

SAIL Closing Conference “New Horizons in AI” | Poster Session

Please note that the poster session is divided into two time slots: odd-numbered posters will be presented from 3:30–4:00 pm, and even-numbered posters from 4:10–4:40 pm.

| No. | Speaker | Additional Authors | Title |
|-----|-----------------------------|---|--|
| 01 | Manar Ali | Hendrik Buschmeier, Judith Sieker, Sina Zarriß | Reference Games as a Testbed for the Alignment of Model Uncertainty and Clarification Requests |
| 02 | Clarissa Sabrina Arlinghaus | Günter W. Maier, Salah Seidan, Enes Yigitbas | Does It Hurt Less When the Excluder Is Less Human-Like? A Multi-Study Investigation of Social Exclusion Across Agents and Modalities |
| 03 | Hasina Attaullah | Thorsten Jungeblut | Fair and Efficient Facial Expression Recognition via Knowledge Distillation for Edge Deployment |
| 04 | Nico Baumgart | Markus Lange-Hegermann | Towards semantic product search of electronic components using established international description standards |
| 05 | Milena Belosevic | | Computational Modelling of Common Ground in German Counselling Conversations |
| 06 | Christoph Berganski | Felix Jentzsch, Linus Jungemann, Bjarne Wintermann | FINN+: Towards Hassle-Free Co-Design of FPGA DNN Inference Accelerators |
| 07 | Ananta Raj Bhattarai | Helge Rhodin | Re-Depth Anything: Test-Time Depth Refinement via Self-Supervised Re-lighting |
| 08 | Julian Bültemeier | Jan Ehlenbröker, Christoph-Alexander Holst, Volker Lohweg | Data-Driven Process Understanding in Steel Spring Manufacturing Using Time Series Analysis |
| 09 | Jesper Dannath | Benjamin Paaßen | Simulating Programming Traces and State Spaces using Large Language Models |
| 10 | Hitesh Dhiman | | Feedback interventions in digital task assistance as pathways to meaningful work |
| 11 | Jan Ehlenbröker | Christoph-Alexander Holst, Volker Lohweg | Explainable AI for Human-Centered Quality Control in Plastic Fiber Production |
| 12 | Steffen Fricke | Jürgen Jasperneite | From Intent to Configuration: An LLM Co-Pilot for TSN/5G Networks |
| 13 | Leona Hennig | Jasmin Brandt, Lukas Fehring, Barbara Hammer, Marius Lindauer, Marcel Wever | Provable Sample Cost Reduction in Prior-Guided Hyperparameter Optimization |
| 14 | Michael Hieb | Volker Lohweg | Integrating Multiview Deep Learning Defect Detection with Knowledge Graph-Driven Process Optimization in Injection Molding |
| 15 | Inga Jagemann | Sabrina Hegner, Gerrit Hirschfeld | What Drives Acceptance of AI-Based Skin Cancer Screening Apps? The Role of Trust, Ratings, and Provider Type in an extended TAM |
| 16 | Bjarne Jaster | Martin Kohlhase, Wolfram Schenck, Eiram Mahera Sheikh, Alaa Tharwat | Low Query Budget Active Learning for Classification and Regression |
| 17 | Tristan Kenneweg | Barbara Hammer, Philip Kenneweg | JEPA for RL: Investigating Joint-Embedding Predictive Architectures for Reinforcement Learning |
| 18 | Julian Knaup | Christoph-Alexander Holst, Volker Lohweg | Towards Physically Realistic Adversarial Attacks on Banknote Authentication |
| 19 | Aida Kostikova | | LLLMs: A Data-Driven Survey of Evolving Research on Limitations of Large Language Models |

