



BUILDING RESILIENCE AND CULTURAL HERITAGE: EARTHQUAKES, BLASTS AND OTHERS

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Seminari

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Villa Cambiaso - Salone di Rappresentanza
Via Montallegro 1 - Genova

Venerdi 17 Maggio ore 15.00

Abstract

Over the period 1992 to 2012, it is estimated that natural disasters, e.g. floods, storms, droughts, landslides, volcanic activities and earthquakes, have affected 4.4 billion people, causing 1.3 million deaths and leading to \$2 trillion in economic losses. Since 1960, 40% of natural disaster deaths occurred as a result of earthquake events and 60% of these are due to masonry buildings. The evaluation of the seismic risk is considered essential to define strategic urban and emergency planning management actions. Some recent advances and applications at building and territorial level will be presented.

Biography

Paulo B. Lourenço is Full Professor at the Department of Civil Engineering, University of Minho, Guimarães, Portugal since 2006. He received his PhD in Civil Engineering at Delft University of Technology, the Netherlands in 1996. He has been the Co-Head of the Institute in Sustainability and Innovation in Structural Engineering since 2007 and the Co-Head of the Institute for Bio-Sustainability since 2013. He is the coordinator of the Advanced Masters on Structural Analysis of Monuments and Historical Constructions since 2007. He has just been awarded an Advanced ERC Grant of 3.0 M€ to develop an integrated seismic assessment approach for heritage buildings.