

Session 1: Wednesday 25/3, 10:10-11:30 h								
Room	Stora salen		Henny		Ingemar		Martin	
Topic	A: Product and production development for circularity		F: Robots and agents for product development and production		J: Education and upskilling		H: Artificial Intelligence and Machine Learning in manufacturing	
10:10	Adopting digital product passports: a sociotechnical perspective and research agenda	<i>Paraskeva Wlazlak, Annika Moscati, Ulf Seigerroth, Peter Johansson, Erik Bergström, Andreas Briggert, Rahel Kebede, J. Kävestad, R. Stolt</i> <i>Jönköping University</i>	Design and Development of a VR System to Familiarize Users with Collaborative Robot Safety Functions	<i>My Legendi, Maurice Lamb, Göran Grahn and Anna Syberfeldt</i> <i>University of Skövde</i>	Conceptualizing maintenance knowledge and learning in digitalized production	<i>Oscar Larsson, Jon Bokrantz and Annika Engström</i> <i>Chalmers University of Technology</i>	A transformer approach for remaining useful life prediction and fault diagnosis of mechanical equipment	<i>Yuchen Liu, Siyuan Chen and Ebru Turanoglu Bekar</i> <i>Chalmers University of Technology</i>
10:30	Information structures for requirements management of environmental performance in industrialised house building	<i>Gustav Jansson, Djordje Popovic, Rohith Areth Korothe and Fredrik Elgh</i> <i>Luleå University of Technology</i>	Robots and Intelligent Agents for Product Creation and Manufacturing in Sustainable Digitalized Manufacturing Systems	<i>Rajesh Patil and Magnus Lofstrand</i> <i>Örebro University</i>	Course-Based Work-Integrated Learning in Engineering Education: A Case Study of Short-Term Industry Placements	<i>Miranda Kedback and Victor Hedén</i> <i>University of Skövde</i>	Spatio-Temporal Graph Neural Network Surrogate Modeling for Predicting Sheet Metal Deformation in a Novel Forming Process.	<i>Ali Kheirandish, Marie Jonsson and Mehdi Tarkian</i> <i>Linköping University</i>
10:50	A comparative study of remanufacturing practices in the Swedish furniture industry	<i>Jimmy Johansson, Peter Almström, Mirka Kans and Malin Löfving</i> <i>Linnaeus University</i>	Toward Cognitive Augmentation: Personalization and Standardization of Humanoid Social Robot Instruction	<i>Huizhong Cao, Siyuan Chen, Greta Braun and Johan Stahre</i> <i>Chalmers University of Technology</i>	Augmented Reality Applications in Mining: Enhancing Training and Equipment Maintenance	<i>Phillip Tretten, Joel Lööv and Prasanna Illankoon</i> <i>Luleå University of Technology</i>	LLMS, Manufacturing Knowledge Graphs & GraphRAG enabling Intuitive Analytics	<i>Richard Senington, Ludwig Mittermeier and Amos Ng</i> <i>University of Skövde</i>
11:10	Toward a Circular Future: Research Directions for circular product life cycle stages in manufacturing companies	<i>Malin Löfving and Roland Stolt</i> <i>Tekniska Högskolan i Jönköping</i>	Vision-Based Robot Manipulation for Protective Cap Removal at an Industrial Assembly Station	<i>Hampus Hjalmarsson, Kevin Karlsson, Anna Syberfeldt, My Legendi and Atieh Hanna</i> <i>University of Skövde</i>	The Concept of Skill Gaps: A Thematic Analysis of Global Industry Perspectives	<i>Greta Braun, Mattias Bokinge, Paavo Rätty, Pauliina Rikala, Rajja Hämäläinen, Anna Syberfeldt, Johan Stahre</i> <i>Chalmers University of Technology</i>	Machine Learning Based Prediction of Surface Quality in Friction Stir Welding	<i>Naveen Loganathan, Vivek Patel and Joel Andersson</i> <i>University West</i>

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Session 2: Wednesday 25/3, 15:20-16:40 h								
Room	Stora salen	Henny			Ingemar		Martin	
Topic	B: Circular and sustainable manufacturing	A: Product and production development for circularity			I: Advanced manufacturing processes		H: Artificial Intelligence and Machine Learning in manufacturing	
