

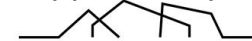
Unveiling Innovations in Industry 4.0 & Reasoning for Intelligence in Productions: Perspectives and Recent Research at IAT (RWTH Aachen/Germany) and SANKEN (Osaka University)

Address:

Osaka University, SANKEN, [Main Hall](#) (1st floor of Admin. Building) and [CReA](#) (2nd floor).
8-1 Mihogaoka, Ibaraki, Osaka. 567-0047 JAPAN

Date: March 6, 2024

Supported By:



DWIH Tokyo



Land der Ideen

09:00 - 09:15	Gathering (at Main Hall , 1 st floor of Admin. Bldg.)	
09:15 - 09:30	Presentation of research fields (SANKEN)	- Prof. Takashi Washio
09:30 - 09:55	Presentation of research fields (IAT)	- Prof. Dr.-Ing. Tobias Kleinert
09:55 - 10:20	Introduction: KOBELCO Future Pioneering Co-Creation Research Center	- Dr. Nobuyuki Tomochika
-- Short break --		
10:30 - 11:10	<u>Research introductions (SANKEN):</u> <ul style="list-style-type: none"> - Multiplicity and stability of knowledge in data science - Robustness and transparency in machine learning - Extract causality from spatio-temporal point process data using Granger Causality 	Speakers: <ul style="list-style-type: none"> - Dr. Satoshi Hara - Dr. Matthew J. Holland - Nat Pavasant
11:10 - 11:50	<u>Research introductions (IAT):</u> <ul style="list-style-type: none"> - Automated Application of Semantic Matching - Metadata-based data provision and pre-processing - Identification of plant configurations 	Speakers: <ul style="list-style-type: none"> - Sebastian Heppner - Wan Li - Michael Winter
11:50 - 12:15	- E-Poster Presentations	- RWTH Aachen PHD-students
Free discussion (with coffee and snacks) at SANKEN CReA (2 nd floor of Admin. Building) (12:15 - 13:30)		

Date: March 7, 2024

09:00 - 10:00 Debriefing and further steps to explore joint research projects

E-Poster Presentations by RWTH Aachen

1. A Python-to-Structured Text Compiler with IEC 61131-3 Compliance (**Yuanchen Zhao**)
2. Automatic simulation coupling with a data management platform (**Tamas Farkas**)
3. Data-based assessment and configuration for field devices of a process plants (**Ramy Hana**)
4. Dynamic component and module integration in process automation (**Shagufta**)
5. General discovery approach with general-purpose query language in the domain of semantic descriptors in industrial automation (**Igor Garmaev**)
6. Standard concept for the data collection of products throughout their life cycle (**Wei Guo**)



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