Special Issue

Research on Construction Innovation and Digitization

Message from the Guest Editors

Construction management faces new challenges given the popularity of digital construction, innovative project delivery methods, emerging technologies in design and construction, and computer-assisted construction management. Project management has become more complex, and it requires advanced models and technology to improve the quality and efficiency of design, construction, operation, and maintenance of buildings. Computer technologies incorporate various processes, software, and hardware that could be used in different phases of a building life cycle. It is urgent to propose solutions through research and practice, to improve the traditional project management theory, and to accommodate the complex project management. This Special Issue aims to publish high-quality research papers on the inter-disciplinary field of ICTs and computer applications in construction management. We look forward to receiving your papers! Dr. Ying-nan Yang

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About the Journal

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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