



Patras, Greece

35th CIRP Design 2025

Reshaping Design towards Adaptive, Human Centric and Sustainable, Products, Processes, and Systems

April 2-4,
2025

Wednesday 02/04/2025

Session CHAIRS

Paper Slot 1
11:00– 13:00

Session 1 Eco-Dn	Auditorium (I-4)	Dimitris Mourtzis - OK
24-00839	Towards a framework for automatic disassembly supporting circular economy	Simon Merschak (AUSTRIA)
24-00978	Concept for Product Architecture Evolution Planning in the context of the Circular Economy	Timm Schulz-Ißenbeck (GERMANY)
24-01003	"Eco-Efficiency – Environmental Indicators for Service Systems"	Isger Glauningner
24-01004	Development of a Requirement-Oriented Design Approach for Integrating Wood into Vehicle Components	David Schmidt (GERMANY)
24-01006	Trade-offs in the collaborative design of a B2B eco-label for the European railway sector	Célia Marie Ramany Cannappah (NETHERLANDS)
24-01090	Integrating Circular Economy Practices in Aviation: Requirements Analysis for the Exchange of Material and Product Information to improve Circularity in the Aviation Industry	Malina Wiesner (GERMANY)

Session 2 HMI-AI	Room 1 (I-10)	George Kribas - OK
24-00628	Robotic Process Automation and Employee Outcomes: A Quantitative Study of Role Changes, Work-Life Balance, and Job Opportunity	Pittawat Ueasangkomsate (THAILAND)
24-01005	Optimizing Manufacturing Efficiency using human-centered design and AI	Teresa Isabel Gonçalves (PORTUGAL)
24-01019	The influence of AI support on product development results: A Live-Lab case study of a top-heat grill	Katharina Ritzer (GERMANY)
24-01020	An Approach for the Development of an Adaptable and Human-Centered Rework System	Sarah Zimmer (GERMANY)
24-01029	The Inhumanity of the Human Factor – A Scoping Study of the Language in Cobot Introduction Methodologies in Manufacturing	Elisabeth Agerbaek (DENMARK)
24-01573	Investigating machine learning approaches for hand pose estimation and ergonomic risk assessment	Marianna Ciccarelli (ITALY)

Session 3 AI-BIG-DA	Room 2 (I-12)	Haluk Akay - OK
24-00990	Application of artificial intelligence in model-based systems engineering of automated production systems	Ralf Stetter (GERMANY)
24-01021	Developing quality indices for the management of product structure data across product life cycles	Amar Kumar Behera (INDIA)
24-01033	Assessment Concept for Transfer Learning Methods in Context of Lifetime Prognosis of Systems	Robin Steve Bauer (GERMANY)
24-01061	Training a Foundation Model in Engineering Design Understanding	Haluk Akay (NETHERLANDS)
24-01435	"Exploring AI/ML approaches for CBR-enabled Knowledge Reuse in Sheet Metal Tooling Development"	Aju Sukumaran Menon

Paper Slot 2
14:00 – 16:00

Session 4 Eco-Dn	Auditorium (I-4)	Dimitris Mourtzis - OK
24-01014	HDD Disassembly Optimization for the Efficient Recovery of NdFeB Permanent Magnets	Marco Papetti (ITALY)
24-01036	Electrify Agriculture: Concept Design for Electric Tractors Based on Customer-Relevant Properties	Korbinian Götz
24-01044	Development of a Methodology for Containment of Solution Spaces to Identify Eco-Friendly Product Concepts	Jonas Recker (GERMANY)
24-01055	Design of a piezo-actuated disassembly tool for seized threaded fasteners	Richard Blümel (GERMANY)
24-01059	Design of a Tendon Driven Virtual Rolling Contact Joint for Deep-Sea Application	Cora Maria Sourkounis (GERMANY)
24-01096	3D Data Integration in the Digital Twin for Circular Economy	Matthias Stollenwerk (GERMANY)