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| 20 | Tim Wilhelm Kroll | Oliver Kamps, Oliver Mai | Machine Learning Methods for Modeling Complex Dynamical Systems |
| 21 | Kathrin Lammers | Fabian Hinder, Barbara Hammer, Valerie Vaquet | Fairness in a Changing World - Benchmarking and Evaluating Fair Stream Learners |
| 22 | József Lurvig | Hanno Meyer zu Theenhausen, Klaus Neumann | VLM-Driven Zero-Shot Data Augmentation for Autonomous Rail |
| 23 | Ruthika Madhusudhana | Hasina Attaullah, Thorsten Jungeblut, Annika Peters | Towards Cognitive Assessment Through Analysis of Daily Activity Patterns in Smart Home Environments |
| 24 | Thorben Markmann | Barbara Hammer, Hans Harder, Sebastian Peitz, Roshan Samuel, Jörg Schumacher | Spherical Neural Operators for Generative Modeling of Rayleigh-Bénard Convection in Spherical Shells |
| 25 | Adel Memariani | Michael Röder, Axel-Cyrille Ngonga Ngomo | Robustness of Knowledge Graph Embeddings Under Data Perturbations |
| 26 | Ana Alexandra Morim da Silva | | Generating Synthetic Knowledge Graphs for Scalable and Future-Resilient Systems |
| 27 | Tatiana Moteu Ngoli | Axel-Cyrille Ngonga Ngomo, Rene Speck, Hamada Zahera | Neuro-symbolic Knowledge Editing |
| 28 | Sudi Murindanyi | Helge Rhodin | Audio Understanding and Representation Assistant |
| 29 | Kalidasan Nediamparambath | Patrick Gaudl, Christoph-Alexander Holst, Volker Lohweg | Resource-Efficient RAG Assistants for Parkinson's Care: Quantization Strategies for Local Deployment |
| 30 | Daniel Owolabi | Helge Rhodin | Ultrasound Imitation Learning for Robot Control |
| 31 | Keno Pape | | Learning-Based Reference Prediction for Real-Time Model Predictive Motion Cueing |
| 32 | Katharina Pilar von Pilchau | | Identification of flood areas using a data-driven model. A case study for selected catchment areas in the Weserbergland region |
| 33 | Lars Quakernack | | Forecast-based management of sector-coupled systems in distribution grids |
| 34 | Fabian Ridder | Malte Schilling, Laurin Lessel | RAGognizer: Hallucination-Aware Fine-Tuning via Detection Head Integration |
| 35 | Alexandra Schaefer | | Using Sensor Signal Noise to Assess the Performance of Ammonium Sensors in Wastewater Treatment Plants |
| 36 | David Maria Schmidt | Philipp Cimiano | Towards Explainable and Reliable Compositional Behavior in Knowledge Graph Question Answering Systems |
| 37 | Eiram Mahera Sheikh | Wolfram Schenck, Alaa Tharwat | Efficiency–Sustainability Trade-offs in Cellpose Architectures: A Comparative Analysis of U-Net and Transformer-Based Model |
| 38 | Judith Sieker | | Probing Pragmatic Competence in Large Language Models |
| 39 | Sophie Jasmin Spliethoff | Özge Alaçam, Sanne Hoeken, Silke Schwandt, Sina Zarriß | Mapping models in humanities research: How many truths are in ground truth data? |
| 40 | Felix Störck | Barbara Hammer | The Benefits of Forgetting Mechanisms in Non-stationary Reinforcement Learning |
| 41 | Sahana Yadnakudige Subramanya | Michael Röder, Axel-Cyrille Ngonga Ngomo | Automatic Evaluation of RAG: Do We Need an Expensive Judge for Optimization? |
| 42 | Baris Gün Sürmeli | Clemens Ringel, Saleem Al-Dakkak, René Staritzbichler, Helene Dörksen, Thorsten Kaiser | Machine Learning-Based Wrong Blood in Tube Detection under Heterogeneous Analyte Availability |
| 43 | Jörn Tebbe | | Safe Active Learning and Control via Gaussian Processes |

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| 44 | Daphne Theodorakopoulos | Marcel Wever, Marius Lindauer | Dynamic Hyperparameter Importance for Efficient Multi-Objective Optimization |
| 45 | Valeriia Tykhonenko | Mara Brandt, Katharina J. Rohlfing, Mathis Tibbe, Anna-Lisa Vollmer | Designing adaptive AI regarding temperamental differences in children: how shyness shapes interaction with social robots |
| 46 | Stella Katharina Wermuth | Thorsten Jungeblut | Privacy-Enhanced Passenger Monitoring Using Global Image Blurring |
| 47 | Julius Wörner | | Between Models and Data: Towards Diagnosing with Electronic Noses and Machine Learning |
| 48 | Quannian Zhang | | Explainable Benchmarking |