





an Open Access Journal by MDPI

Structural Health Monitoring of Historical Buildings

Guest Editors:

Dr. Andrea Meoni

Department of Civil and Environmental Engineering, University of Perugia, Perugia, Italy

Dr. Giacomo Zini

Department of Civil and Environmental Engineering, University of Florence, Florence, Italy

Dr. Enrique García Macías

Department of Structural Mechanics and Hydraulic Engineering, University of Granada, 18001 Granada, Spain

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Historical buildings such as churches, towers, and palaces represent a large component of European cultural and monumental heritage. As it is well known, most of these constructions are characterized by masonry load-bearing structures designed to withstand only gravity loads, with very limited earthquake resistance capacity. As a result, historical buildings are particularly prone to structural pathologies typically caused by differential foundation settlements, excessive live loads, and natural hazards such as seismic events. Inadequate maintenance policies and the normal aging of building materials represent common aspects of the causes of the premature collapse of historic buildings.

The growing awareness among citizens and administrations on the critical role of cultural heritage constructions within the tourism industry and related sectors, as well as their historical and artistic values, has motivated the more frequent implementation of structural health monitoring approaches. This Special Issue aims to collect original full papers, review articles, and short communications highlighting the latest advances in research on SHM applications to historical buildings.



