enabling Refurbishment of Products at the End-of-Lease Under Stochastics Condition (Kordestani, Sepideh; <u>Backstrand, Jenny</u>; Siva, Vanajah) 2) Waste Management in the Cosmetics Industry: A Lifecycle-based Analysis (<u>El Warraghi, Laila</u>; Rocca, Roberto; Fumagalli, Luca) 3) Designing Sustainable Business Models for Testbeds in Industry 4.0: An Empirical 5G Testbed Study (Gonçalves, Pedro; <u>Correia Simões, Ana</u>; Senna, Pedro; Parreira, Bruno) 4) Integrating Artificial Intelligence and Human Resource Management Practices to support Knowledge Management Processes (<u>Marinucci, Mariavittoria</u>; Sala, Roberto; Pirola, Fabiana; Cavalieri, Sergio)	1) Shifting skill sets for engineers through increased use of artificial intelligence in product development (<u>Balder, Juliane</u>; Ebel, Helena; Buric, Marco; Stark, Rainer) 2) Empowering the Manufacturing Workforce to Integrate AI Coding Assistants (<u>Leberruyer, Nicolas</u>; Ahlskog, Mats; Bruch, Jessica; Backhans, Erik) 3) Development of the Mine 5.0 model for human-centric, sustainable and resilient surface coal mining operations (Simeunović, Vladimir; <u>Dimitrijević, Sonja</u>; Stošić, Dragan; Majstorović, Vidosav) 4) Beyond Textual Accuracy: Evaluating RAG-based Assistant for Novice Operators in Industrial Robotics (<u>Botticella, Enrico</u>; Wu, Zhengyi; Aliev, Khurshid; Bruno, Giulia)	Workshop on Industrial engagement	1) Toward Self-Organizing Production Logistics: A Multi-Agent Approach (<u>Klein, Jan-Felix</u>; Jeong, Yongkuk; Flores-García, Erik; Wiktorsson, Magnus) 2) Agentic Artificial Intelligence in Supply Chain Management: A Systematic Literature Review (<u>Quadras, Dionathan</u>; Bandinelli, Romeo; Fani, Virginia) 3) From model assessment to process fit: designing benchmark dimensions for LLMs in business contexts (<u>Pinto, Roberto</u>; Alfnes, Erlend; Bandinelli, Romeo; Zenezini, Giovanni) 4) From AI Agents to Agentic Applications: An Architectural Case Study in Inventory Management (<u>Kilpua, Janne</u>; Khajavi, Siavash; Laakso, Sampsa; Tanskanen, Kari)	1) Unlocking Hidden Expertise: How AI Transforms Tacit Knowledge into Competitive Advantage (<u>Tjaden, Greta</u>; Gutöhrlein, Tabea; Höschele, Daniel) 2) Shaping Social Sustainability in Adaptive Manufacturing Systems: a participatory co-design approach for indicators generation (<u>Zarrilli, Daniela</u>; Rossi, Monica) 3) Empowering the Operator 5.0: LLM-Augmented Task-to-Skills Mapping for Human-Centric Workforce Assignment in SMEs (<u>Cutrona, Vincenzo</u>; Montini, Elias; Emmanouilidis, Christos; Bettoni, Andrea) 4) Leveraging Human Capital through Operational Excel-lence in High-End Operations (Ferrazzi, Matteo; <u>Costa, Federica</u>; Portioli-Staudacher, Alberto)	1) A Material- and Tool State-Aware Dynamic Power Estimation Model for Milling Processes (<u>Lee, Ga Hyun</u>; Song, Byunghun; Jeon, Hyun Woo) 2) Profiling Difficulty and Interpretability in Industrial AI Fault Diagnostics (Alsanousi, Mowffq; Huang, Po-Chien; <u>Prabhu, Vittaldas</u>) (Alsanousi, Mowffq; Huang, Po-Chien; <u>Prabhu, Vittaldas</u>) 3) FlowExtract: Procedural Knowledge Extraction from Maintenance Flowcharts (Gil de <u>Avallé, Guillermo</u>; Maruster, Laura; Sloot, Eric; Emmanouilidis, Christos) 4) Human-in-the-Loop Condition-Based Maintenance Framework for Collaborative Robots: Integrating Diagnostic Uncertainty, Human Feedback, and Economic Evaluation (Tonelli, Cristina; Silvia, Scarpa; <u>Polenghi, Adalberto</u>; Mor, Andrea)	