

# 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-14:

Advances in State of the Art, of the Practice and Code Implementations,  
in Assessment, Simulation, and Retrofit of Aged Infrastructures

### Objective of the Mini-Symposium MS-14



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Transportation networks, including bridges, railways, tunnels, subways, utilities, dams, pipelines, power transmission systems, communication networks, etc. are fundamental for the economy in all the world. Unfortunately, in most of the countries, a big amount of them is reaching the end of their nominal life due to deterioration of the construction materials and in particular of corroded rebars in reinforced concrete structures. This Mini-Symposium aims to share the recent advances and code implementations in assessing, simulation, repair and retrofit of aged infrastructures. It is intended to cover the following key topics (but not limited to): monitoring, identification, assessing of corrosion, material deterioration, modelling, codes, repairs and retrofitting strategies, techniques to reduce corrosion.