

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-2:

Life-Cycle Performance Assessment of Civil Engineering Systems

Objective of the Mini-Symposium MS-2



Mitsuyoshi Akiyama
Waseda University
Tokyo, Japan



Dan M. Frangopol
Lehigh University
Bethlehem, USA



Hiroshi Matsuzaki
Tohoku University
Sendai, Japan

The aim of this Mini-Symposium is to attract papers that deal with the use of advanced computational and/or experimental techniques for evaluating the life-cycle performance of aging structures and infrastructures in an aggressive environment. For these structures, multiple environmental and mechanical stressors lead to deterioration of structural performance. Such deterioration will reduce their service life and increase the life-cycle cost associated with maintenance actions. This Mini-Symposium covers current theoretical and experimental efforts made in the assessment and future prediction of performance, maintenance and strengthening of structures and infrastructures in an aggressive environment.