19th International Conference on Design Science Research in Information Systems and Technology (DESRIST 2024)
University West, Trollhättan Sweden

Conference Theme – Design Science Research for a Resilient Future

DESRIST 2024 Conference Program

Monday 3rd June		
08:30 am – 4.30 pm	**Registration Desk**	**Entré AiL (D122)**
07:30 am – 5:45 pm	**DESRIST Doctoral Consortium** DC Chairs: Leona Chandra Kruse and John Venable	**Entré AiL (D122)**
9:00 am – 5:00 pm	**Workshop: Meaning, Values, and Actions in the Design of Digital Practices – Explicating Pragmatism in Information Systems Research** Workshop Chairs: Göran Goldkuhl and John Stouby Persson	**C118**
9:00 am – 12:00 pm	**Workshop: Designing AI for and with Society – How Research and Industry Collaborate for a Resilient Future** Workshop Chairs: Monika Hattinger, Ulrika Lundh Snis, Brian Donnellan, and Matthew Mullarkey	**F203 + F206**
9:00 am – 10:30 am	**Tutorial: Problematising and Ideating in Design Science Research Using Coloured Cognitive Mapping for Design Science Research (CCM4DSR)** Tutorial Chair: John Venable	**Entré AiL (D122)**
10:00 am – 10:30 am	**Coffee Break**	**Entré AiL (D122)**
10:30 am – 12:00 pm	**Tutorial: Managing Risk in Design Science Research Using the Methodology for Risk Management in Design Science (MeRMaiDS)** Tutorial Chairs: John Venable, Jan Vom Brocke, and Robert Winter	**Entré AiL (D122)**
10:30 pm – 5:00 pm	**Workshop: Mapping HCI Methodologies to the DSR Design Phase** Workshop Chairs: Bilal Maqbool, John Sören Pettersson, Malin Wik, and Farzanah Karegar	**C123**
12:00 pm – 1:00 pm	**Lunch**	**Entré AiL (D122)**

1:00 pm – 3:00 pm	**Workshop: From Theory to Practice – Moving toward Responsible DSR** Workshop Chair: Alexander Herwix	**C120**
2.30 pm – 3:00 pm	**Coffee Break**	**Entré AiL (D122)**
3:00 pm – 5:00 pm	**Workshop: Introduction to BAUSTEIN – A Tool for Configuring and Representing Design Research** Workshop Chairs: Thorsten Schoormann, Frederik Möller, and Leona Chandra Kruse	**F203**
6:00 pm – 9:00 pm	**DESRIST 2024 Conference Reception**	**Restaurang Västan**

Tuesday 4th June		
08:30 am – 4.30 pm	**Registration Desk**	**Entré AiL (D122)**
8:30 am – 10:00 am	**Conference Opening Session** **Welcome and Introductions** - **Amir Haj-Bolouri & Matti Rossi** - **Lena Sjöberg** **Keynote Address – Prof. Mikael Wiberg**	**Entré AiL (D122)**
10:00 am – 10:30 am	**Coffee Break**	**Entré AiL (D122)**
10:30 am – 12:00 pm	**Parallel Paper Session 1: Design Science Research for a Resilient Future** Session Chairs: Yenni Tim Disentangling the Problem Space: A Validated Problem Statement for Sustainability Support Systems *Vincent Beermann, Annamina Rieder, Falk Uebernickel and Jan Vom Brocke* Let Citizens Speak Up: Designing Intelligent Online Participation for Urban Planning *Marten Borchers, Maren Gierlich-Joas, Navid Tavanapour and Eva Bittner* Overcoming Rebound Effects: A Process Blueprint for Circular Systems Design *Konstantin Remke and Henry Willem Müller* **(NOMINATED FOR BEST PAPER)**	**C118**

10:30 am – 12:00 pm	**Parallel Paper Session 2: DSR in Practice #1** Session Chair: Jan Vom Brocke No Need to Cry over Spilt Milk: A Workflow for Regenerating Graph Data Using Robotic Process Automation *Thomas Auer and Christian Schieder* Towards a Smarter Tomorrow: A Design Science Perspective on Building a Smart Campus IoT Data Platform *Mevludin Blazevic, Timon T. Aldenhoff and Dennis M. Riehle* Bridging Enterprise Knowledge Management and Natural Language Processing - Integration Framework and a Prototype *Justus Cappel and Friedrich Chasin*	**C120**
10:30 am – 12:00 pm	**Parallel Panel Session:** *DSR – Is the Whole Greater or Less than the Sum of its Parts?* Panel Chairs: Sarah Hönigsberg and Munir Mandviwalla Panelists: Leona Chandra Kruse, Sandeep Purao, Christoph Seckler, Maung Sein, Monica Chiarini Tremblay	**Entré AiL (D122)**
12:00 pm – 1:00 pm	**Lunch**	**Entré AiL (D122)**
1:00 pm –	**Keynote Address – Prof. Sandeep Purao**	**Entré AiL (D122)**

