

# 2021 Future-Shaping ACE (Architecture, Civil, and Environment) Congress

August 23-26, 2021

## Location

B102 New Engineering Hall, Korea University  
(On site event with Zoom Webinar for online participants)

Online pre-registration begins at July 20, 2021

Registration access [bit.ly/acecongress2021](https://bit.ly/acecongress2021)

(No registration fee)



Organized by



4단계 BK21 건축사회환경공학교육연구단  
BK21 FOUR R&E Center for  
Civil, Environmental and Architectural Engineering



Future and Fusion Lab of  
Architectural, Civil and  
Environmental Engineering

# 2021 Future-Shaping ACE (Architecture, Civil, and Environment) Congress

## About the Congress

This congress aims to offer a multi-disciplinary platform for researchers in architectural, civil, and environmental engineering to address important global challenges for shaping our future cities. During the four-day event, a series of sessions will cover a broad spectrum of key topics relating to buildings and infrastructure. They will provide opportunities for researchers across the world to share on-going research progress, discuss major research challenges, and initiate international research collaborations.

## Welcome Message



Youngkyu Ju  
Director of BK21 FOUR  
R&E Center

On behalf of the Organizing Committee, it is my great pleasure to have this opportunity to welcome you all to Seoul, Korea to participate in the 1st ACE Congress. The main objective of this congress is to provide an international forum for presentation of recent advances on various aspects of architectural, civil and environmental engineering and its applications. I would like to take this opportunity to express my deepest gratitude to the members of the Local Organizing Committee for their valuable contributions and hard work. Special thanks are due to plenary speakers and program organizers for their hard work which will make the Congress successful, to all delegates for their support and participation. I wish you to cherish the memories of this special event and have a very pleasant and wonderful time during the Congress, Korea.



Joong Hoon Kim  
Korea University

## Plenary Lecture "Bridging the Construction Engineering with Optimization"

Professor Joong Hoon Kim has served as the dean at the College of Engineering of Korea University during 2018 and 2020. He is a member of National Academy of Engineering of Korea. He has made significant contribution in the areas of optimal design and management of water distribution systems, application of optimization techniques to various engineering problems, and development and application of evolutionary algorithms. His group had developed an optimization algorithm named the Harmony Search algorithm, which has attracted a great interest. The original paper of the algorithm has been cited for more than 5,900 times according to Google Scholar.

## Themes

August 23

Sustainable Water & Ecosystems

August 24

Smart Construction and Mobility

August 25

Energy Systems

August 26

Resilient Built Environment

## External Invited Speakers



Sally Thompson  
University of Western Australia



Edoardo Daly  
Monash University



Pedro J. J. Alvarez  
Rice University



Jae-Hong Kim  
Yale University



Timu Gallien  
University of California



Sasan Tavakkol  
Celeris Lab. LLC



Samer Hamdar  
George Washington University



Jiwon Kim  
University of Queensland



Hwasoo Yeo  
KAIST



Bon-Gang Hwang  
National University of Singapore



Jin Ouk Choi  
University of Nevada, Las Vegas



Yong-Woo Kim  
University of Washington



Seigo Ito  
University of Hyogo



Hairen Tan  
Nanjing University



Steve Yim  
Nanyang Technological University



Chao Yuan  
National University of Singapore



Shengwei Wang  
Hong Kong Polytechnic University



Hangxin Li  
Hong Kong Polytechnic University



Jeong-Hoon Song  
University of Colorado Boulder



Do Kyun Kim  
Newcastle University



Timon Rabczuk  
Bauhaus University



Keh-Jian Shou  
National Chung-Hsing University



Carlos Santamarina  
KAUST



Askar Zhussupbekov  
Eurasian National University



Hyung-Joon Seo  
University of Liverpool



Guillermo A. Narsilio  
University of Melbourne

## Local Organizing Committee

- Youngkyu Ju (tallsite@korea.ac.kr)
- Kyungrock Paik (paik@korea.ac.kr)
- Seungmo Kang (s\_kang@korea.ac.kr)
- Yeonsook Heo (yeonsookheo@korea.ac.kr)
- Seungjun Kim (rocksmell@korea.ac.kr)

## Congress Office

- Hyunji Kwon (khj1681@korea.ac.kr)
- Eunjin Park (dmswls1105@korea.ac.kr)

307B New Engineering Hall, 145 Anam-ro, Seongbuk-gu, Seoul, South Korea  
Tel: +82-2-3270-4760, 4767