

Conference | December 2–3, 2026 | Munich

CALL FOR SPEAKERS

SOFTWARE-IN-THE-LOOP

Factor 10 – Myth or Feasible?

Performance

10x

Why now – why you?

Software-in-the-Loop (SiL) is about to make the leap from a special tool to a central production platform for development and validation. Scaling SiL correctly opens the door to:

- **faster iterations** from idea to release
- **earlier error detection** with measurably higher quality
- **massive cost reductions** through virtual prototypes instead of hardware
- **continuous validation** instead of „big bang tests“
- **interoperability & reusability** across teams, domains and locations
- **Bridges to HiL** into the real world – reproducible, comparable, auditable

Our key question: How do we lift SiL out of pilots and silos and into company-wide value creation?

Topics of Interest

We invite you to submit contributions that are **concrete, relevant and transferable**.

Vision & roadmap: SiL as a standard platform – required architecture and organizational setups.

- **Scaling & operation:** Toolchain scaling (on-premise/cloud), governance, cost models, workforce enablement, change management.
- **Modeling & coverage:** Abstraction levels, scenario-based validation, coverage metrics, orchestration.
- **Interoperability & standards:** Open interfaces, co-simulation, standardization (e.g. FMI/FMU), data models.
- **Bridges between SiL and HiL:** Correlation and transfer of test cases, traceability, safety/compliance.
- **AI & SiL:** Virtual testing of AI-based functions and increasing efficiency through AI in test, analysis and scenario generation.
- **Security, safety, quality:** cybersecurity tests, safety arguments, compliance and auditability of SiL setups.
- **Practice reports & ROI:** KPIs, time and cost effects, lessons learned, anti-patterns, maturity levels.

Submission format

Please submit abstracts in English. Your abstract (300-500 words) should contain:

- | | |
|--|---|
| ➤ Title , author(s), organization, contact | ➤ Maturity & transferability
(pilot → rollout, prerequisites) |
| ➤ Problem/benefit
(what opportunity, what impact?) | ➤ Reference to SiL and HiL
(where appropriate) |
| ➤ Approach/setup
(architecture/toolchain/scaling, standards if applicable) | |
| ➤ Evidence
(KPIs, time/costs, quality metrics, lessons learned) | |

Presentation formats (guidelines):

- **Talk:** 25 min + 5 min Q&A
- **Lightning talk:** 10 min + 5 min Q&A

Please send your abstract to

FB010/42420 | HDT (Haus der Technik e.V.) · Hollestr. 1 · 45127 Essen

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IMPORTANT DATES

All deadlines are 11:59 PM CET.

- Submission deadline: **May 31, 2026**
- Notification of acceptance: **July 1, 2026**
- Program release: **July 10, 2026**
- Final slides/materials due: **November 10, 2026**
- Conference: **December 2–3, 2026**

LANGUAGE AND PERMISSIONS

- Presentation language: English
- Recording/publication: Please indicate at the time of submission whether you grant permission for your slides and/or a video recording of your presentation to be published.

CONFERENCE CHAIRS



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Weitere Informationen online unter
www.hdt.de/VA-00163

