

# IALCCE 2020

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

27-30 October 2020, Shanghai, China



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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!

### Mini-Symposium MS-5:

Risk and Resilience-informed Structural Design and Management under Multiple Hazards in a Life-Cycle Context

### Objective of the Mini-Symposium MS-5



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Due to the frequent occurrence of hazards and their effects on life-cycle performance, sustainability, risk, and resilience issues have become increasingly important. Considering climate change effects, hazard intensity and probability of simultaneous occurrence of multiple hazards are expected to increase. This mini-symposium brings together researchers from academia and industry to address problems of structural design, safety, and management under multiple natural hazards in a life-cycle context. Potential topics include: vulnerability and risk assessment, performance-based engineering, and hazard mitigation and management. Emphasis will be placed on topics dealing with effects of multiple hazards, climate change, risk assessment, cost-benefit analysis of adaptation, and life-cycle engineering. Practitioners as well as researchers in the areas of structural and sustainable engineering are encouraged to participate.