

## **Vortragsankündigung**

Im Rahmen des gemeinsamen Kolloquiums der Informatikwissenschaften der Universität Trier und des Deutschen Forschungszentrums für Künstliche Intelligenz (DFKI) findet am

**11. Juli 2025 um 14:15 Uhr in Raum HZ203**

folgender Vortrag statt:

### **Machine Learning and Generative AI in Business Process Management: Recent Developments and Emerging Challenges**

**Barbara Weber**

**Universität St. Gallen**

This presentation explores the integration of Machine Learning and Generative AI into Business Process Management (BPM), highlighting recent advances and key emerging challenges. Generative AI offers promising opportunities to boost automation efficiency, support conversational BPM, and make process design and analysis more accessible. It also enables creative problem-solving and the use of new data sources. As BPM enters its third wave—centered on data-driven processes—AI technologies such as machine learning and natural language processing are playing a pivotal role in advancing AI-augmented BPM, including areas like process automation and process mining. The talk will provide insights into AI's transformative role in BPM, current developments, and the road ahead.

**About Barbara Weber:** Barbara Weber is Full Professor for Software Systems Programming and Development and Director at the Institute of Computer Science at the University of St. Gallen (HSG), Switzerland since 2019. Since February 2024 she is additionally Vice-President for Studies and Teaching at HSG. Before joining HSG, Barbara held a full professorship at the Technical University of Denmark and led the Section for Software and Process Engineering for 3 years. Before moving to Denmark, Barbara worked for over 15 years for the University of Innsbruck where she started her research career and obtained her doctorate and habilitation degrees. Barbara's research interests include human and cognitive aspects in software and process engineering, process modeling and mining. Together with her team, she focusses on the development and evaluation of software artifacts. This includes topics in the areas of source code analysis, the Internet of Things, and process mining to study and build event-driven software systems that adapt based on the user's behavior and context. On these and other topics, Barbara published around 200 peer-reviewed papers and articles in scientific journals. Barbara is part of the BPM Steering Committee and served as PC chair for BPM 2013, CAiSE 2019, EASE 2021, ICPM 2022 and was general chair of BPM 2015.