Session 5 HMI-AI	Room 1 (I-10)	Sander De Coninck - OK
24-01035	A Digital Colleague as intuitive operator support system in a HMLV Production Environment	Ewoud Verhelst (BELGIUM)
24-01052	Motion harmonization for human-robot collaborative handling tasks	Timo Habersang (GERMANY)
24-01065	Enabling Privacy-Aware AI-Based Ergonomic Analysis	Sander De Coninck (BELGIUM)
24-01074	Effective Nudging in Product Design – A Case Study in the Window Construction Industry	Mona Batora (GERMANY)
24-01594	A robust method for intelligent quality assurance of process curves	Matthias Lück

Session 6 AI-BIG-DA	Room 2 (I-12)	Jose Moises Araya Martinez - OK
24-01091	Process Mining For Supporting Data Processing And Process Design In Production And Logistics	Maxi Grobis (GERMANY)
24-01127	Information retrieval for AI-supported product repair and re-design	Benjamin Schleich (GERMANY)
24-01382	A machine learning method to predict printing time for the L-PBF process	Michele Trovato, M.D.
24-01407	Advancing Requirements Engineering with Large Language Models	Claudius Eilsel (GERMANY)
24-01513	Domain Adaptation Using Vision Transformers and XAI for Fully Synthetic Industrial Training	Jose Moises Araya Martinez (GERMANY)

Paper Slot 3
16:20 – 18:20

Session 7 Eco-Dn	Auditorium (I-4)	Dimitris Mourtzis - OK
24-01064	Towards Sustainable Urban Mobility: Integrating Design for Circular Economy-Principles in E-Scooter Development	Merlin Gerald Stoelzle (GERMANY)
24-01075	Sustainability Through Open-Source Hardware: A Review on Sustainability Aspects	Maximilian Stange (GERMANY)
24-01080	Predicting CO2 Emissions in Circular Economy Transitions: A Bayesian Network Approach under Data Uncertainty	Patrick Alexander Schmidt (GERMANY)
24-01082	Towards Perpetual Innovative Products Through Circular Factories: Integration of Functional Behavior into System Reliability	Felix Leitenberger (GERMANY)
24-01086	The advanced TRIZ method for a sustainable lightweight design	Kristian König (GERMANY)
24-01097	Exciting and profitable sustainability through Sufficiency Engineering	Kristian König (GERMANY)

Session 8 HMI-AI	Room 1 (I-10)	Amar Kumar Behera - OK
24-01094	"Integrating operators and enabling technologies in construction equipment to enhance lifecycle value and future-proof business models"	Andre Leme Fleury
24-01095	Contribution to the synergies between ergonomics and lean management for industrial performance: a simulation-based approach	Akila Indeewara Kulathunga Weerapperuma Achchiathukoralage Don (FRANCE)
24-01359	Intelligent disassembly system for end-of-life product using human robot collaboration on a digital twin platform	Jinhua XIAO (ITALY)
24-00838	Analyzing the Impact of Digital Technology Challenges on the Sustainability Performance of MSMEs	Pittawat Ueasangkomsate
24-01493	Smart Autonomous Wireless Gripper for Human-Robot Collaborative Operation	Amar Kumar Behera (INDIA)
24-01748	Task-Oriented Hybrid Learning for Robotic Skill Acquisition and Control	charyar mehdi-souzani (FRANCE)

24-01205	Extended Reality for Process Visualization in Cloud Manufacturing: A Systematic Review	Kevin Thomas (GERMANY)
24-01011	Enhancing Design for Additive Manufacturing Through 3D Objects Clustering Using HICA and Segmentation Techniques	Robin Kromer (FRANCE)
24-01487	Data-Driven Parametric Optimization for Personalized SMA-Based Ankle-Foot Orthosis Design	Hasan Nazha (GERMANY)
24-01502	Integrated design of experimentation and production schedules for customized semiconductor device fabrication services	Hitoshi Komoto (JAPAN)



