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Damage Detection Based on Smartphones in Buildings

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

In this Special Issue, we invite you to contribute original research articles and reviews on any aspects related to smartphone-based damage detection of buildings, including but not limited to:

Structural health monitoring, damage detection, diagnosis and characterisation of damage of building; in situ field test methods, nondestructive techniques, laboratory tests and analysis; Simulation and modelling: deep learning and finite element models; Digitalisation and documentation, mobile crowd sensing, data bases; New methodologies, digital and innovative technologies, building information modelling (BIM).

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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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