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Building Information Modeling/Management (BIM) Driven Circular Economy

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Message from the Guest Editors

Dear Colleagues,

As the backbone of the fourth industrial revolution, the digital economy (DE) is considered to have a disruptive effect, in which Building Information Management has played a crucial role in building industry. Since, the COVID-19 epidemic has severely negatively affected the global economy, environment, and society, DE are receiving high attention from policy makers, practitioners, and scholars around the world. Currently, in post epidemic, digital technology, such as Building Information Modeling, has great potential in promoting sustainable development via Circular Economy (CE) approach. Accelerating the integration and innovation of Building Information Modeling/Management (BIM) with other technologies and aspects can trigger multi-sphere, multi-dimensional breakthroughs for sustainable development. The aim of this Special Issue is to suggest cases and recommend technologies and policies for the transition of emerging theory and practice of Building Information Modeling/Management (BIM) driven CE towards sustainable development in architecture, building, engineering, and construction industry.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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