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Employment

Academic Staff

Chair of Process Control Systems
Technische Universität Dresden
1 Nov 2020 → present

Academic Staff

Faculty of Mechanical Science and Engineering
Technische Universität Dresden
30 Jan 2019 → present

Projects

2021	Lorem ipsum dolor sit amet
2020	Lorem ipsum dolor sit amet
2019	Lorem ipsum dolor sit amet
2018	Lorem ipsum dolor sit amet
2017	Lorem ipsum dolor sit amet

Research outputs

Modularization approach for large-scale electrolysis systems: a review

Lange, H., Klose, A., Beisswenger, L., Erdmann, D. & Urbas, L., 2024, In: Sustainable energy & fuels.

A Prototype for Navigation in Signed Directed Graphs of Chemical Processes

Hamedi, N., Richter, J., Schrank, B., Lischinski, E., Chen, J., Sun, X., Klose, A., & 1 othersUrbas, L., 15 Sept 2023, 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA). IEEE, p. 1-4 4 p. 10275387

Process Control Principles for Scalable Electrolysis Systems

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Transformation of process functions to the Module Type Package utilizing System Control Diagrams

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Towards cloud-based Control-as-a-Service for modular Process Plants

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Automated Evaluation of Biochemical Plant KPIs based on DEXPI Information

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P2O-Lab: A Learning Factory for Digitalization and Modularization

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Technical evaluation of the flexibility of water electrolysis systems to increase energy flexibility: A review
Lange, H., Klose, A., Lippmann, W. & Urbas, L., 15 May 2023, In: International journal of hydrogen energy. 48, 42, p. 15771-15783 13 p.

Cryptographic protocol for privacy-preserving integration of HAZOPs in modular process plants
Chokparova, Z., Becher, K., Klose, A., Strufe, T. & Urbas, L., May 2023, In: Computers & chemical engineering : an international journal of computer applications in chemical engineering. 176, 108295.

Modularisierung in der Prozessindustrie – Bericht von der Achema 2022
Markaj, A., Reiche, L-T., Neuendorf, L., Oeing, J. & Klose, A., 31 Jan 2023, In: Chemie Ingenieur Technik. 95, 6, p. 833-841 9 p.

Flexible Process Control for Scalable Electrolysis Systems
Lorenz, J., Klose, A., Lange, H., Kock, T. & Urbas, L., 2023, (Accepted/In press) 2023 IEEE 3th International Conference on Electrical, Computer and Energy Technologies (ICECET).

Standards for Information Models Considering Knowledge Distribution in Modular Plants
Koch, A., Hamed, N., Furtner, L., Kock, T., Klose, A. & Madler, J., 2023, 2023 IEEE 21st International Conference on Industrial Informatics, INDIN 2023. Dorksen, H., Scanzio, S., Jasperneite, J., Wisniewski, L., Man, K. F., Sauter, T., Seno, L., Trsek, H. & Vyatkin, V. (eds.). Institute of Electrical and Electronics Engineers Inc., p. 1-7 (IEEE International Conference on Industrial Informatics (INDIN), Vol. 2023-July).

Upcoming domains for the MTP and an evaluation of its usability for electrolysis
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Lorenz, J., Reichelt, E., Näke, R., Zschiesche, C., Kureti, S., Mädler, J., Viedt, I., & 2 othersKlose, A. & Urbas, L., 23 Jun 2022, In: Atp-Edition : automatisierungstechnische Praxis. 63, 6-7, p. 82-89 8 p.

Orchestration of modular plants: Procedure and application for orchestration engineering
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Efficient Automation Engineering of Modular Process Equipment Assemblies Using the Digital Twin
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Building Blocks for Flexible Functional Safety in Discrete Manufacturing and Process Industries

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Representing Causal Structures in HAZOP Studies

Klose, A., Kessler, F., Pelzer, F., Rothhaupt, M., Kostiuk, D., Kabashi, A., Forkel, V., & 1 othersUrbas, L., 10 Sept 2021, 2021 26th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) . Wiley-IEEE Press, p. 1-4 4 p. 9613357

Funktionale Sicherheit für modulare Anlagen: Entwurf eines Sicherheitslebenszyklusmodells

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Concepts for safety in modular plants

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Der Weg zum Digital Twin im modularen Anlagenbau mittels MTP und DEXPI Standard

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Safety-Lifecycle of Modular Process Plants - Information Model and Workflow

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Orchestration Requirements for Modular Process Plants in Chemical and Pharmaceutical Industries

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Prizes

Eugen-Hartmann-Preis

Klose, Anselm (Recipient), 27 Jun 2023

Excellent Oral Presentation Certificate

Klose, Anselm (Recipient), 22 Nov 2019