文部科学省 卓越大学院プログラム
東京工業大学 超スマート社会卓越教育院
Tokyo Tech Academy for Super Smart Society

Chair of Information and Automation Systems for Process and Material Technology

RWTH AACHEN UNIVERSITY

Pioneering Industry 4.0 Technologies & Smart Robotics - Global Perspectives from the Leading Research Institutes IAT (RWTH Aachen/Germany) and WISE-SSS (Tokyo Tech)

Address: Tokyo Tech, 2 Chome-12-1 Ookayama, Meguro City, Tokyo 152-8550, Japan

Date: 29. February 2024 | Time: 10:30 – 18:00

10:30 – 10:40	**Welcome and Opening**	
10:40 – 11:10	**Introduction of WISE-SSS program**	**Prof. Kei Sakaguchi**
11:00 – 11:40	**Introduction of IAT program**	**Prof. Dr.-Ing. Tobias Kleinert**
11:40 – 13:00	**Lunch**	
13:00 – 14:00	**Presentations from IAT** **1. Asset Administration Shell in a Nutshell and its Applications in Industry** **2. Automatic simulation coupling with a data management platform** **3. A Python-to-Structured Text Compiler with IEC 61131-3 Compliance**	 **Dr.-Ing. Torben Miny** **Tamas Farkas** **Yuanchen Zhao**
14:00 – 14:45	**E-Poster Presentations by Tokyo Tech PHD-students +Q&A**	**See Topics and Presenter listed below**
14:45 – 15:30	**E-Poster Presentations by RWTH Aachen PHD-students +Q&A**	**See Topics and Presenter listed below**
15:30 – 17:30	**Visits to 2 R&E Fields (Smart Robotics Sky, Smart Robotics Aqua)**	**Prof. Takeshi Hatanaka** **Prof. Motomu Nakashima**
17:30 – 18:00	**Wrap Up**	
18:00	**Networking Dinner**	

Date: 01. March 2024 | Time: 10:00 – 12:00

10:00 – 11:00	**Visits to 2 R&E Fields (Smart Robotics Manufacturing and Smart Mobility)**	**Prof. Takeshi Hatanaka** **Prof. Tomohisa Tanaka** **Prof. Yu Tao**
11:00 – 12:00	**Wrap Up and Closing**	

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E-Poster Presentations by RWTH Aachen

1. A Python-to-Structured Text Compiler with IEC 61131-3 Compliance (**Yuanchen Zhao**)
2. Automated Application of Semantic Matching (**Sebastian Heppner**)
3. Automated Identification of Plant Configurations using Process Descriptions provided by Knowledge Based Systems (**Michael Winter**)
4. Automatic simulation coupling with a data management platform (**Tamas Farkas**)
5. Data-based assessment and configuration for field devices of a process plants (**Ramy Hana**)
6. Dynamic component and module integration in process automation (**Shagufta**)
7. General discovery approach with general-purpose query language in the domain of semantic descriptors in industrial automation (**Igor Garmaev**)
8. Metadata-supported Data Provision and Pre-Processing for Data Analytics Applications in the Field of Technical Process (**Wan Li**)
9. Standard concept for the data collection of products throughout their life cycle (**Wei Guo**)

E-Poster Presentations by Tokyo Tech

1. Title not yet defined (**Ragib Amin Nihal**)
2. Title not yet defined (**Tan Sihan**)
3. Title not yet defined (**Ai Yaotian**)
4. Title not yet defined (**Khan Nabeela Khanum**)
5. Title not yet defined (**Wei Junhao**)
6. Title not yet defined (**Takumi Ito**)
7. Title not yet defined (**Taichi Tanaka**)
8. Title not yet defined (**Yuya Okada**)
9. Title not yet defined (**Muhammad Hanif**)

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