



MINI-SYMPOSIUM AND WORKSHOP ON CIRCULARITY AND DATA SPACES

26th November 2025
IC 6-90, Ruhr-University Bochum
In-person only

Please register here:



Contact:

Dr. Philipp Hagedorn
Ruhr University Bochum
Chair of Computing in Engineering



SFB 1683
Modular Reuse

DFG

Agenda

13:00 – Presentations and Discussion (approx. 2 hours)

TU Eindhoven (TU/e)

Prof. Dr. Ekaterina Petrova

UPSCALE: Decentralized Digital Passports for Tracking, Tracing, and Reuse of Construction and Demolition Waste through Data Spaces

Avinash Ramachandrani

Information Flow in a Minimum Viable Dataspace

Julia Kaltenegger

Multimodal Prediction and Probabilistic Semantic Graph-Based Reasoning for Determining Material Properties in Existing Buildings

Ruhr University Bochum (SFB 1683)

Dr. Philipp Hagedorn

Linking Characterisation, Deconstruction, and Design: A Digital Ecosystem for Sustainable Reuse of Concrete Building Elements

Nina Krautgartner

GIS-Integrated Simulation of Logistics Processes for the Reuse of Structural Concrete Elements

15:00 – Thematic Group Discussions (approx. 2 hours)

Participants from TU Eindhoven:

Dr. Alex Donkers – Ontologies in Data Spaces for Circularity

Dr. Arghavan Akbarieh – Material Pass and Material Banks Using Semantic Web

Dr. Ravi Sharma – Distributed Data Modelling and Federated Digital Twinning

Discussion Topics:

- Ontologies for Material Properties
- Digital Ecosystems and Data Spaces
- Circularity and Required Data Structures

17:00 – End of Workshop