2:00 pm		
2:00 pm – 3:30 pm	**Parallel Paper Session 3: Emerging Topics in DSR** Session Chairs: Juho Lindman Design principles for collaborative generative AI systems in software development *Johannes Chen and Jan Zacharias* **(NOMINATED FOR BEST PAPER)** Designing a Reference Architecture for Collaborative Condition Monitoring Data Spaces: Design Requirements and Views *Philipp Hagenhoff, Steffen Biehs, Frederik Moeller and Boris Otto* Navigating Risks in the Crypto Landscape – A Taxonomy of Risk-related Aspects of Crypto Assets *Jenny Jakobs, Jan Muntermann and Robert Nickerson*	**C118**

	Augmenting Frontline Service Employee Onboarding via Hybrid Intelligence: Examining the Effects of Different Degrees of Human-GenAI Interaction *Philipp Reinhard, Nicolas Neis, Lisa Kolb, Dennis Wischer, Mahei Manhai Li, Axel Winkelmann, Frank Teuteberg, Ulrike Lechner and Jan Marco Leimeister* **(NOMINATED FOR BEST STUDENT PAPER)**	
2:00 pm – 3:30 pm	**Parallel Paper Session 4: Prototype Demonstrations & Posters** Session Chairs: Frederik Möller and Thorsten Schoormann	**Entré AiL (D122)**
3.30 pm – 4:00 pm	**Coffee Break**	**Entré AiL (D122)**
4.00 pm – 5:30 pm	**Parallel Paper Session 5: Emerging Topics in DSR #2** Session Chairs: Brian Donnellan Designing an LLM-based Open Data Assistant for Effective Use *Till Carlo Schelhorn, Ulrich Gnewuch and Alexander Mädche* **(NOMINATED FOR BEST PAPER)** Theorizing the Lean Startup Approach: Towards Well-Grounded Design Principles *Katharina Sielski and Christoph Seckler* Meta-requirements for LLM-based Knowledge Exploration Tools in Information Systems Research *Jonas Sjöström and Stefan Cronholm* Beyond E-Commerce: A Design Science Study into Crafting a Model for Customer- centric M-Commerce *Christoph Tomitza, Sebastian Spies, Ulvi Ibrahimli, Christian Zeiß, Lisa Straub and Axel Winkelmann*	**C118**
4.00 pm – 5:00 pm	**Parallel Paper Session 6: Research-in-Progress #1** Session Chairs: Samrat Gupta Conceptual Design and Evaluation Plan of a Mobile Relational Agent for Dengue Management in Bangladesh *Md Asif Bin Khaled, Shagufta Yasmin, A S M Farhan Al Haque, Ashraful Islam, Eshtiak Ahmed and Beenish Moalla Chaudhry* Investigation of Artificial Mental Models for Healthcare AI Systems *Sabine Janzen, Wolfgang Maass and Prajvi Saxena*	**C120**

	Towards Assisted Excellence: Designing an AI-Based System for Presentation Slide Evaluation *Alexander Meier, Roman Rietsche and Ivo Blohm*	
5.30 pm – 6:10 pm	**DESRIST Business Meeting**	**Entré AiL (D122)**
7:00 pm – 11:00 pm	GALA DINNER The gala dinner starts with a social event at Saab Car Museum accompanied with sparkling wine and presentations, proceeded with a three course dinner, awards, and live music at Lilla Nova. Transportation from **Campus Area** to **Saab Car Museum** occurs at **6.45 pm.**	**Lilla Nova**
11:30 pm	**Transportation back to campus area** Transportation back from **Lilla Nova (Innovatum Area)** to **Drottningstorget (behind SOUR Restaurant)** occurs at **11.15 pm**.	**Outside Lilla Nova**

Wednesday 5th June		
08:30 am – 12.00 pm	**Registration**	Entré AiL (D122)
8:30 am – 10:30 am	**Parallel Paper Session 7: DSR in Practice #2** Session Chair: Jan Vom Brocke Generating Synthetic LiDAR Point Cloud Data for Object Detection Using the Unreal Game Engine *Mathias Eggert, Max Schade, Florian Bröhl and Alexander Moriz* Exploring design principles promoting organizational knowledge creation via robo-advisory: the case of collaborative group decision-making in the after sales management *Nicole Namyslo, Dominik Jung and Timo Sturm* Designing For Banking Resilience: A DeFi E-Learning Solution *Christian Zeiß, Lisa Straub, Viktoria Hahn, Konstanze Lang, Myriam Schaschek, Christoph Tomitza and Axel*	C118

