

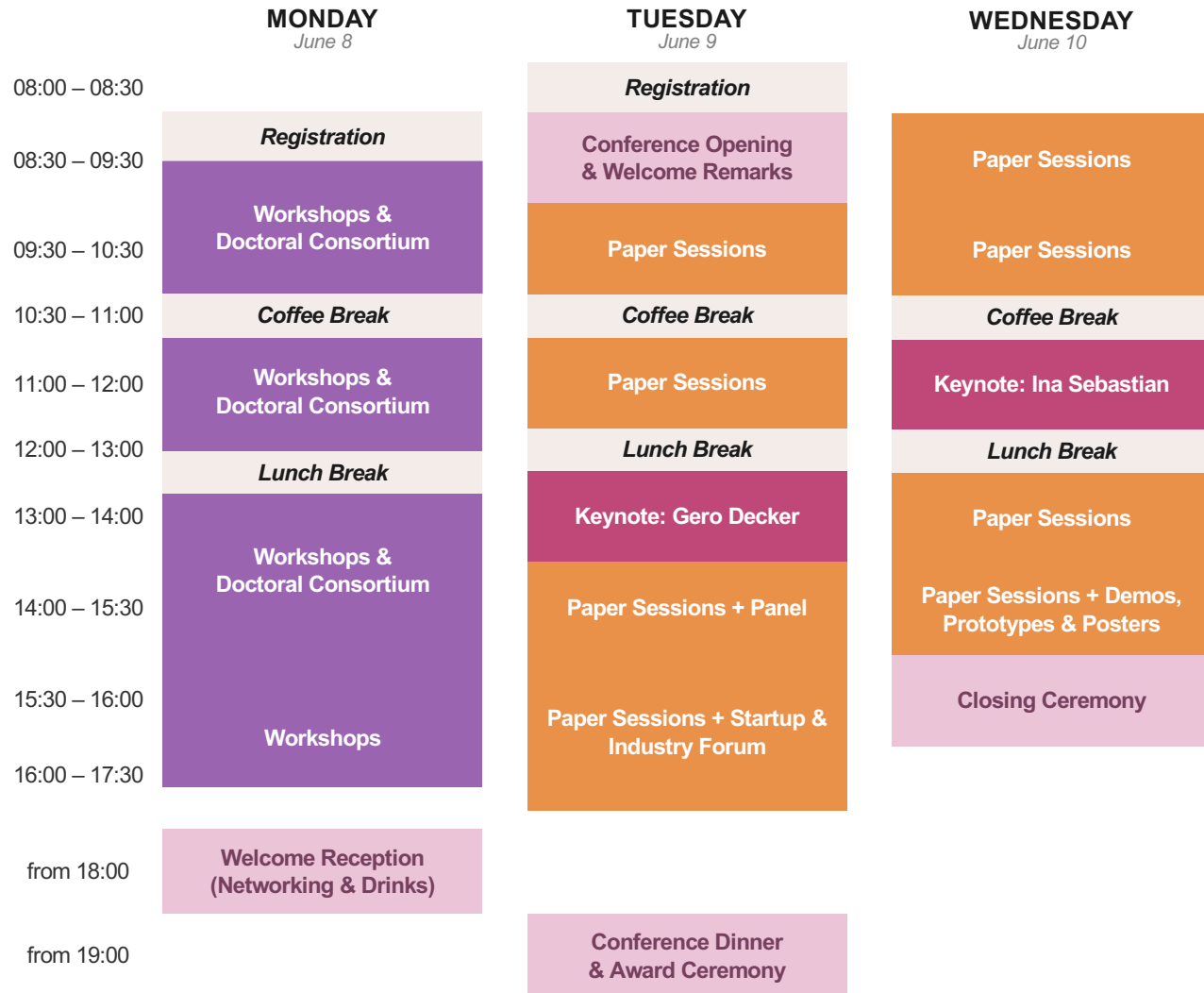


DESRIST 2026



The 21st International Conference on Design Science
Research in Information Systems and Technology

› Program Overview



› Monday

TIME	Senatsaal	S01	S05
08:30 – 09:00	<i>Registration & Welcome</i>		
09:00 – 10:30	Doctoral Consortium	Workshop "The Role of the Researcher: Exploring Reflexive Practices in Design Science Research"	Workshop "The Role of Vision in Design Science Research"
10:30 – 11:00	<i>Coffee Break & Networking</i>		
11:00 – 12:30	Doctoral Consortium	Workshop "The Role of the Researcher: Exploring Reflexive Practices in Design Science Research"	Workshop "The Role of Vision in Design Science Research"
12:30 – 13:30	<i>Lunch Break</i>		
13:30 – 17:30	Doctoral Consortium	Impact Forum	Workshop "Anticipatory Design Research"
18:00	Welcome Reception - Networking & Drinks (Schloss Münster)		

