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Intelligent Building Health Monitoring and Assessment

Guest Editors:

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Deadline for manuscript submissions:
closed (7 July 2023)

Message from the Guest Editors

The accelerated integration and convergence of civil engineering, materials science, and artificial intelligence have inspired researchers from diversified disciplines to become interested in the challenges of the emerging bridge-state perception methods. Research on intelligent monitoring and assessment in building structures has made significant progress in both theoretical investigations and practical applications.

The focus of this Special Issue includes several theoretical and practical problems related to new discoveries, innovative ideas, and improvements in the intelligent monitoring and assessment of bridge health. The topics of this Special Issue include, but are not limited to, the following topics: structural health monitoring, nondestructive testing, artificial intelligence, damage identification, computer vision-based techniques, structure condition assessment, load identification, and data analysis.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/95O46H6PY7

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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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