

## Call for Papers – WS06

## Fifth Workshop on Implementing Asset Administration Shells (ImplAAS)

### Organizers and Chairs

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**FOCUS** The Asset Administration Shell (AAS) is a harmonized, digital representation of industrial assets, a foundation for digital twins. With this workshop, we complement ongoing industry driven discussions and standardization activities with a research-oriented format that puts focus on the ongoing development of the AAS, the application of AAS especially in cross-company scenarios, the virtualization of (production) processes, and its integration with other highly important technologies.

### TOPICS

- ❖ Experiences with Asset Administration Shells (for all kinds of assets) in practice
- ❖ Languages for inter-AAS communication and negotiation
- ❖ AI & machine learning supported by AAS
- ❖ Integration of AAS with streaming data and scalability of AAS solutions
- ❖ AAS for Continuous Engineering and virtualization of production processes
- ❖ AAS based plant and data space architectures
- ❖ Maintenance and updating of AAS and AAS meta models over longer time periods
- ❖ Data privacy and data sovereignty with Asset Administration Shells
- ❖ Data Provision and Data Integration for AAS

- ❖ **AIM** ImplAAS is a workshop to discuss research challenges and experiences related to the digital transformation of manufacturing environments with Digital Twins that were created based on AAS. All system domains are welcome. We solicit papers regarding the use, practical implementations, and experiences with AAS and Digital Twins that cover a wide range of research topics with a focus on the digital transformation of manufacturing, process industry, and the digitization of value chains.

### WORKSHOP FORMAT

#### Full day Workshop, based on solicited research papers.

These papers must report significant and innovative research and development results that will have a long-term impact on the field of research, with the potential for implementation. The final manuscripts must comply with the formatting requirements for ETFA 2026, with a page limit of 8 pages. The working language of the conference is English. For submission rules, please refer to the Author's Instruction on the conference website.

Accepted, registered, and presented papers will be copyrighted by IEEE and published in the conference proceedings. The proceedings will be available in the IEEE Xplore Digital Library. The final manuscript must be accompanied by a Workshop registration fee payment proof and it is mandatory that at least one author attends and presents the paper at the Workshop. Failure to adhere to these guidelines may result in paper exclusion from post-conference distribution via IEEE Xplore by the ETFA 2026 Organizing Committee.

For any detail regarding registration to the Workshop, please refer to the ETFA 2026 website.

### AUTHOR'S SCHEDULE (2026)

May 31 Submission deadline

June 19 Acceptance notification

July 4 Deadline for final manuscripts

### Workshop Program Committee

- ❖ Peter Amon, Siemens AG
- ❖ Dr. Cristian Barth, Festo Vertrieb GmbH & Co. KG
- ❖ Andreas Bayha, fortiss GmbH
- ❖ Dr. Holger Eichelberger, Hildesheim University
- ❖ Rene Fischer, Roche Pharma (Schweiz) AG
- ❖ Dr. Sebastian Eicke, Harting GmbH & Co. KG
- ❖ Dr. Ander Garcia Gangoli, VIComTech
- ❖ Prof Dr. Thomas Greiner, Pforzheim University of Applied Sciences
- ❖ Dr. Sten Grüner, ABB AG
- ❖ Prof. Dr. Edmar Candeia Gurjão, University of Campina Grande
- ❖ Dr. Alwin Hoffmann, Xtaso GmbH
- ❖ Prof. Dr. Michael Hoffmeister, Karlsruhe University of Applied Sciences
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- ❖ Dr. Alexandre Maciel, University of Pernambuco
- ❖ Dr. Thiago Weber Martins, SAP AG
- ❖ Dr. Thorben Miny, RWTH Aachen University
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- ❖ Dr. Daniel Porta, DFKI GmbH
- ❖ Prof. Dr. Diego Rativa, University of Pernambuco
- ❖ Maro Ristin, Zurich University of Applied Sciences
- ❖ Markus Rentschler, Arena 2036 GmbH
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- ❖ Siwara Schmitt, Fraunhofer IESE
- ❖ Frank Schnicke, Fraunhofer IESE
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