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Thursday 03/04/2025

Session CHAIRS

Paper Slot 4
09:00– 11:00

Session 10	Eco-Dn	Auditorium (I-4)	Dimitris MOURTZIS - OK
24-01108	De-Production model combining R-Strategies and D-Strategies in product and production systems life cycles: Application to Remanufacturing		António Baptista (PORTUGAL)
24-01135	Environmental impact analysis method of a steam turbine component welding process		Luca Manuguerra (ITALY)
24-01155	Optimizing Automotive Parts through Circular Economy Indicators		Louisa Maria Türke (GERMANY)
24-01383	Recycled powders: an Eco-Design approach for Laser-Powder Bed Fusion		Michele Amicarelli (ITALY)
24-01099	Sustainable Sheet-Metal Design: Employing the Product Carbon Footprint as Support for Engineers in Developing New Product Generations		Artur Krause (GERMANY)
24-01088	Design for Low-Carbon Lifecycle (DLCL): A conceptual framework		Eduardo Zancul (Brazil)

Session 11	Dn-Ind4.0 – 5.0	Room 1 (I-10)	Shiva Abdoli - OK
24-01024	Industry 4.0 in Labor Intensive Industries, Opportunities and Challenges		Shiva Abdoli (AUSTRALIA)
24-01050	Designing resilient product architectures with systems engineering – Applied in the context of an automation technology product		Dr. Chantal Sinnwell (GERMANY)
24-01106	Aerodynamic Feeding 4.1: Simulation Based Parameter Selection for a Flexible Part Feeding Prototype		Dasha Maria Shieff (GERMANY)
24-01118	Novel approach for the automated assessment of the »Fitness for Automation« of an assembly based on a neutral product model		Katharina Barbu (GERMANY)
24-00999	Towards a future-proof holistic production system		Olivia Bernhard

Session 12	BIG-DA+IoT-SMART	Room 2 (I-12)	Timm Fichtler - OK
24-01730	Towards a hybrid theory: Derivation of a view concept between Model-based Systems Engineering and Data Analytics		Timm Fichtler (GERMANY)
25-00098	Evaluation of a Descriptive Approach for Product Portfolio Modeling – A No-Success Story and What we can Learn From it		Michael Schlegel (GERMANY)
24-00993	"Implementing Digital Twins in SMEs: A Step-by-Step Methodology for Digital Production Twins"		Jan Molter
24-01002	Enhancement of accuracy in deformation and load estimation of gentelligent, sensor-integrating components for technical inheritance		Sören Meyer zu Westerhausen (GERMANY)
24-01030	Integrating assembly considerations into CAD: preliminary insights from industry practitioners		Sylvia Nathaly Rea Minango (SWEDEN)
24-01114	Structured Implementation of Model-based Systems Engineering in SME – Methodology and Case Study		David Inkermann (GERMANY)

Paper Slot 5
11:20– 13:20

Session 13	Eco-Dn	Auditorium (I-4)	Raphaela Camargo Garcia - OK
24-01438	Circularity-driven Design: A unified DfX framework for embedding sustainability in early design phases		Teresa Isabel Gonçalves (PORTUGAL)
24-01442	Conceptual Basics of a Structured Method Toolbox for Continuous Improvement towards Positive Impact Factory Design		Raphaela Camargo Garcia (GERMANY)
24-01446	A novel design methodology for reusing discarded products: repurposing function analysis		Pierre de La Morinerie (FRANCE)
24-01463	Development and implementation of a manipulator for the automated handling of electrodes during the disassembly of lithium-ion pouch cells		Sebastian Joshua Henschel (GERMANY)
24-01464	Evaluating environmental indicators for eco-labeling within the European railway sector: towards adaptive and sustainable transportation systems		Shantal Kartoidjoko (NETHERLANDS)
24-01101	Synergies Between Extended Producer Responsibility and Digital Product Passport in the Path to Sustainable Production		Raphaela Camargo Garcia (GERMANY)

