CERIS Civil Engineering Research and Innovation for Sustainability

Optimal seismic and energy retrofit of existing mixed masonry-RC buildings considering economic and environmental impacts

Summary

This doctoral research aims to develop and demonstrate an optimized procedure for integrating seismic and energy retrofit measures for a typical mixed masonry-reinforced concrete building in Portugal. The main objective is to minimize the economic and environmental impacts associated with the retrofit process. The emphasis lies in identifying combinations of seismic and energy retrofit strategies that ensure the reduction of economic and environmental consequences, thus promoting greater sustainability and efficient resource utilization for this specific building typology.

Keywords

Seismic retrofit, energy retrofit, mixed masonry-RC buildings.

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