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Open Issues in Building Conservation

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Deadline for manuscript submissions:
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Message from the Guest Editors

This special section aims to explore how civil engineering techniques, principles, and innovations contribute to the protection, restoration, and interpretation of cultural heritage sites worldwide. Main topics to be included:

- Historical Structure Preservation: This topic focuses on the techniques and methodologies employed by civil engineers to preserve and restore historical buildings, monuments, and archaeological sites. It covers aspects such as structural assessments, material conservation like composites (FRP, FRCM, TRM, SRG, etc.), and adaptive reuse strategies.
- Infrastructure Adaptation: Civil engineers often encounter the challenge of integrating modern infrastructure with existing cultural heritage sites while preserving their integrity. This section examines case studies and best practices for adapting infrastructure projects to mitigate their impact on cultural heritage.
- Case Studies and Success Stories: Finally, this section presents compelling case studies and success stories that highlight the transformative impact of civil engineering on preserving and promoting cultural heritage.

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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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