15:20	From Production Data to Resource Efficiency: A Case Study on Machining Operations	<i>Qi Fang, Carlos Alberto Barrera Diaz, Mélanie Despeisse, Kanika Gandhi, Lena Moestam, B. Johansson</i> <i>Chalmers University of Technology</i>	Green design opportunities in three robot investment case studies	<i>Martin Kurdve and Malin Elvin</i> <i>RISE</i>	From Fixed Plans to Dynamic Production: Lot-Sizing and Production Sequencing Optimization in CNC Manufacturing – A Case Study	<i>Anan Ashrabi Ananno and Marie Jonsson</i> <i>Linköping University</i>	Developing RAGs for robot code generation	<i>Omkar Salunkhe, Siyuan Chen, Anna Syberfeldt and Johan Stahre</i> <i>Chalmers University of Technology</i>
15:40	Exploring Smart Circular Economy in Manufacturing Industries: Feasible Use Cases and Key Challenges	<i>Nithin Nagendra, Koteswar Chirumalla, Auday Al-Dulaimy, Anna Öhrwall Rönnbäck and Mohamed Elnourani</i> <i>Mälardalens University</i>	Modelling Production Equipment Requirements by Function-Means Principle to Support Reconfigurable Solutions	<i>Abdul Wahab, Carin Rösiö, Fredrik Elgh and Filip Skärin</i> <i>Jönköping University</i>	Enabling Scalable Structural Battery Composite Production: Key Considerations and Possibilities	<i>Ellinor Jansson, Emelie Seignér, Johanna Xu, Leif Asp and Björn Johansson</i> <i>Chalmers University of Technology</i>	Integrating Domain Knowledge and Data for Fault Diagnosis in Production Machinery: A Hybrid Framework	<i>Pu Sun, Ruirui Zhong, Binbin Qiu and Andreas Archenti</i> <i>KTH</i>
16:00	Developing dynamic maintenance to achieve sustainable, robust and resilient production – a case study from a sawmill	<i>Liselott Lycke, Mirka Kans, Kristina Eriksson, Anders Skoog and Tinh Sjökvist</i> <i>Högskolan Väst</i>	Autonomous and semi-autonomous data collection for production planning in engineer-to-order manufacturing: Lessons from construction use cases	<i>Jarkko Erikshammar, Lars Stehn and Mathias Haage</i> <i>Luleå tekniska universitet</i>	Hybrid AHP -TOPSIS and Constraint Programming for Maintenance Prioritisation and Scheduling in Production Systems	<i>Vishwas Aravind, Mohan Rajashekarappa, Alice Namutebi, Roger Burman, Marcus Ljung, Akshay Bhat, Ebru Turanoglu Bekar</i> <i>Chalmers University of Technology</i>	Agentic Framework for Production Time Estimation of Sheet Metal Parts from Engineering Drawings Using Multi-Modal Document Analysis	<i>Hamideh Pourrasoul Ouzi, Marie Jonsson, Mehdi Tarkian and Ali Kheirandish Koshkooi</i> <i>Linköping University</i>
16:20	Identifying Energy Bottlenecks in Manufacturing Systems through an Integrated Dashboard	<i>Sunith Bandaru, Amos H.C. Ng, Carlos Alberto Barrera Diaz and Lars Hanson</i> <i>University of Skövde</i>	The state of practice in product development for the circular economy in industrial manufacturing companies in Sweden	<i>Roland Stolt and Malin Löfving</i> <i>Jönköping University</i>	Mechanical and microstructural properties of 1100M high strength steel manufactured with laser directed energy deposition wire method	<i>Vesa Tepponen, Kalle Lipiäinen, Shahriar Afkhami and Ilkka Poutiainen</i> <i>LUT University, Finland</i>	Prerequisites for Data Driven Production Planning: Evidence from a Heavy Duty Vehicle Manufacturer	<i>Christos Kakouras, Anna Granlund, Kristian Sandström and Stavros Vouras</i> <i>Mälardalen University</i>

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Session 3: Thursday 26/3, 12:00-13:40/14:00 h

Room	Stora salen		Henny		Ingemar		Martin	
Topic	B: Circular and sustainable manufacturing		A: Product and production development for circularity		E: Digital transformation and digital twins		G: Human-centered manufacturing	
12:00	Redefining Remanufacturing from Industrial and Policy perspectives	<i>Erik Sundin, Jennifer Russell and Carl Dalhammar</i> <i>Linköping University</i>	Towards a Maturity Model for Empowering Manufacturing SMEs in their Transition towards Circularity	<i>Melina Ettehad and Jenny Bäckstrand</i> <i>JTH</i>	Digitalisation and Carbon Footprint Evaluation of Gas Metal Arc Welding and Wire-Arc Directed Energy Deposition	<i>Cagtay Fabry, Andreas Pittner, Alexander Kaplan and Michael Rethmeier</i> <i>BAM, Germany</i>	Sociotechnical Barriers to Circular Furniture Production: A Case Study of Swedish Regional Counties	<i>Leon H. Hansen, Jimmy Johansson and Mirka Kans</i> <i>Linnaeus University</i>
