PRO-VE 2023 SPECIAL SESSION

Collaboration in the AECO[1]-sector supported by Digital Twins
Part 1: Open Platforms for Secure, Federated EcoSystems

Scope

The design, construction and operation of buildings and other parts of built infrastructure systems is a highly collaborative task. Various stakeholders are involved in these processes, such as architects, engineers from different disciplines, public authorities, property owners, tenants, facility managers, energy experts, etc. Seamless, reliable, and responsible information sharing is one major pre-requisite for the establishment and efficient execution of collaboration across the different phases of the total life cycle of buildings. Recently, the GAIA-X initiative was launched as a European initiative to establish a "European Approach" for cross-sectorial information sharing aiming to pave the way in a data economy.

This special session will emphasize on the development of 'linked, Secure, Federated EcoSystems' enabling numerous stakeholders from the AECO-sector to maintain data sovereignty over their data whilst sharing this data according to the FAIR-principles with other collaborators. The session invites papers to discuss (i) The information requirements for digital twins in the AECO-sector, (ii) Cutting-edge software architectures for Digital Twins, (iii) Aspects of data governance, data quality and trust in the AECO-sector, and (iv) Examples illustrating how a Digital-Twin-Platform can be used, especially for quality checking of the content of digital twin data models.

Session Organizers

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Topics/ Keywords

- Digital Twins
- Data Governance
- Federated IT-EcoSystems
- Building Information Technology

Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.

Short abstracts submission (100-150 words):	March,27th, 2023
Full papers submission:	April, 24th, 2023
Acceptance Notice:	June, 5th, 2023
Final version Submission:	June 19th, 2023

Acceptance of papers is based on the **full paper** (up to **14** pages). Each paper will be evaluated by three members of the International Program Committee.

When submitting on the web site, you have to indicate the name of the special session.
Submission procedure via Easychair available on: http://www.pro-ve.org, with copy by email to the chairs of the special session.

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[1] AECO: Architecture, Engineering, Construction, and Operation. This acronym summarizes all disciplines collaborating over the complete building life cycle.