

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-15:

Tunnel Life-Cycle Management and Application

Objective of the Mini-Symposium MS-15



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Tunnel is a typical traffic infrastructure, which is more complex than other infrastructures such as highway and bridge, because of the variety of equipment and complex spatial structure. Thus, there are many challenges in life cycle management of tunnel.

This Symposia will invite five speakers to introduce the newest research result from automatic inspection and analysis technology of tunnel defects, tunnel spatio-temporal data organization, life-cycle oriented Operation & Management information platform framework and the data-driven tunnel life-cycle evaluation and decision-making. Meanwhile, this symposia will also discuss the application effect of these technologies in Hangzhou Wenyi Road Underpass and Shanghai Dalian Road Tunnel.