



Assessment, Diagnosis and Service Life Prediction

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Message from the Guest Editor

Dear Colleagues,

Service life prediction is crucial for the adoption of more sustainable solutions, allowing optimizing the costs and environmental impact of buildings during their life cycle. Accurate assessment of the service life of buildings requires a thorough understanding of degradation mechanisms and material's behavior. Building pathology assessment methods allow characterizing the deterioration state of the buildings and their components, using as indicators specific measurable properties. Based on this information, different service life prediction methodologies can be defined,[...]

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

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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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