1) Identification and Characterisation of Archetypes for Decentralized Manufacturing Systems (<u>Aggrey, Oheneba</u>; Yazdi, Poorya Ghafoorpoor; Chemweno, Peter; Thiede, Sebastian) 2) Framework for Industrial Resilience (Case from the AgriTech industry - <u>Henriksen, Bjørnar</u>; Kolberg Thomassen, Maria; Røstad, Carl Christian; Buer, Sven Vegard) 3) Creating a Future Vision for sustainable Value Creation by manufacturing SMEs in regional Value Networks (<u>Wiesner, Stefan</u>; Zitnikov, Anton; Ender, Justin; Kalverkamp, Matthias; Ahlheim, Tim; Holten, Tobias) 4) Risk Analysis for Proactive Resilience Management in Manufacturing Companies (<u>Reinhold, Jonas</u>; Burzynska, Björn; Schmidt, Matthias)
11:40-11:50	Short coffee break							
		Servitization for Sustainable Manufacturing: Enablers, Constraints, Assessment Tools, and Business Model Configurations for Digitalized Systems (3)	AI, Institutions, and Organizational Transformation in Production Systems: Toward Human-Centric Industry 5.0 (3)	Emotional monitoring in operations and logistics to enhance workers' well-being	Agentic AI in Operations and Supply Chain Networks: From Tools to Orchestrators (2)	Jobs, Skills and Workforce Development for Sustainable, Resilient, and Human-Centric Industrial Systems (2)	AI and Computer Vision for Smart Manufacturing and Quality Engineering	Sustainable Manufacturing and Circular Production Systems
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11:50-13:10		1) Development and Validation of a Roadmapping methodology for servitization (<u>Chisari, Alessandra</u>; Beducci, Elena; De Carolis, Anna; Taisch, Marco) 2) Mapping the Maturity of Servitization and PSS Research: Evidence from an International Scientific Panel (Lussignoli, Luca; <u>Saccani, Nicola</u>; Adrodegari, Federico; Baines, Tim; Corti, Donatella; Gebauer, Heiko; Kowalkowski, Christian; Marjanovic, Ugljesa; Meierhofer, Jürg; Parida, Vinit; Pigosso, Daniela; Watanabe, Kentaro; West, Shaun; Opazo basaez, Marco guillermo; Pezzotta, Giuditta; Rapacini, Mario) 3) Artificial Intelligence for after-sales services: a case of luxury fashion industry (<u>Roskladka, Natalia</u>; Miragliotta, Giovanni)	1) From Regulation to Innovation: The EU Data Act and its Impact on OEM Product Development (<u>Tjaden, Greta</u>; Muschik, Sabine) 2) Manufacturing SMEs' ethical maturity for AI adoption (<u>Gładysz, Bartłomiej</u>; Juma, Hassan; Buczacki, Aleksander; Kluczek, Aldona; Ejsmont, Krzysztof; Krystosiak, Krzysztof; Kossobudzka-Górska, Aneta; Małeńczyk, Izabela; Kozłowski, Jacek) 3) What Remains of XAI in Practice? Comparing Literature Based Methods and Operational Explainability (<u>Geliev, Anna</u>; Rieder, Jonas S.I.; Aschenbrenner, Doris; Gries, Thomas)	1) Exploring the propensity of adoption of physiological emotional monitoring technologies in logistics via TAM (<u>Mangano, Giulio</u>; Castiblanco Jimenez, Ivonne Angelica; Olivetti, Elena Carlotta; Moos, Sandro; Vezzetti, Enrico; Rafele, Carlo; Ferrari, Andrea; Marcolin, Federica) 2) Design of a Sensorized Safety Helmet for Stress and Cognitive Workload for Automated Warehouses Operators (<u>Olivetti, Elena Carlotta</u>; Ferrari, Andrea; Mangano, Giulio; Zenezini, Giovanni; Vezzetti, Enrico; Rafele, Carlo; Celeghin, Alessia; Moos, Sandro; Marcolin, Federica) 3) Mental Workload Evaluation in Real-World Manufacturing Systems in the Industry 5.0 Era (<u>La Mattina, Cinzia</u>; Picariello, Francesco; Pilati, Francesco)	