12:20	Current Practices in Using Performance Indicators to Integrate Sustainability and Circularity Aspects in Product Realisation and Circularity Aspects in Product Realisation	<i>Sinah Malz, Kristina Säfsten and Paraskeva Wlazlak</i> <i>Jönköping University</i>	Assembly-aware concept evaluation in Modular Function Deployment, establishing an early-phase criteria subset and a selection routine	<i>Fabio Marco Monetti and Marin Dancer</i> <i>KTH Royal Institute of Technology</i>	Making a Digital Transformation Framework for SMEs come Alive	<i>Magnus Holm and Mattias Strand</i> <i>University of Skövde</i>	Defining Perceived Complexity in automation systems	<i>Anupama Govindaraj, Mats Jackson and Linn Gustafsson</i> <i>Mälardalens University</i>
12:40	Circular Value Propositions for Second-Life Battery Energy Storage Solutions: An Explorative Study of Charging Infrastructure	<i>Koteshwar Chirumalla, Suchandra Paul, Wiebke Reim, Erik Dahlquist, Ignat Kulkov and Vinit Parida</i> <i>Mälardalen University</i>	Reflections on Packaging Transitions: Industry Perspectives from SMEs and Large Companies in Sweden	<i>Nina Bilal and Mohamed Elnourani</i> <i>Luleå University of Technology</i>	Towards Advanced Collaboration Systems for Design Reviews in Product Development	<i>Francisco Garcia Rivera, Puranjay Mugur, Dan Li, Henrik Södertund</i> <i>Volvo Cars Corporation</i>	Human-centric Perception AI in Industrial Autonomous Systems - A Review	<i>Mahmood Reza Khabbazi, Fredrik Sikström, Fredrik Danielsson, Morgan Nilsen, Kristina Eriksson</i> <i>University West</i>
13:00	Operationalizing circularity and reconfigurability in production system design and development: insights from practice	<i>Filip Skärin, Carin Rösjö, Lars Töbj, Fredrik Johansson, Gary Linnéusson, Martin Birtic, Enrique Ruiz Zúñiga</i> <i>Jönköping University</i>	Drone design for circularity	<i>Carolyn Weckendrup, Omkar Salunkhe, A. Moriz, A. Göppert, M. Despeisse, B. Johansson, R.H. Schmitt</i> <i>RWTH Aachen University, Germany</i>	Software-defined Automation in Industrial Production: Drivers of Transformation	<i>Sairaju Ponnou, Jessica Bruch, Mohammad Ashjaei and Zenepe Satka</i> <i>Mälardalen University</i>	Inclusive Human-Centric Manufacturing – reviewing vulnerable workers' demands	<i>Sandra Jakšić, Huizhong Cao, Greta Braun and Johan Stahre</i> <i>Chalmers University of Technology</i>
13:20	Introducing the concept of smart and portable automation systems	<i>Mats Ahlskog, Maïke Klockner, Anupama Govindaraj, Mats Jackson and Jessica Bruch</i> <i>MDU</i>	LLM-Based Natural Language Interface for Robotic Control in Mixed Reality	<i>Iley Alvarez Funcke, Saul Alexis Heredia Perez, Kanako Harada and Andreas Archenti</i> <i>KTH Royal Institute of Technology</i>	Extending Discrete-Event Simulation Capabilities through Python Integration for Industry 4.0 Technologies	<i>Lateef Afolabi Oladosu, Qi Fang, Adrian Borbolla, Devarajan Ramanujan and Björn Johansson</i> <i>Chalmers University of Technology</i>	RePAIR Lab: Hybrid Intelligence for Human-Centered, Sustainable Remanufacturing of Electronics following a Human-Technology-Organization approach	<i>Doris Aschenbrenner, Martin Heckmann and Nicole Stricker</i> <i>Aalen University, Germany</i>
13:40	Circularity in the Swedish Steel Industry: Perspectives, Challenges and Opportunities	<i>Marco Frara, Mattias Lindahl, Pia Åkerfeldt, Ida Kero, Linn Berglund</i> <i>Luleå University of Technology</i>			Towards Smart and Sustainable Production: A Conceptual Framework for Sustainability Aspects in Digital Technology Selection and Integration	<i>Natalie Agerskans, Jessica Bruch, Mohammad Ashjaei and Koteshwar Chirumalla</i> <i>Mälardalen University</i>		

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Session 4: Thursday 26/3, 14:20-16:00 h								
Room	Stora salen		Henny		Ingemar		Martin	
Topic	B: Circular and sustainable manufacturing		C/D: Resilience and dual-use in manufacturing development for circularity / Industrial and societal symbiosis		E: Digital transformation and digital twins		G: Human-centered manufacturing	