Session 14	Dn-Ind4.0-5.0+CUS_TDn	Room 1 (I-10)	Shiva Abdoli - OK
24-01016	Development of Capability for Integrated Smart Production-Spare Part Warehouse System for SMEs in Fast-Moving Consumer Goods sector		Shiva Abdoli (AUSTRALIA)
24-01759	Performing under adverse conditions: On the problem of self-organizing production – a re-definition		Melanie Rentsch (GERMANY)
24-00971	PRIORITIZING CULTURAL INFLUENCING FACTORS – AN IMPOSSIBLE TASK?		Annika Bastian (GERMANY)
24-01028	Method for systematic creation of test scenarios for early customer involvement		Marcel Ebel (GERMANY)
24-01054	Integrating Customer-Dominant Logic in Smart Product-Service Systems Development for the Packaging Industry		Maren Kobusch (GERMANY)

Session 15	BIG-DA+IoT-SMART	Room 2 (I-12)	Thomas Trautner - OK
24-01043	DPAF – Digital Platform Software Architecture Framework: Designing Software Architecture for Digital Platform Business Models linked to Cyber-Physical Systems		Patrick Brecht (GERMANY)
24-01056	Containerized Pipeline for Standardized and Automated Testing of Global Path Planning Algorithms in ROS 2		Henrik Lurz (GERMANY)
24-01104	Design Support and Strategies for Integrating Sensing Functions into Machine Elements		Julian Peters
24-01105	Enhancing resilience on the shopfloor through data and service ecosystems – an industrial pre-pilot		Thomas Trautner (AUSTRIA)
24-01110	Advancing the Collaboration in Manufacturing Networks – A Systematic Literature Review on Implementations of Asset Administration Shells and Data Spaces		Fabian Moritz Zink (AUSTRIA)
24-01597	Success Factors in Product Management and the Role of Data		Timm Fichtler (GERMANY)

Paper Slot 6
14:00– 16:00

Session 16	Eco-Dn	Auditorium (I-4)	Panagiotis Stavropoulos - OK
24-01471	Disassembly Time Analysis in U-shaped Snap-fit: an Experimental Approach		Giorgia Pietroni (ITALY)
24-01472	"Emotional And Sustainable Design: A Two-Phase Approach to Designing Emotionally Engaging and Sustainable Cars"		Jean-Bernard – BLUNTZER
24-01476	Effect of R strategies implementation on Additive Manufacturing design aspects		Panagiotis Stavropoulos (GREECE)
24-01478	A design framework for sustainable manufacturing using Additive Manufacturing Processes		Panagiotis Stavropoulos (GREECE)
24-01093	Requirements for Modeling Frameworks in the Context of Assembly Work Instruction Development		Rieke Leder (GERMANY)
24-01488	Collaborative design process of immersive professional training software: industrial use case for an immersive risk hunt application		Jean-Bernard Bluntzer

Session 17 CUS_TDN		Room 1 (I-10)	Spyridon Georg Koustas - OK
24-01403	Agile Methods in Teaching Digital Engineering		Carsten Stechert (GERMANY)
24-01480	Product Management: Tasks, Roles, and the Importance of Data		Khoren Grigoryan (GERMANY)
24-01731	Developing industrial smart product-service systems: Opportunities and challenges for manufacturing firms		Spyridon Georg Koustas
24-01112	From customer to product: design tools for the visually impaired		EDUARDO AUGUSTO MONTEIRO DE ALMEIDA (BRAZIL)

Session 18 IoT-SMART		Room 2 (I-12)	Shiva Abdoli - OK
24-01126	Knowledge-based feedback of product information into product design		Benjamin Schleich (GERMANY)
24-01453	AI-Assisted Configurator Platform For Sharing Of Industrial AGVs And AMRs		Jan Schuhmacher (GERMANY)
24-01477	Data-Sovereign Architecture for Quality-As-A-Service Across Industrial Supply Chain Partners		Jose Moises Araya Martinez (GERMANY)
24-01484	Automatic Generation of MBS Models from a SysML System Model		Manuel Mennicken (GERMANY)
24-01489	SmartHomeFarming: Trends, Challenges, and Solutions in a Digital and Sustainable Future		Isaac Mpidi Bitu (GERMANY)
24-01115	Experimentable Digital Twin for Development of Electric Vehicles; A Case of Formula Society of Automotive Engineers		Shiva Abdoli (AUSTRALIA)