1) Implementing a semantic data layer in recycling industry towards agentic AI (<u>Fast Berglund, Åsa</u>; Christiansen, Andreas) 2) From Thinking to Doing: Moving from AI Use Cases to a Process Wide Adoption Approach in Sourcing (<u>Backstrand, Jenny</u>; Malmstedt, Andréas) 3) Governed Decision-Support Artifact for Cross-Functional Manufacturing Decisions (<u>Yang, Zhichao</u>; Kolla, Sri; Thiede, Sebastian)	1) Designing a Learning Activity for FMECA Methodology in a Learning Factory: Comparison between Traditional and Innovative Teaching (<u>Rigamonti, Nicole</u>; Galimberti, Mattia; Sala, Roberto) 2) Mapping Learning Factories' offerings through the lens of Human-Centric Manufacturing (<u>Cimini, Chiara</u>; Piffari, Claudia; Lagorio, Alexandra; Pinto, Roberto) 3) DR-BEST for Circularity: A Service-Oriented Reference Framework to Foster the Twin Transition in European Learning Factories (Pinzone, Marta; <u>Pachimuthu, Danusuya</u>; Acerbi, Federica) 4) Human-centered digital transformation – an exploratory study (<u>Zouaoui, Salma</u>; Filipas, Ioana; Marmier, François; Renaud, Dominique)	1) Stereo-Vision-Based Part Classification for Brownfield Assembly Using a Low-Cost Camera (<u>Birk, Max-Heiner</u>; Gaus, Andreas; Reich, Christoph; Engler, Michael) 2) KBES for DfM and DfS of CNC Milled Parts: Requirements Analysis and Technology Blueprint (<u>Kremer, Gerald</u>; Königs, Michael; Stark, Rainer) 3) YOLO-based Object Detection with Oriented Bounding Boxes for Assembly Line Automation of Tabletop Games (Gerchel, Ann-Christine; Kerber, Florian; <u>Lenz, Jürgen</u>; Halbauer, Marcel) 4) Border Detection and Subspace Optimization for Oversampling Imbalanced Quality Data (<u>Kumbhar, Mahesh</u>; Bandaru, Sunith; Karlsson, Alexander)	1) Competence-based procedure selection for lead time scheduling addressing remanufacturing-specific challenges: a multi-criteria decision framework (<u>Schulz, Jonah</u>; Rokoss, Alexander; Stamer, Florian) 2) PDCA-Based Raw Material Management for Sustainable Production Systems (<u>Dusdal, Markus</u>; Bulliqi, Dafina; Haag, Christoph) 3) A Comprehensive Review of Occupational Health and Safety Risk Assessment in Mining: From Classical Methods to AI-Driven Models (<u>Biadi, Wafaa</u>; El bouzekri El idrissi, Adiba; Assif, Safaa; Hani, Yasmina)
13:10-14:10	Lunch							
		Smart Manufacturing Ontologies & Data Interoperability	Cyber-Physical System-Based Approaches to Achieve Sustainability	Decision Support and Resilient Supply Networks		Bridging the Implementation Gap of Management Frameworks: From Theory to Industrial Practice	Human-centric lifecycle management of products and assets (3)	Optimization Methods for Logistics and Transportation Systems
		<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>		<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>	<i>Chair: TBD</i> <i>Co-chair: TBD</i>

14:10-15:30		1) Automatic Generation of AAS via Contrastive Learning Based on an Extended Hierarchical Structure of Semantic Similarity (Jo, YeRang; Lee, JuYeon) 2) An Overview of Supply Chain Ontologies (Mai, Yen; Riedel, Ralph; Martin, Michael; Tiwari, Sanju) 3) An Executable UAV Simulation Model Generation Framework based on Ontology and LLMs (Huang, Shizhen; Xu, Qiu hao; Jiang, Junxiang; Song, Zelong; Zheng, Xiaochen) 4) An Ontology-Enhanced Multi-Agent Hierarchical Method for Design Requirement Extraction of Complex Products (Tan, Yifan; Xu, Qiu hao; Song, Zelong; Jiang, Junxiang; Zheng, Xiaochen)	