14:20	Cloneable Automation Systems - Industrial Needs and Development Areas	<i>Mats Jackson, Maïke Klockner, Anupama Govindaraj, Mats Ahlskog and Jessica Bruch</i> <i>Mälardalens University</i>	Crisis resilience through a remanufacturing supply of electronics	<i>Martin Kurdve, Hanna Linden and Kerstin Johansen</i> <i>RISE</i>	An IIoT based Approach to monitoring production performance-A case study.	<i>Fongang Eric Nochawo, Mats Jackson, Monica Bellgran, Natalie Agerskans and Daheem Mehmood</i> <i>Mälardalens University</i>	Multi-disciplinary Optimization for Designing Human-Robot Collaborated Work-Cell for Low-Volume and High-Variant Production	<i>Swei Fu, Aitor Iriondo Pascual, Amir Nourmohammadi, Amos H.C. Ng, Magnus Holm, Sunith Bandaru, Filip Larsson, Jerry Olsson</i> <i>University of Skövde</i>
14:40	Sustainability and circularity practices in product realisation: on the development of a maturity assessment instrument for the manufacturing industry	<i>Kristina Säfsten, Ulrika Harlin, Fredrik Elgh and Filip Skärin</i> <i>Jönköping University</i>	AI-Driven Changeover Optimisation in Discrete Manufacturing: A Production Line-Based Analysis of Technology Readiness in Bearing Production	<i>Magnus Wahlgård, Arpita Chari, Muhammad Azam, Björn Johansson, Anna Syberfeldt, Johan Stahre</i> <i>Chalmers Teknisk Högskola</i>	Adopting Digital Product Passports in Supply Chains: Insights from the ABCDE Model and Sectoral Comparisons	<i>Areej Al-Sabban, Tarun Agrawal, Patricia van Loon and Patrik Jonsson</i> <i>Chalmers University of Technology</i>	Leadership development for improved health and safety in a complex production environment	<i>Joel Lööw, Mats Jakobsson, Stanislav Astakhov, Marcus Kullman and Johan Larsson</i> <i>Luleå University of Technology</i>
15:00	Energy Consumption and Argon Gas Emissions Analysis of Directed Energy Deposition of Inconel 718: Towards Sustainable Additive Manufacturing	<i>Olayinka Olaogun, Wickrama Arachchige Ravindu Sulakka Fernando, Fabian Hanning and Claes Fredriksson</i> <i>University West</i>	Enhancing Co-Production Impact in Industry - Academia Collaboration: Insights from Five Industrial PhD Workshops	<i>Anna Ericson Öberg, Mats Jackson and Andreas Hjertström</i> <i>Volvo CE and Karlstad University</i>	Smart Circularity in Manufacturing: Value Propositions from Five Industrial Use Cases	<i>Koteshwar Chirumalla, Nithin Nagendra, Auday Al-Dulaimy and Anna Öhrwall Rönnbäck</i> <i>Mälardalen University</i>	Defining Human-centeredness – a systematic review	<i>Sandra Mattsson, Nils Thylen and Johan Stahre</i> <i>RISE</i>
15:20	Data Needs in Cross-Functional Remanufacturing Decisions: Insights from Product Development, Sales, and Production	<i>Natalie Agerskans and Nicolas Leberuyer</i> <i>Mälardalen University</i>	Dimensions of Production Innovation in Sweden's Production 2030 Initiative: Insights from a Thematic Portfolio Analysis	<i>Mohamed Elnourani, Hossein Rahnama, Lisa Larsson and Anna Öhrwall Rönnbäck</i> <i>Luleå University of Technology</i>	A Multidimensional Perspective on Legacy-to-CPPS Transformation in Global Manufacturing Companies	<i>Tobias Englund, Jessica Bruch, Koteshwar Chirumalla and Mohammad Ashjaei</i> <i>Mälardalen University</i>	Supporting Ergonomics Evaluations in Manufacturing – A Comparison of Computer Vision and IMU-Based Motion Capture	<i>Raquel Quesada Diaz, Aitor Iriondo Pascual, Dan Högberg, Sunith Bandaru and Lars Hanson</i> <i>University of Skövde</i>
15:40	Designing Circular Systems: Rethinking Production, Manufacturing, Finance, and Policy for Sustainable Industrial Futures	<i>Bernd Weiss, Anna Öhrwall Rönnbäck, René Laufer and Stella Schuebel</i> <i>Luleå University of Technology</i>	A cloud decision support system for the reduction of electrical power peaks utilizing digital twins and machine learning predictors	<i>Simon Lidberg, Sofia Encinales Mejia, Stéphane Bouchereau, Jesper Bergquist and Amos Ng</i> <i>Volvo Trucks Technology and Industrial Division</i>	Developing and Executing a Digital Strategy in a Manufacturing SME – Reports from an Extensive Case Study	<i>Mattias Strand and Magnus Holm</i> <i>University of Skövde</i>	Human-Robot Communication using Large Language Models for Automated Kitting	<i>Mattias Bennulf, Fredrik Danielsson and Xiaoxiao Zhang</i> <i>University West</i>

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