

Special Issue

Computational and Technological Advancements for Low-Carbon Structures

Message from the Guest Editors

The architectural engineering and construction (AEC) industry is currently responsible for a huge part of the critical environmental damage which includes global carbon emission, ecosystem pollution, and harmful resource depletion. On the other hand, globalisation is diminishing the sustainable domestic technologies that have historically been developed based on the local materials and labour forces. Therefore, to meet sustainable development goals, we urgently need to change our engineering approach in either designing new constructions or maintaining existing buildings, including preserving our built heritage. Towards this goal, in the last few years, low-carbon materials have become of increasing interest to construction practitioners, and maximisation of their mechanical and physical performances at micro-(e.g., composite materials) and macrolevels (e.g., form-active structures) have been taken into consideration. On the other hand, recent advancements in construction technologies including transformations in digital manufacturing and construction techniques have enabled us to build with minimum construction waste and environmental impact.

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