



## Novel Approaches and Technologies for Conservation of Heritage Buildings

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### Message from the Guest Editors

Heritage buildings are the tangible heredity of our culture, history, and roots, and now it is our charge to leave them to posterity.

The conservation of heritage buildings has strong constraints when devising remedial measures and intervention techniques because the “integrity” and “authenticity” of the building must be preserved and the “vulnerability” must be reduced. In particular, when considering the vulnerability of a heritage building, it is important to distinguish between the “intrinsic vulnerability” and the “induced vulnerability”. A proper conservation process requires the knowledge of the original construction materials (stone, earth, wood) and building techniques.

The common lack of design or documents regarding heritage buildings necessitates defining the masonry apparatus and structure through nondestructive investigation techniques (NDT) of indirect type (photogrammetry, laser scan, thermography, georadar, sonic/ultrasonic tomography, seismic survey) or weakly destructive direct inspections.

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