

SBE19 Graz



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

Special Session

Systemic Consideration of Uncertainties in Life-Cycle Analyses

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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.

Keywords and Objective of this Special Session

Decision making; simulation; systematic consideration of uncertainties; chance/risk ratio; management of chances and risks; risk; chance; probability; ranges; forecasts; life-cycle costs; life-cycle analyses; quality; time; cost; quantity; susceptibility to disruptions; project process quality; distribution functions; data, information and knowledge; data collection; data fitting



Life-cycle cost calculations incorporate elements of costing and capital budgeting. A number of different methods and approaches are applied to these long-term projections owing to varying development parameters and underlying conditions relevant to life-cycle analyses, such as service lives and system limits. Calculated results of life-cycle costing models permit conclusions with respect to the commercial viability of the project under consideration whilst taking account of all forecast income and expense items.

This special session will present state-of-the-art methods and tools for life-cycle analyses and calculations. It will also discuss latest research findings and hands-on examples as well as the application of new assessment and calculation methods, such as Monte Carlo simulations.

Attendees of this session will:

- learn more about state-of-the-art methods and tools for life-cycle analyses
- get to know findings of latest research projects
- learn how to deal with uncertainties applying life-cycle analyses
- have the opportunity to discuss their experience with leading experts in this field of research

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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