**Seismic Evaluation and Structural Health Monitoring of Heritage Buildings: A review of case studies in Peru**

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The talk will present the application of innovative strategies for performing structural evaluation and long-term structural health monitoring of historical adobe buildings located in South America. The application of a combined strategy using experimental and numerical tools to assess the structural behavior of these buildings will be discussed in the context of their application in two case studies. Regarding structural health monitoring, the planning and installation processes of a monitoring system in an emblematic 16th Century Peruvian church and a detailed discussion of the results of almost two years of continuous monitoring will be presented. In this last case, the structural monitoring results evidence an annual cyclical behavior of the natural frequencies with a correspondence with the changes in environmental conditions due to seasonal influences when certain conditions are considered for data processing.