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Study of Building Detection, Assessment, and Management: Based on Computer and Information Technologies

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Deadline for manuscript submissions:
closed (20 October 2024)

Message from the Guest Editors

Dear Colleagues,

We are excited to announce a Special Issue of *Buildings* that focuses specifically on the application of computer and information technologies in the field of building detection, assessment, and management.

Computer and information technology can automate the process of building detection, assessment, and management, which is essential for ensuring safety and efficiency in various domains. However, applying these technologies in complex and dynamic environments poses new challenges and risks that require innovative solutions and methods. To address these issues, this Special Issue invites original research on the utilization of computer and information technology in building detection, assessment, and management, with a focus on the progress, methodologies, and practical applications that drive innovation in this particular field.

Topics of interest include, but are not limited to, the following:

- Automated building detection;
- Advanced building assessment techniques;
- Intelligent building management systems;
- Data integration and decision support systems;
- Real-time monitoring and emergency response.

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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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