

# IALCCE 2020

## The Seventh International Symposium on Life-Cycle Civil Engineering

27-30 October 2020, Shanghai, China



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*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!

### Special Session SS-2:

#### Structural Health Monitoring for Performance Assessment: Theory and Applications

### Objective of the Special Session SS-2



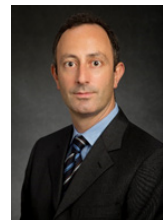
**Jiazeng Shan**  
Tongji University  
Shanghai, China



**Chia-Ming Chang**  
National Taiwan University  
Taiwan, China



**Maria Pina Limongelli**  
Politecnico di Milano  
Milan, Italy



**Paolo Gardoni**  
University of Illinois  
at Urbana-Champaign  
Illinois, USA

In recent years, infrastructure deteriorations and failures induced by natural hazards have drastically increased, due to the combination of a lack of adequate maintenance and disastrous events.

Structural Health Monitoring (SHM) can actively address these issues, contributing to the essential understanding of real-world behavior, validation of design assumptions, establishment of baseline modeling, assessment of structural performances and support of life-cycle management.

The aim of this Mini-Symposia is to bring together experts in SHM systems, performance assessment and risk management in various fields, in order to share knowledge and ideas and to foster future collaborations.

Contributions on SHM-supported performance assessments of structures and infrastructures are welcome, with the focus on both the theoretical progress and on real-world implementations.