

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!

Mini-Symposium MS-4:

Time-Dependent Reliability of Reinforced Concrete Structures

Objective of the Mini-Symposium MS-4



Jie Li
Tongji University
Shanghai, China



Xiangling Gao
Tongji University
Shanghai, China



Xiaodan Ren
Tongji University
Shanghai, China

Reinforced concrete (RC) structure has been extensively used in the civil engineering. However, owe to the corrosive medium in the atmosphere, underground water, sea water and deicing salt, durability and bearing capacity of the reinforced concrete structure are facing challenge. The service year of the RC structure cannot satisfy the designed service life. To this end, models and methods to describe the performance of concrete, steel bar and time-dependent reliability during structural life-cycle is the main topic. Those who have been working on related fields are cordially invited to exchange their ideas and research outcome in this mini symposium.