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Additive Manufacturing Technologies for Sustainable Digital Construction

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Message from the Guest Editors

The construction industry plays an important role in addressing global challenges regarding climate protection and limited resources. This will push future demand for materials and energy. In this context, additive manufacturing is of particular importance, as it enables the application of novel design principles and the intelligent and efficient use of materials and resources. Thus, the implementation of additive manufacturing in construction could significantly reduce material usage and help to transform the building industry into sustainable digital construction.

This Special Issue aims to provide a forum for the discussion of additive manufacturing technologies. The aim is to facilitate a cross-material and cross-process discussion that takes into account aspects of materials science, process engineering, structural design, process control, construction site processes, and large-scale applications in practice. Furthermore, innovative ideas and strategies for the digital control of planning, construction, and operation of buildings through artificial intelligence or machine learning for sustainable digital construction are also welcome.

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Message from the Editor-in-Chief

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