Paper Slot 7
16:20– 18:20

Session 19 Eco-Dn + SvDn		Auditorium (I-4)	Panagiotis Stavropoulos - OK
24-01570	A Lifecycle Model for the Environmental and Economic Assessment of Selective Laser Melting Processes		Cesare Chiacchietta (ITALY)
24-01591	A Potential Model to Support the Assessment and Introduction of Circular Economy in Sustainable Product Development		Bastian Nolte (GERMANY)
24-01417	Portfolio Optimization of Electric Vehicles for Design Equilibrium Identification		Jian Zhang (CHINA)
24-01450	A Framework for Integrating Design Optimization and Manufacturability in Electric Vehicle Production		Alessandro Simeone (ITALY)
24-01526	Design for Industry 5.0: Limitations of definitions and modelling		Panagiotis Stavropoulos (GREECE)

Session 20 Dn4S		Room 1 (I-10)	Mattia Maltauro - OK
24-00974	Additive or Traditional Manufacturing? An Unsupervised Multi-criteria Algorithm Approach Considering Complexity and Environmental Impact		Christian Spreafico (ITALY)
24-00981	Life cycle analysis of innovative automotive lightweight applications of low-density steels: preliminary overview.		Martino Oliboni (ITALY)
24-00991	Determination of the right level of detail: A methodical approach for life cycle costing integration in product development		Daniel Rosemann (GERMANY)
24-01001	Sustainable Mobility Design Decomposition – A Holistic Perspective		Ali Asghar Bataleblu (ITALY)
24-01026	Model-based Impact Analysis for Engineering Sustainable Products in Value Creation Networks		Sven Rarbach (GERMANY)
24-01404	Optimizing Product Design Through Linking Design Variables for Cost-Effective Manufacturing		Mattia Maltauro (ITALY)

Session 21 IoT-SMART+APSSE		Room 2 (I-12)	Maren Kobusch - OK
24-01528	"Design and Implementation of an IoT-based Automated Monitoring and Control System of an Aeroponic Greenhouse"		Konstantinos C Giotopoulos
25-00061	LLM-based design process for manual assembly		Michael Jonek (GERMANY)
25-00101	Equipment as a Service (EaaS): a case study for monitoring and billing using the Asset Administration Shell (AAS)		Dimitri Evcenko (GERMANY)
24-01051	Towards Sustainable Manufacturing: Divergent Approaches in Smart Product Service Systems by Machine Builders and Component Manufacturers		Maren Kobusch (GERMANY)
24-01409	Integrating Digital Twins and Extended Reality for Smart PSS Design: A Case Study on Smart Electric Tour Bus Development		Yan Zhang (SWEDEN)



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Friday 04/04/2025

Session CHAIRS

Paper Slot 8
09:00– 11:00

Session 22 SEM-Dn Auditorium (I-4) Mourtzis Dimitris - OK

24-00995	An Indirect Measurement Method for Accurate Quality of Service Assessment	Faadhil As-sayfullooh (JAPAN)
24-01023	Howling for a New Standard – Deficits in Open Source Hardware Documentation	Dominik Saubke (GERMANY)
24-01037	Appropriate Consideration of Interfaces in Product Development	Pascal Inselmann (GERMANY)
24-01046	Fostering Model Reuse in Model-based Systems Engineering using Knowledge Graphs	David Inkermann (GERMANY)
24-01073	Engineering Better Decisions: Exploring Influencing Factors – An Empirical Study	Mona Batora, M.Sc.
24-01053	A method for predicting the dielectric strength of batch MLCCs based on grain structural parameters	Donghui Li (China)

Session 23 Dn4S Room 1 (I-10) Nikolaos Papakostas - OK

24-01130	Procedure for the multi-objective design and sustainability optimization of composite sandwich structures in aircraft cabin applications	Katharina Zumach (GERMANY)
24-01142	Dynamicity for accurate Life Cycle Assessment results: the case of smartphone	Federica Cappelletti (ITALY)
24-01558	Evaluating the Circularity of Computer-Aided Design Models: A Systematic Literature Review	Felix Digiser (GERMANY)
24-01580	A paradigm shift in product sustainability: introducing a human-centric index	Alessandra Papetti (ITALY)
24-01744	Assessing and Visualising Sustainability Value of Product Concepts in Early Design Stage for Strategic Decision Making	Sze Yin Kwok (SWEDEN)
24-01415	Remanufacturing utilising robotics and digital technologies: review and outlook	Nikolaos Papakostas (IRELAND)

