

Special Issue

Sustainable Construction: 3D Printing and Material Recycling

Message from the Guest Editors

Dear Colleagues: The construction sector is considered one of the largest sectors of the economy and plays a crucial role in our daily lives. However, unlike other sectors, especially the industrial sector, which has witnessed significant changes in processes and productivity due to the use of new technologies such as robotics, digitalization, and artificial intelligence, the construction sector has lagged behind considerably in the introduction of these technological advances. As a result, its productivity is relatively low or even decreased compared to other sectors. Currently, environmental (emission of gases related to the construction sector), social (need for new housing), and economic (construction cost and time) issues make changes in the manufacturing processes of this sector a priority. To deal with these issues, 3D printing of concrete and Materials Recycling, have become an attractive solution in recent years. These solutions should help in achieving socio-economic performance and ecological pollution reduction. Indeed, construction based on 3D concrete printing and Material Recycling offer several advantages.

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