

## Einladung zum Vortrag

- Vortragende:** Prof. Dr. Sanja Lazarova-Molnar, Professor at the Karlsruhe Institute of Technology (KIT), Karlsruhe / Professor at the University of Southern Denmark (SDU), Odense
- Zeit:** Mittwoch, 09.04.2025, von 11.00 Uhr bis 12.30 Uhr
- Ort:** Raum H005, Gebäude 3
- Thema:** Pieces of the Puzzle Called Digital Twin

### Abstract

Digital Twins are evolving beyond static models into dynamic, data-driven representations that enable continuous monitoring, analysis, and optimization. Building on our foundational work, this talk presents insights into our key research contributions to the concept of Digital Twins.

In particular, the talk will showcase our advancements in the following key areas:

- Use of Process Mining for Data-Driven Modeling, and creating dynamic digital replicas of physical systems.
- Fusion of Data and Expert Knowledge, for enhancing the intelligence and robustness of Digital Twins by combining data with expert insights.
- Validation of Digital Twins: Ensuring model reliability is no more a choice, it is a must in Digital Twins, and it needs to be handled in an appropriate manner.
- Multidimensional Process Mining, as approach for extracting complex system behaviors.

**Interessenten sind herzlich eingeladen.**