Session 24 APSSE+AR-VR – META V Room 2 (I-12) George Krimpas - OK

24-01069	Definition of value in the framework of systems engineering design methodologies with aeronautics insight	Rachele Rizzoli (ITALY)
24-01150	Generating additional Engineering Knowledge in Smart Product Value Creation Networks	Damun Mollahassani (GERMANY)
24-01445	Facilitating product and production development in early phases utilizing production features assets	Rohith Areth Koroth
24-01467	“Validity Criteria for Need and Benefit Situations in Early Stages of Product Engineering Projects”	Stefan Eric Schwarz
24-01040	Challenges and Requirements for Augmented Reality in Industrial Assembly Systems	Dennis Keiser (GERMANY)

Paper Slot 9
11:20– 13:00

Session 25 SEM-Dn Auditorium (I-4) Mourtzis Dimitris - OK

24-01076	Automated LCA through semantic integration of design and process data	Till Tschiltshcke (GERMANY)
24-01125	Evaluating the Extended C&C ² -Approach in a Live Lab and in Practice	Peter Michael Tröster (GERMANY)
24-01146	Development of a Process Model for the Extended C&C ² -Approach for Analyzing and Synthesis of Embodiment Function Relations	Peter Michael Tröster (GERMANY)
24-01372	A survey on the utilization of ontologies for decision-making in industrial product development	Jessica Pickel (GERMANY)
24-01418	Communication Approach for the Model-Based Engineering Change Management	Peter Tröster (GERMANY)

Session 26 Dn4S+Dn-BIOMFG Room 1 (I-10) Lukas Schnelle - OK

24-01062	Enabling the Operator during the Design – Application of a User-Centered Design Approach for Digital Assistance Systems in Automotive Assembly Lines	Johannes Zysk (GERMANY)
24-00960	Utilization of damage controlled forming processes – a case study on the design of airbag pressure bins	Lukas Schnelle
24-01048	Pre-structuring Product Development Challenges in the Context of Advanced Biomufacturing	Manuel Sonnenberg (GERMANY)
24-01375	Spatial Curve Approximation for Pneumatic Actuators: A Comparative Study of Spiral and Spline Models	Florian Schreiber (GERMANY)

Session 27 AR-VR – META V Room 2 (I-12) Panos Stavropoulos - OK

24-01066	Smart robotpatients: Evolving the designs of virtual reality-based patient simulators for clinical training	Amar Kumar Behera (INDIA)
24-01084	Immersive Onboarding: Designing a Training Framework for Effective Virtual Reality Integration in Product Development	Carsten Stechert (GERMANY)
24-01085	A Decade of Virtual Reality in Product Development: A Literature Review of Effectiveness, Challenges, and Future Research	Carsten Stechert (GERMANY)
24-01148	ScanVerse: An extended reality authoring platform for industrial digital twins	Serkan Solmaz (BELGIUM)
24-01581	Last-Mile Delivery Optimization: A Case-Study Using Meituan Dataset	Swaminath Venkateswaran (FRANCE)

Paper Slot 10
14:00– 16:00

Session 28 SEM-Dn Auditorium (I-4) Mourtzis Dimitris - OK

24-01426	Systematic classification of collaborative engineering activities	Juliane Balder (GERMANY)
24-01482	Maker Systems Engineering Systematic: A Practitioner-Driven Research Agenda	Dominik Hermelingmeier (GERMANY)
24-01485	A design framework for the development of an innovative water-electrolysis space propulsion system	Daniele Ferrara (ITALY)
24-01557	Structuring Systems Engineering Transformation: A three-step cycle of Transformation	Benedikt Grewe (GERMANY)
24-01638	MBTX: Proposing Semantics for systematically applying System Modelling Techniques across different Applications and Domains	Fabian Niklas Laukotka
24-01549	Review of Human Factors and Automotive Assembly Line Control Systems for Sustainable Production	Nikolaos Papakostas (IRELAND)

