

SBE19 Graz



SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019
Graz, 11–14 September 2019

Special Session

Digital Building Technologies

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SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019

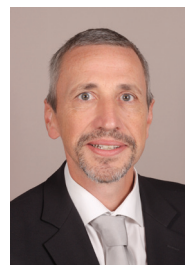
The SUSTAINABLE BUILT ENVIRONMENT D-A-CH CONFERENCE 2019 is part of a major international series of conferences that focus on sustainable buildings and construction. This series, now on a three-year cycle, has become recognized as the world's preeminent conference series in this important field. Graz University of Technology will host the SBE19 in co-operation with University of Natural Resources and Life Sciences, Vienna, Karlsruhe Institute of Technology and ETH Zürich. Within this conference several Special Sessions are organized.

Objective of this Special Session

Building automation, digital building models and data analytics are three aspects of the digital transformation in the context of modern buildings. Research is needed in the optimization of building optimization system toward better integration of components from different domains and easier maintenance of building service equipment. Digital building models are created during planning and contain highly structured semantic information about building physics and building systems, and are therefore a valuable asset for operation. However, the integration of planning processes, construction and facility management still has many gaps, which should be addresses in theory and practice. Finally, the operation data, which is collected in an automated building, requires advanced methods of data science to identify problems and optimization potentials.

This special session seeks scientific contributions in the following areas:

- Operation data analytics of buildings and building services
- Semantic technologies for buildings
- Cloud services for smart buildings
- Convergence and interoperability topics
- Digital Building Twin: Building Information Modeling (BIM) and its impact on building operation
- Buildings and their integration into the smart grid world
- Internet of Buildings
- Smart home devices
- Sensor technologies
- Human System Interaction (HSI)



Submitting Abstracts

Authors willing to present a paper at this Special Session are kindly invited to submit a 150 - 250 word abstract in accordance with the topic until **30 November 2018** through the online submission system available on sbe19.tugraz.at. Please indicate in the submission system that you would like to submit an abstract to this particular Special Session.

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In Cooperation with:

ETH zürich



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