› Tuesday

08:00 – 08:30	Registration
08:30 – 09:15	Conference Opening & Welcome Remarks
09:30 – 10:30	Paper Sessions 4 parallel tracks
S01	Future of Design and Entrepreneurship Design principles for engaging with desirable future(s): A study on experiencing entrepreneurial action to co-create common future(s) within planetary limits - A. Bloch Designing AI-based Entrepreneurial Coaching Systems - J. Liebschner, D. Heinz, G. Satzger Leading Through Change: Designing an AI Companion for Decision Support from Continuous Conversation with Strategic Decision Makers (RiP) - J. Vom Brocke, B. van Dellen, Z. Zoepffel, T. Zimmermann and T. Strohmann
	Future of Healthcare and Wellbeing Designing a Deployable ML Development Framework that Operationalizes Trustworthy Predictive Applications in the Medical Field - A. Brahma, K. Seal, Y. Ghasemi, S. Chatterjee Design Knowledge for Ethical Use of AI in Emergency Medical Dispatch Systems - L. Dasmann, A. van der Staay, C. Janiesch When Digital Tools Enter the Playground: Designing Information Systems for IT-Distant Care Contexts (RiP) - N. Korte, F. Lüttgenau
	Future of Data-Driven and AI-Enabled Design NeuroAdaptX: Designing Neuro-Adaptive Explanations for Cognitive Accessibility in Explainable AI Interfaces - E. Bunde Towards a Design Theory of Discourse Strategies for Conversational Agents - S. Gregor, A. Maedche, S. Morana Improving Human Foraging with Hybrid Semantic Graph Retrieval and LLM-Supported Meaning Making (RiP) - A. Meier
S08	Future of Design Science Education Orchestrating Scaffolding AI Agents: Design Principles for Mechanism-Specific Learner Support - D. Kozachek, A. Janson Authentic Learning by Design: Meta-Requirements for AI Support for Students and Educators - A. Wolters, G. Kipping, S. Wass, M. Gau, D. M. Riehle, L. C. Kruse Generative AI in Knowledge Management: Designing a GenAI Chatbot for Tacit Knowledge Externalization - O. Dinand, V. Heimbürg, M. Wiesche

10:30 – 11:00	Coffee Break
11:00 – 12:00	Paper Sessions + Panel 5 parallel tracks
S01	Future of Financial Services Designing Hyper-Personalized Financial Co-Pilots: An Artifact for Building Trust through Conversational Advice - C. Brincoveanu, K. V. Carl, O. Hinz Contextual Orchestration and Reward Shaping Engine (CORSE): Robust Decision-Making in Financial Advising - R. Yurosko, A. Hevner, W. Jank, D. Zantedeschi AI-enabled Automation of High-Risk Decision-Making Processes (RiP) - P. Nemecek, T. Zimmermann, S. Franzoi, J. Vom Brocke
	Future of Healthcare and Wellbeing No Labels, No Problem? Designing an Explainable Unsupervised Anomaly Detection System for Ambient Assisted Living - C. Brincoveanu, L. Ruckes, A. Witzki, T. Dreesbach, K. V. Carl When Shortest Isn't Safest: A Design Science Approach to Senior-Friendly Pedestrian Routing - E. Ünal, D. Eisenhardt, C. Meske, S. N. Afzali, A. Dogangün An Agentic Workflow for Patient Medical History Summarization and Visualization (RiP) - J. Xu, T. Babama
	Future of Data-Driven and AI-Enabled Design Navigating the XAI Forest: Designing a Tree-Based Decision Support Tool for Context-Aware Method Recommendations - S. Haas, M.-A. Weiher, M. Högemann, O. Thomas From Human-in-the-Loop to Human-on-the-Loop: VALID Framework for Resilient Trust in Autonomous AI Agent Contract Execution - J. Ocasio, M. Mullarkey Making Informal Work Visible: Multimodal AI-Enabled Process Discovery in Public-Sector Meetings (RiP) - A. Hafner, M. A. Ketata, H. Wittges
S08	Future of Design Science Methodology Generating Design Knowledge Without Doing Design: The Design Researcher as Curator - P. Antunes, A. Drechsler Extending Design Science Evaluation: Using the Critical Incident Technique as a Semi-Naturalistic Approach - C. Abbott, M. Tate, W. Bandara, L. Tam Design Science Research in an Era of Generative AI -Challenges and Theoretical Guidelines - P. Zur Heiden, D. Beverungen, C. Bartelheimer, C. Breidbach
	Panel Meaning-Making in Design Science Research: Reflections from Early-Mid Career Scholars
	Aula

