



# PRO-VE 2023

24rd IFIP/SOCOLNET Working Conference on Virtual Enterprises  
Resilient and Responsible Collaborative Networks

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## PRO-VE 2023 SPECIAL SESSION

### Collaboration in the AECO<sup>1</sup>-sector supported by Digital Twins Part 2: AI-driven, Collated and Shared Software Services

#### 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. However, currently data and information management in the AECO-sector is perceived as a 'cost factor' instead of an 'enabling feature' for a data economy.

This session addresses the conference theme '*AI and digital transformation for collaborative systems*'. It will discuss how data and information compiled with and acquired from "Digital Twins" can be used to stimulate and support improved collaboration. We invite papers addressing the following aspects (i) Computer Vision for Construction Progress Monitoring and Quality Management, (ii) Using IoT-data to Improve Health and Safety on Construction Sites, (iii) AI to Support Handover and Commissioning of Buildings, and (iv) AI to Improve the Predictability of Prices for Construction Material.

#### Session Organizers

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#### Topics/ Keywords

- Computer Vision
- Sensor-Actuator-Hybridization
- Digital Transformation
- Risk Management and Assessment

#### Submission procedure

Special sessions are included in the main Conference and follow the same reviewing process.  
Short abstracts submission (100-150 words): March, 27<sup>th</sup>, 2023  
Full papers submission: April, 24<sup>th</sup>, 2023  
Acceptance Notice: June, 5<sup>th</sup>, 2023  
Final version Submission: June 19<sup>th</sup>, 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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<sup>1</sup> AECO... This acronym represents Architects, Engineers, COstruction Specialists and Operators, i.e. all disciplines involved in the management of buildings from "cradle to cradle"