1) Wear- and Time-Aware Pricing with Equity Guardrails for IoT-Tracked Shared Tools (Ahmed, Waqas; Sundberg, Hans-Åke; Shorten, Robert) 2) Adapting the Five-Dimensional Digital Twin Model for On-Demand and Reconfigurable Continuous Flow Chemistry: An Ontological Approach (Dib, Inès; da Cunha, Catherine; Felpin, François-Xavier) 3) Deep Learning for Building Maintenance Optimization (Fang, Hongtao; Abdoli, Shiva) 4) Simulation of Circular Product Management Based on a Blockchain Platform (Hirata, Sogo; Izumida, Yuto; Fukushige, Shinichi)	1) Reinforcement Learning-Based Automated Negotiation Model for Sellers Under Varying Inventory Levels (Jeong, Jin Goo; Lee, Ga Hyun; Song, Byunghun; Jeon, Hyun Woo) 2) Supply Chain Resilience Under Competing Geopolitical Frameworks: The Capricorn Bioceanic Corridor and Critical Raw Materials Access for the EU Green Transition (Kalverkamp, Matthias; Baalsrud-Hauge, Jannicke) 3) A Nearshoring Decision-Support Framework for supplier-location selection (Montella, Luisa; Murino, Teresa; Somma, Andrea)		1) Designing a Process-Oriented Performance Measurement System for R&D Activities in Manufacturing SME (Inan, Guven Gurkan; Akbulut, Derya; Marques-McEwan, Melissa; Ocak, Bahtiyar) 2) How Much Context is Enough? Mapping Production Planning Environments for Comparable Case Studies in Tactical Production Planning (Romsdal, Anita; Rahmani, Mina; Strandhagen, Jan Ola) 3) A Requirements-Based Extension of Earned Value Management for Engineering Project Control (Ottaviani, Filippo Maria; Zenezini, Giovanni; Rebuglio, Massimo; Moroni, Francesco; Romagnoli, Giovanni; Zammori, Francesco) 4) An exploratory analysis on the use of Earned Value Management in project-based Italian organisations (Nicolosi, Davide Primo; Ottaviani, Filippo Maria; Romagnoli, Giovanni; Zammori, Francesco; Zenezini, Giovanni)	1) Human-Centric Phased Deployment of Auditable Warranty and After-Sales Workflows: An AHP-Based Portfolio Method for Product and Asset Lifecycle Management (González-Prida, Vicente; Picado, Bernal; Guillén, Antonio; Crespo Márquez, Adolfo) 2) Industrial Metaverse: a Platform for Human Engagement in Production System Design (Polenghi, Adalberto; Pasquandrea, Marco; Elashry, Mahmoud Samy Rezk; Palmitessa, Edoardo; Mengestu, Tesfalem Mekonen; Alamnie, Tidar Dessie; Ahmed, Umair; Taisch, Marco) 3) Developing a data-driven maintenance service: a digital platform enabled Asset Management approach based on TBO optimization (Ghedini, Lorenzo; Roda, Irene; Macchi, Marco; Martinez, Alejandro; Pozzetti, Alessandro) 4) Service can improve environmental impact of heat pump: life cycle assessment as a design decision tool (Fabrer, Claire; Alix, Thécle; Mora, Laurent; Perry, Nicolas)	1) Logistic Operating Curves for Closed Queueing Systems: Enhancing Container Terminal Productivity through Shared Queues (Möhle, Florian; Jahn, Carlos; Lödding, Hermann) 2) Empty Packaging Pooling in Logistics: A MILP Formulation and Matheuristic for Tariff-Based Transport Planning (Boulaouinat, Kaouther; Hnaien, Faïcel; Sahin, Evren; André, Joan; Petitti, Riccardo) 3) Routing-Aware Truck Consolidation through Hybrid Machine Learning and Multi-Criteria Decision-Making (Benadder, Abderrahmane; Mezzetti, Nicola; Battini, Daria) 4) Stochastic Half-Open Multi-Depot Electric Vehicle Routing Problem with Charging Options: A Two-Stage Optimization–Simulation Approach (Erdes, Hakan; Kesen, Saadettin Erhan)
15:30-16:30	Closing ceremony							