› Tuesday

12:00 – 13:00	Lunch Break
13:00 – 14:00	Keynote Gero Decker: „Agentic AI for the Enterprise. Why it matters and why it’s hard” - Foyer / Plenary
14:00 – 14:15	Coffee Break
14:15 – 15:15	Paper Sessions 3 parallel tracks
Aula	Future of Ecosystems for DSR
	Collective Action Planning: From Complex Thought to Simple Action - A. Margolis, F. Blomsma
	Beyond the Golden Record: Toward a Design Theory for Trustworthy Master Data Management with Self-Sovereign Identity - N. Schulte, I. H. J. Jeyakumar, M. Kubach, C. Janiesch
	Designing Open Access Platforms for Multilingual Language Awareness in Early Childhood Education (RiP) - M. Burger, N. Kloth, C. Vom Brocke
Senats-saal	Future of Healthcare and Wellbeing
	Healthcare Ecosystem Orchestration: An Action Design Research Study for Cross-Level Patient Navigation - F. Bontrup, C. Kollwitz, L. Biller, H. Wache, S. Hönigsberg
	A Theory-Driven LLM Agent Design for Generating Synthetic Data in Tele-Triage - H. S. Xie, M. Namvar, S. Akhlaghpour, A. Staib
Fest-saal	Future of Data-Driven and AI-Enabled Design
	A Design Taxonomy for GUI-based Test Automation - E. Kara, B. Khosrawi-Rad, F. Möller
	Design Knowledge Quality in Human-AI Co-Design (RiP) - S. Nabavian, J. Parsons
	Designing Process Mining for Positive Organizational Outcomes (RiP) - J. Nacke, R. Plattfaut, R. Riedl

15:30 – 16:30	Paper Sessions + Startup & Industry Forum (Plenary)
Aula	Future of Ecosystems for DSR + Theme Track
	Testbed Research – Practitioners and Researchers as Architects of Digital Ecosystems - S. Hiller, P. Weber, M. Werling, H. Lasi
	From Collaboration to Toolkit: Applying eDSR in a Generative AI Knowledge Management Project (RiP) - D. Kudryavtsev, U. Khan, J. Kauttonen, J. Remes
	The LLM as Adversary: Designing “Dirty Audit” As-sessments to Elicit Evaluative Judgement in Education (RiP) - S. Richter, P. Dodd
Senats-saal	General Track
	Reputation as a Sociotechnical Design Problem: A Social Systems Theory Lens for Business Reputation Systems - U. Ibrahimli, S. Hemmrich, A. Winkelmann
	Designing Assistive Technologies for Blind and Visually Impaired: Problem Understanding and Design Objectives - J. Laufer, L. Banh, T. Schoormann, G. Strobel
	A DSR-Informed Intervention to Strengthen Self-Determination in Blended Professional Learning (RiP) - P. Weritz
Fest-saal	Future of Data-Driven and AI-Enabled Design
	The Medium Is the Prompt: Prompts as Design Science Artifacts - K. Schulte, S. Herath, F. Möller, C. Legner
	Design Principles for Designing and Governing Hyperautomation Implementation - N. Neis
Foyer / Plenary	Startup & Industry Forum
	Poster session of DSR projects developed with or by industry partners and startups

› Tuesday

16:45 – 17:45 Paper Sessions 3 parallel tracks	
Aula	Theme Track
	Making the Implicit Explicit: A Human-in-the-Loop AI Pipeline for Excavating and Making Use of Latent Design Knowledge - T. Strohmann, L. S. Eckert, D. Heinz, T. Schoormann, C. Hoppe-Ludwig, A. Ixmeier
	Design Beyond the Problem Space: Expanding Design Sciences Temporality - D. Hovorka
	What is a Problem? Criteria and Guidelines for Crafting Research Problems in Design Science - V. Beermann, T. Haskamp, J. Vom Brocke
Senats- saal	General Track
	"Do AI Yourself": Designing a Toolbox to Empower Small- and Medium-Sized Enterprises to Embrace AI-as-a-Service - P. Speckmann, A. van der Staay, M. Markic, Y. Kelch, M. Nebel, J. Poeppebusch, C. Janiesch
	Evidence-Based Design of a Knowledge Chatbot: From Interaction Mechanisms to Design Principles - M. Högemann, I. Pál, O. Thomas
	Designing a Socio-Technical Support System for Reuse in Low-Code Development: An Echeloned Design Science Research Study (RiP) - M. Kampmann, P. A. François, R. Plattfaut, A. Coners
Fest- saal	Future of Responsible and Sustainable Design
	A Digital Twin-Based System to Support Urban Planners in Mitigating the Urban Heat Island Effect - I. Bandaranayake, D. Siemon, R. Gurung
	Design Principles for Trauma-Informed Information Systems for Refugees - O. Ocheredko, D. Siemon, J. T. Hamideh
	Balancing Openness and Security in Digital Energy Ecosystems: A Conceptual Model - T. Kindong, G. Viscusi, B. Johansson

