

Special Issue

Building Information Technologies and Building Energy Optimization

Message from the Guest Editors

Smart cities and smart buildings have been regarded as new growth engines for the future of the architecture, engineering, and construction (AEC) industry. Smart cities and buildings integrate information and communication technology (ICT), including internet of things (IoT) networks, building information modeling (BIM), big data analytics, knowledge discovery, augmented reality (AR), virtual reality (VR), etc. The integration of ICTs aims to enhance operational efficiency, performance, interoperability, communication, and service quality, and to reduce costs, resources, and risks in design, construction, operation, and maintenance, as well as the eventual dismantling and regeneration of facilities, infrastructures, and cities. This Special Issue especially focuses on how the integration of ICTs could optimize the energy performance and sustainability of smart cities and buildings.

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