

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-9: Value Protection of Built Environment

Objective of the Mini-Symposium MS-9



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Keeping the function of buildings and infrastructures uninterrupted is of significance to their long-term service performance. As buildings and infrastructures are influenced by environment all the time, it is necessary to study the characteristics of environment and its possible effect on buildings and infrastructures. The concept of Value Protection of built environment deals with a number of uncertainties related to life-cycle and risk assessment and represents an interesting issue both for new buildings and infrastructures and for existing ones. For engineers as well as for any stakeholders involved in constructions process, this topic represents a real key-feature for a sustainable development, especially for seismic areas and, in general, for areas/single constructions exposed to extreme events (natural or caused by humans).

The aim of this Mini-Symposia is to bring together researchers in related field to share their accomplishments, findings and ideas. Contributions on but not limited to Value Protection, life-cycle management, sustainable development, and effect of extreme events on buildings and infrastructures are welcome.