

## Special Issue

# Advanced Technologies in Construction and Infrastructure: Theory, Methods and Applications

### Message from the Guest Editors

The scope of this Special Issue covers innovative technology applications in construction and infrastructure. It also presents theory, methods, and cases of new technologies. New construction technologies can allow the relevant academics and those working in industry to conduct more innovative, faster, and more sustainable projects. Construction technology is a collective terminology that includes many different types of innovations. Cutting-edge ideas and methods will be the main focus of this issue, and the practical and theoretical topics associated with construction technology will also be a core area of this Special Issue. Topics of interest include, but are not limited to, the following:

- Innovation in buildings, civil, and infrastructure engineering
- Virtual Technologies, including BIM, AR, VR, and the Metaverse
- Artificial Intelligence (AI) and construction robotics
- Offsite construction and design for manufacture and assembly
- Renewable energy and power plant construction
- Smart database and cloud communication in supply chains
- Blockchain and information security
- Unmanned aerial vehicles
- Additive technology and 3DP construction
- Data-driven analysis in construction

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### Guest Editors

Prof. Dr. Joo-Sung Lee

Dr. Zhen Lei

Prof. Dr. Kyubyung Kang

Prof. Dr. Sungkon Moon

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### Deadline for manuscript submissions

closed (31 March 2024)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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