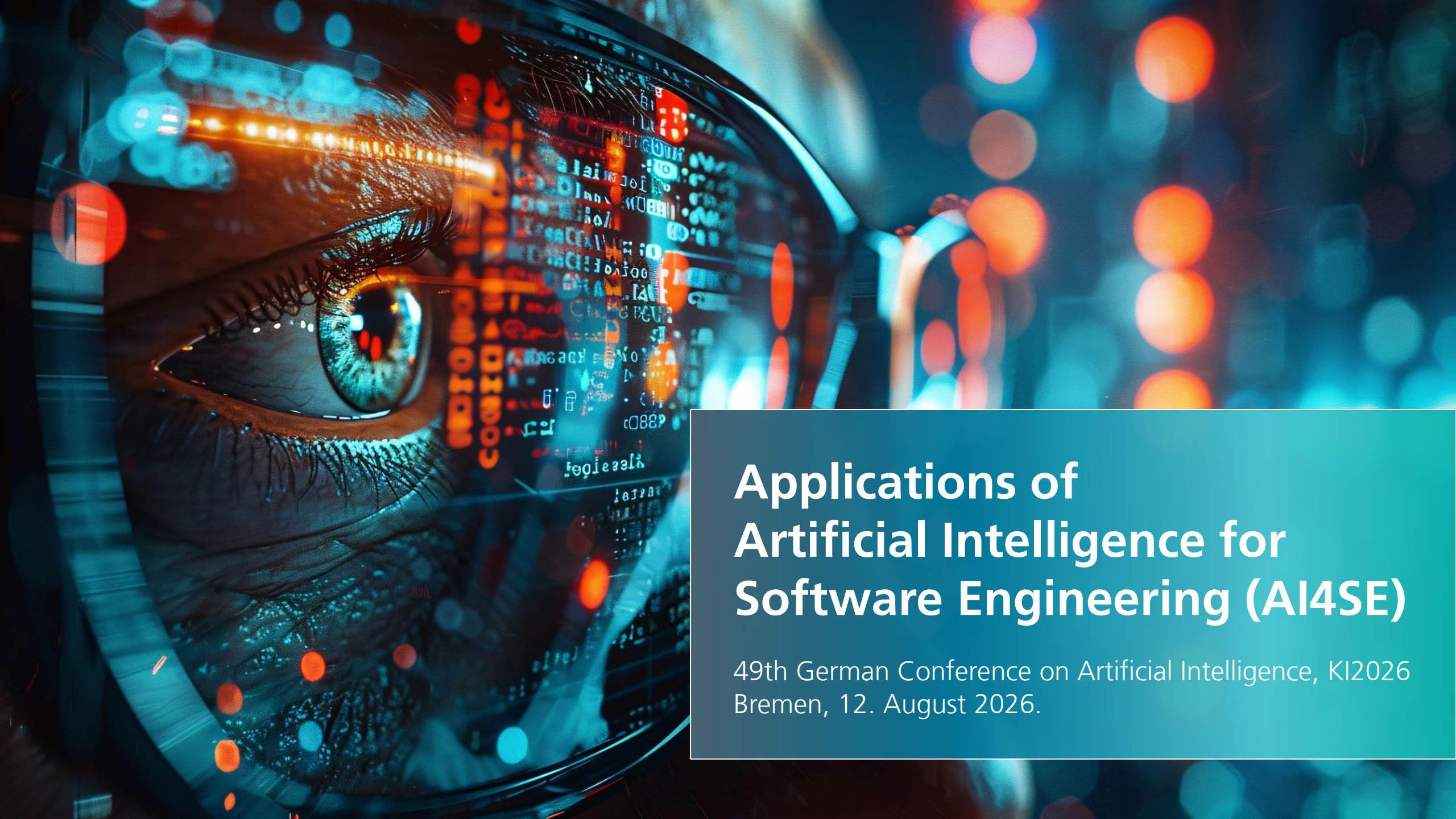




Applications of Artificial Intelligence for Software Engineering (AI4SE)

49th German Conference on Artificial Intelligence, KI2026
Bremen, 12. August 2026.

Welcome & Agenda

Dr. Adam Trendowicz
Dr. Julien Siebert

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Why AI4SE

AI is transforming Software Engineering

- Code generation & automated testing
- Bug detection & fault localization
- Requirements analysis & maintenance

Open questions remain

- Reliability & interpretability
- Trust, adoption, ethics

Workshop Goals

A shared space for AI & SE researchers to:

- Present diverse work
- Discuss innovative ideas
- Surface challenges, limitations, ethical considerations

Today's Program

09:00-10:30 First Session

09:00-09:10 Welcome

09:10-09:35 **Memory-Aware Software Engineering Agents: Architectures, Mechanisms, and Open Gaps.**
– Michael Banf (+Q&A)

09:35-10:00 **DeepQuali: Initial results of a study on the use of large language models for assessing the quality of user stories.**
– Adam Trendowicz (+Q&A)

10:00-10:25 **Failure Localization for Enterprise Text-to-SQL Agents: Lessons from a Production-Representative Financial Case Study.**
– Heeyong Eun (+Q&A)

10:25-11:00 Coffee Break

11:00-12:30 Second Session

11:00–11:25 **Managing the Risks of Adopting the Model Context Protocol.**
– Ben Rymar (+Q&A)

11:25–11:50 **LLM-as-a-Judge for assessing maintainability. First results with a causal approach.**
– Julien Siebert (+Q&A)

11:50–12:30 General Discussion & Wrap-up

Housekeeping

- 20 min talk + 5 min Q&A per paper
- Please keep questions concise
- Coffee break at 10:25 (35 min)
- General discussion at 11:50 (40 min) → bring your ideas!

Thanks

- **Thank you to our reviewers & program committee**
- **Thank you to all authors**
- Let's begin ...

Thank you for your contributions!

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