IALCCE 2020

The Seventh International Symposium on Life-Cycle Civil Engineering

27-30 October 2020, Shanghai, China



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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!

Special Session SS-16:

High Performance Materials in Bridge Engineering

Objective of the Special Session SS-16



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High performance materials in bridge engineering involve high performance steels (HPS), weathering steel, high strength bridge cables, UHPC/UHPFRC, CFRP/GFRP, etc. The application of high performance materials in both new bridge construction and reinforcement of existing bridges will improve life-cycle bridge performance in terms of durability and economy, resulting in sustainable and environmentally friendly bridges. This session aims to the optimal design, performance study and engineering practice for application of high performance materials in bridges which are related but not limited to the following topics:

• Performance study and optimal design of high performance bridge structures

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- Application of high performance materials in bridge reinforcement
- Long-term performance of high strength bridge cables
- Other application of high performance materials in bridge engineering.