

IALCCE 2020

The Seventh International Symposium on Life-Cycle Civil Engineering

27-30 October 2020, Shanghai, China



IALCCE 2020

*The Seventh International Symposium on
Life-Cycle Civil Engineering*

Nowadays, people have realized the importance of creating a sustainable society to avoid or alleviate problems like climate change, environmental pollution or economic crisis. Therefore, the life-cycle thinking of civil engineering is discussed more and more frequently.

Civil engineering is mainly focused on design and construction during the past days, but contemporary society needs civil engineering to pay attention to more aspects, such as inspection, monitoring, repair, maintenance and optimal management of structures and infrastructures, in order to effectively manage the function of these structures throughout their lifetime. Considering these needs, the objective of the International Association for Life-Cycle Civil Engineering (IALCCE) is to promote international cooperation in this field of expertise to enhance the welfare of society. Its mission is to become the premier international organization for the advancement of the life-cycle civil engineering.

Previous editions of the bi-annual IALCCE symposium took place in Varenna, Lake Como (2008), Taipei (2010), Vienna (2012), Tokyo (2014), Delft (2016) and Ghent (2018). The Seventh International Symposium on Life Cycle Civil Engineering (IALCCE 2020) will be organized on behalf of IALCCE under the auspices of Tongji University in Shanghai (China) on October 27-30, 2020.

All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools.

We are looking forward to welcome all of you in Shanghai in 2020!

Special Session SS-8:

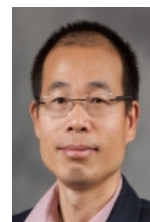
Planning Risk Reducing Interventions on Infrastructure Networks

Objective of the Special Session SS-8



Bryan T. Adey

Swiss Federal Institute of Technology, Zurich
Zurich, Switzerland



Arnold (X.-X.) Yuan

Ryerson University
Toronto, Canada

Infrastructure managers are responsible for executing interventions to reduce infrastructure-related risks. To plan these interventions, they need to estimate the risk related to all of their infrastructure assets, taking into consideration all hazards that might affect them, all ways they may fail, and all consequences of these failures. This MS/SS contains presentations of work focused on the integration of risk information into the planning of interventions on infrastructure networks, with special focus on the consideration of the spatial and temporal aspects of system behavior, and the amalgamation of the results of wide range of risk assessment methods.