	Winkelmann	
8:30 am – 10:30 am	**Parallel Paper Session 8: DSR Methods #1** Session Chair: Alexander Mädche A Typology of Knowledge Creation in Design Science Research Projects *Samir Chatterjee, Anol Bhattacherjee and Tom Gilb* Classifying Design Science Research in Terms of Types of Reasoning from an Epistemological Perspective *Christian Daase, Christian Haertel, Abdulrahman Nahhas and Klaus Turowski* **(NOMINATED FOR BEST STUDENT PAPER)** Visualizing Argumentation for Research Problem and Research Design *Knut Hinkelmann, Valeriia Afonina and Devid Montecchiari* Toward a Method for Design Science Research Meta-Studies to Improve the Reusability of Design Principles *Bijan Khosrawi-Rad, Linda Grogorick, Timo Strohmann and Susanne Robra- Bissantz*	**C120**
10:30 am – 11:00 am	**Coffee Break**	**Entré AiL (D122)**
11:00 am – 12:00 pm	**Keynote Address – Tenstar Simulations**	**Entré AiL (D122)**
12:00 pm – 1:00 pm	**Lunch**	**Entré AiL (D122)**
1:00 pm – 2:30 pm	**Parallel Paper Session 9: DSR Methods #2** Session Chair: Alexander Mädche Dialectical Tensions in Design Theorizing: Exploring the Selection, Use, and Development of Kernel Theory *Frederik Möller, Thorsten Schoormann, Raffaele Ciriello and Magnus Rotvit Perlt Hansen* **(NOMINATED FOR BEST PAPER)** Design Science Research: A Guide for Innovative Higher Education Teaching: Towards an Application-Oriented Extension of the Proficiency Model *Vanessa Maria Steinherr, Martin Brehmer, Raphaela Stöckl and Ramona Reinhelt* Let's Chat to Negotiate: Designing a Conversational	**C118**

	Agent for Learning Negotiation Skills *Eva-Maria Zahn and Sofia Schöbel* **(NOMINATED FOR BEST STUDENT PAPER)**	
1:00 pm – 2:30 pm	**Parallel Paper Session 10: General Track #1** Session Chairs: Matthew Mullarkey Conceptualizing Multi-Party AI Reliance for Design Research *Sven Eckhardt, Mateusz Dolata, Ingrid Bauer-Hänsel and Gerhard Schwabe* Wasn't Expecting That – Using Abnormality as a Key to Design a Novel User- Centric Explainable AI Method *Tobias Jahn, Philipp Hühn and Maximilian Förster* **(NOMINATED FOR BEST STUDENT PAPER)** Designing a Large Language Model-Based Coaching Intervention for Lifestyle Behavior Change *Sophia Meywirth* Predicting Medical Device Recalls: An Evidence-Informed Deep Learning Approach Leveraging Regulatory Submission Characteristics Yi Zhu, Soumya Sen, Pinar Karaca-Mandic and Alex Everhart	**C120**
2.30 pm –	**Coffee Break**	**Entré AiL (D122)**

3:00 pm		
3.00 pm – 4:00 pm	**Parallel Paper Session 11: Research-in-Progress #2** Session Chairs: Sarah Hönigsberg Bridging Problems and Solutions through the Concept of Accommodation *Anders Tell, Erik Perjons and Martin Henkel* Enabling Intellectual Control in a Mandatory Environment *Cecilie Caroline Falch, Oliver Krancher and Alan Hevner* Exploring Forum Theater – An Immersive Learning Environment for Facilitating Self-determination *Sofie Wass, Leona Chandra Kruse and Mugula Chris Safari*	**C118**
3.00 pm – 4:30 pm	**Parallel Paper Session 12: General Track #2** Session Chairs: Monica Chiarini Tremblay A design-principle-friendly conceptual model of	**C120**

	observational crowdsourcing *Sanaz Nabavian and Jeffrey Parsons* Design principles for Machine Learning Based Clinical Decision Support Systems: A Design Science Study *Jonas Sjöström, Petra Dryselius, Lina E. Lundgren, Monika Nair, Amira Soliman and Jens Nygren* Theory-driven Design of a Negotiation Canvas for Reaching Win-Win Agreements *Eva-Maria Zahn and Ernestine Dickhaut* **(NOMINATED FOR BEST PAPER)**	
4:30 pm – 5:00 pm	**Coffee and Closing Session**	**Entré AiL (D122)**