



Research Organization:

Department of Structures for Engineering and Architecture, University Federico II, Naples, Italy

Individual Member:

Antonio Formisano, Assistant Professor, Ph.D.

Short CV:

Antonio Formisano received from University of Naples, Italy, the degree in Civil Engineering in 2003 and the Doctor of Philosophy degree in Constructions Engineering in 2007. He is currently Assistant Professor and Aggregate Professor of Structural Design at the University of Naples Federico II (Italy). His research studies focus on different topics of Earthquake Engineering, such as the performance of steel and aluminium structures, masonry building aggregates, architectural and cultural heritage components and window systems, whose investigation is testified by about 180 papers published into national and international journal papers and conference proceedings.

He is reviewer and editorial board members of many international scientific journals, as well as session chairman and editorial-organization committee member of several conferences.

In the framework of the SPONSE International Association, Antonio Formisano led a research activity on the architectural components within monumental buildings, such as paintings, sculptures, frescoes, moldings, mosaics, statues, tapestries, books/prints, furnitures (ceilings, ambos, pulpits, choir stalls) and furnishings (ceramics, crystalwares, gold things, ...), evaluating the vulnerability of such structures and components under seismic and volcanic points of view. Past research activities on this topic include the artistic-monumental vulnerability of cultural heritage masonry buildings, namely the Golden Mile villas located in the district area of Naples at the feet of the Vesuvius mountain, through the application of the Multi-Criteria Decision Making TOPSIS method. He supervised some MsC thesis on the artistic-monumental vulnerability of cultural heritage masonry buildings and co-authored many papers on this topic.

Moreover, he performed mock up experimental tests and numerical simulations on double glazed aluminium window units. In particular, the performance testing carried out by Aluminum Technology Auxiliary Ind. (ALUTEC) on a glass window within an aluminium curtain wall system used for the Le Boulevard project in Doha (Qatar) was examined and compared with a simplified numerical model of the window developed through the Robot Structural Analysis software. The results of this activity was presented and discussed into a research paper, which was submitted to an international journal and is currently under review.

Finally, the seismic behaviour of ceilings belonging to masonry school buildings located in the Emilia-Romagna region of Italy was investigated during the post-seismic reconnaissance performed by Antonio Formisano after the 2012 Italian earthquake. In this framework he supervised several MsC thesis and published some papers into international journals and conference proceedings.

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