

CIVIL-COMP 2023
The Seventeenth International Conference on
Civil, Structural and Environmental Engineering Computing
28-31 August 2023
Pécs, Hungary

Special Session: CC-S5

3D Printed Concrete and Concrete Structures

Organizers:

Prof. **Yong Yuan**, Department of Geotechnical Engineering, Tongji University, Shanghai, China. Email: yuany@tongji.edu.cn

Prof. **Bernhard L.A. Pichler**, Institute for Mechanics of Materials and Structures, TU Wien, Vienna, Austria.

Email: Bernhard.Pichler@tuwien.ac.at

Dr. **Jiao-Long Zhang**, Department of Geotechnical Engineering, Tongji University, Shanghai, China. Email: Jiaolong_Zhang@tongji.edu.cn

Aims and Scope:

3D printed concrete and concrete structures have drawn great attention of scientists in the field of civil engineering. Great efforts have been put into development of printable concrete and printing equipment, research on printed components and structures, and applications to large-scale structures. Combining automated equipment with advanced computational methods, 3D printing technology exhibits promises in structural optimization, elaborate constructions reducing redundancy, and intelligent construction under extreme conditions.

This special session aims to invite global experts to present the frontiers of the development of 3D printed concrete and concrete structures. It will provide a golden opportunity to discuss several relevant topics, e.g. mix design of printable concrete, development of printing equipment, material properties of 3D printed concrete, structural behavior of 3D printed structures or elements, structural optimization based on 3D printed concrete, repairing of structures by using 3D printing concrete, innovative applications of 3D printed concrete, modeling of the printing process, 3D printing concrete, and of printed structures.