Session 29 Dn-BIOMFG+Dn D-SPS Room 1 (I-10) Marc Behringer - OK

24-01479	Combining Morphological and Techno-Economic Analysis: Evaluating the Impact of Battery Pack Design on Recycling	Finn-Augustin Brunnenkant (GERMANY)
24-01510	Probabilistic Reliability Analysis for Bolted Joints Considering Corrosion-Induced Failures	Nehal Afifi (GERMANY)
24-00973	A Configurator to Minimize Defects in Rotational Plastic Moulding	Christian Spreafico (ITALY)
24-00987	Structuring Inconsistency Situations in Engineering of Cyber-Physical Systems – a Description Template Proposal	Thomas Alexander Völk (GERMANY)
24-00992	Automated Information Extraction for Adaptation Design of Mechatronic Systems	Marc Behringer (GERMANY)

Session 30 AR-VR – META V Room 2 (I-12) Clara Pérez de los Cobos Cintas - OK

24-01402	Enhancing VR Usability: A New Testing Procedure and Industrial Case Study	Carsten Stechert (GERMANY)
24-01411	Augmented Reality to Visualize Digital Twins for Remote Final Acceptance Testing of Electrical Drives	Nedim Kovacevic (GERMANY)
24-01548	Integration of Industry Standards in VR Training Simulations	Nikolaos Papakostas (IRELAND)

Paper Slot 11**16:20– 18:20**

Session 31 DIG-PSS			Auditorium (I-4)	Mourtzis Dimitris - OK
24-01022	Analysis on industrial framework conditions for a holistic system development process			Veronika Spale (GERMANY)
24-01039	Examination of the Utilization of Use Phase Data for PSS Design			Max Werrel (GERMANY)
24-01081	Development and Implementation of Digital Heterogeneous Models in Model-based Systems Engineering			Thomas Schumacher (GERMANY)
24-01087	Requirement Oriented MBSE Approach for Next-Generation Electrified Rail Vehicles			Carsten Stechert (GERMANY)
24-01507	Communicating financial impact: A prototype for assessing customer value in remote operation support services			Haluk Akay (Netherlands)
Session 32 DnD-SPS			Room 1 (I-10)	Nikolakopoulos Pantelis - OK
24-01045	Non-planar 3D printing – Enhancing Design Potentials by Advanced Slicing Algorithms and Path Planning			David Inkermann (GERMANY)
24-01049	6-DoF Robot Base Positioning Methodology in Manufacturing Cells Using Inverse Reachability (ARBP-IR)			Caner-Veli Ince (GERMANY)
24-01098	Enhanced Basic Seat Assembly Concept Assessment: design methodology to advance civil aircraft seat installation			Rachele Rizzioli (ITALY)
24-01131	Smart product configurator applying large language models: the case of construction equipment machines			Eduardo Zancul (BRAZIL)
24-01169	Pattern Design for Electrostatic Self-Assembly			Martin Stucki (GERMANY)
Session 33 HDTWIN			Room 2 (I-12)	Tarek Musa - OK
24-01000	A Complexity-Based Framework to Design Resilient Cyber-Physical Production Systems			Ali Asghar Bataleblu (ITALY)
24-01007	“Concept for Digital Twin-based predictive Value Engineering”			Tarek Musa
24-01017	Digital Twin for Field Data Management: Design of a platform to promote FAIR principles and ensure data reusability			Rayen Hamlaoui (GERMANY)
24-01031	Digital Twin or Digital Model: An Analysis of Definitions along the Product Lifecycle			Timo Stauß (GERMANY)
24-01111	Architectural design of structural health monitoring (SHM) based digital twin for the next-generation landing gear			Agusmian Partogi Ompusunggu (UNITED KINGDOM)
24-01547	Optimising robot motion planning through the integration of diverse process simulation tools			Nikolaos Papakostas (IRELAND)