from 19:00 Conference Dinner & Award Ceremony A2

› Wednesday

08:30 – 09:30		Paper Sessions 2 parallel tracks
S01	Future of Design Science Methodology	
	Design Science at Scale: Applying Consortium Research Methodology in Open Source Ecosystems - M. Spiekermann, J. Pampus, B. Otto	
	Fruitfulness in Design Science: Evaluating Contributions by What They Make Possible - R. M. Mueller	
	Dynamic Design Thinking, Building Innovation into the DSR Process (RiP) - F. Johnson, F. K. Johnson	
S02	General Track	
	Multimodal Event Log Construction for Process Mining: Instantiating a Reference Architecture - F. Sturm, A. Liessmann, M. Matzner	
	Customer Contribution-Aware Incident Management: A Problem Space Explication for Digitally Mediated Service Episodes - P. Hottum, D. Heinz	
	Towards a Theory of Performance Measurement System Design - C. Bahr, W. Tang, V. Ulherr, M. Matzner	
09:45 – 10:45		Paper Sessions 2 parallel tracks
S01	Future of Design Science Methodology	
	Toward a Science of the Unexpected: Serendipity as an Epistemic Mechanism in Design Science Research - H. Buysens	
	Design Science Research in the Age of Generative AI: A Systematic Literature Review and Research Agenda - R. Bawack, K. Carillo	
Reuse in Design Science Research: The Example of a Distributed Ledger Technology Design Knowledge Library (RiP) - M. Gräser, R. Alt		
S02	General Track	
	Supporting Information Seeking in Software Development: A Design Theory for Local Retrieval-Augmented Generation Across Distributed Knowledge Sources - F. Horn, M. Wiener	
	Towards a Multi-agent LLM-based Tutoring Tool for Mathematical Argumentation Skills (RiP) - H. Koulani, L. Marchionne, H. Schmidpott-Schulz, A. Eichler, A. Bley, M. Söllner	
	Nascent Design Principles for Human-Machine Interfaces in Airborne Manned-Unmanned Teaming (RiP) - J.-P. Huttner, D. Siemon	
10:45 – 11:00		Coffee Break
11:00 – 12:00		Keynote Ina Sebastian: „Designing Future-Ready Enterprises in the AI Era: Lessons from MIT CISR“ - Foyer / Plenary

12:00 – 13:00		Lunch Break
13:00 – 14:00		Paper Sessions + Demos, Prototypes & Posters
S01	DS Methodology + DS Education	
	Developing Design Principles: Navigating the Design Knowledge Space with a Mode-Based and Abstraction-Aligned Framework - T. Strohmann, R. Winter	
	Fundamental Patterns - A Taxonomy for Archetype Development in Information Systems - C. Koldewey, C. M. Avermeyer, H. van der Valk, J. Zerbin, R. Dumitrescu	
Integration is Key: Designing AI-based Teaching Assistants for ERP Education (RiP) - C. Gillespie, H. Sperling		
S02	Future of Responsible and Sustainable Design	
	Design Principles for Ethical Automated Mental Workload Monitoring in the Industrial Internet of Things - F. Demircan, M. Nebel, C. Janiesch	
Designing Mobile Applications for Spontaneous Volunteers: Insights from a Design Science Research Approach - E. Milutzki, L. Memmert, M. Borchers, R. Zeybek, V. Magdych, M. Semmann, E. A. C. Bittner		
Foyer	Demos, Prototypes & Student Posters (13:45-15:15)	
Walk-in exhibit area with student-track posters and live prototype demos.		
14:15 – 15:15		Paper Sessions 2 parallel tracks
S01	Future of Design Science Education	
	Designing Immersive Game-Based Pretraining for Business Simulations: An Action Design Research Study - A. Wenzel, J.-M. Geiger, A. Liening	
	From Passive Consumption to Creative Engagement: Designing and Evaluating Scaffolded Augmented Reality Authoring - D. Hofmann, K. Hönemann, M. Wiesche	
Redesigning the Master's Thesis for Epistemic Adequacy Using Design Science Research in a Generative AI (LLM)-Supported Context: A Research in Progress (RiP) - S. Kroop		
S02	Future of Responsible and Sustainable Design	
	Green Lean Six Sigma – A Modeling Tool-based Approach - F. Johannsen, H.-G. Fill	
	Circular Transformation: A Design Science Approach to a Digital Assessment System for the Plastics Industry - S. Filippakis, U. Ibrahimli, J. Lambers, L. Wolf, H. Gaedeke, U. Müller-Steinfahrt, A. Winkelmann	
15:30 – 16:30		Conference Closing Ceremony Foyer / Plenary