



Swedish German AI Colloquium AI for Industry 4.0

29 November 2022
15:15 – 16:15

RISE, AI Sweden, KI Bundesverband, DLR Projektträger
<https://www.trippus.net/Swe-Ger-Colloquium-Registration>

Moderated by Åsa Rudström, Ph.D., RISE

29 November 2022

15:15 – 15:25

Opening and welcome notes

Kai Sandmann, Federal Ministry for Economic Affairs and Climate Action
Sarah Schulman, Vinnova

15:25 – 15:45

SALLPI - Smart Automation Living Lab for Process industry Implementation (15 Min.)

Larisa Rizvanovic | RISE

15:45 – 16:05

FabOS - Enabling Seamless AI Development and Deployment in Manufacturing (15 Min.)

Michael Oberle, Lukas Rauh | Fraunhofer IPA

16:05 – 16:15

Open discussions

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SALLPI – Smart Automation Living Lab for Process Industry Implementation

"Smart Automation Living Lab for Process Industry Implementation" creates and runs a cohesive platform for the process industry where other test environments that have specific test directions are integrated. In the SALLPI project researchers collaborate with participants from the process industries, system, and product suppliers to create an environment where open exchange of data and opportunities for easy integration of new technologies are enabled. The project also builds a network of stakeholders that offer test sites, test environments, and test components as part of the environment. As such, the SALLPI project develops an innovative, dynamic, long-term and easily accessible arena that mimics real industrial conditions in a way that is not currently available.

Larisa Rizvanovic is an experienced Senior Scientist with a demonstrated history of working in the research industry. She is skilled in industrial software and has a focus on Internet of Things and Cloud computing for industrial systems. She holds a Licentiate degree focused in Computer Science from Mälardalen University.

FabOS – Enabling Seamless AI Development and Deployment in Manufacturing

Advances in fundamental research on AI methods enable increasingly better solutions for production-related problems. However, the requirements of ongoing manufacturing operations for adopting these solutions are rarely considered. FabOS aims to address these requirements holistically to deliver AI solutions ready for Industrial environments by design. FabOS provides a harmonized integration of all components in the factory and a platform for AI services aligned in an overall architecture streamlining the development and deployment of AI solutions in manufacturing.

Michael Oberle specializes in manufacturing operations management and machine learning operations management and received his degree in Information Systems from the University of Auckland, New Zealand. In 2012, he started working as a researcher at Fraunhofer IPA, Germany. Since then, he has developed and coordinated several research projects with partners from industry and science with a focus on digitalization in the battery manufacturing industry. Since 2020 he has led the group for data and applications services for digital production.

Lukas Rauh is a scientist in the "IT Architectures for Digital Production" group of the "Competence Center Digital Tools for Manufacturing" at Fraunhofer IPA. He is active in the field of IT-based manufacturing systems, including research activities regarding the topics of intelligent compute infrastructure and Machine Learning Operations (MLOps) in manufacturing with the help of Industrial IoT (IIoT). He holds an M.Sc. double degree in "Systems, Controls, and Mechatronics" and is aligned interdisciplinarily to combine the fields of manufacturing informatics and engineering.