

CURRICULUM VITAE (SHORT) – PhD Marco Vona

Marco VONA is Assistant Professor of Civil Engineering at the University of Basilicata. He holds his PhD “Design, monitoring and retrofitting of conventional and innovative structures” at the Faculty of Architecture of University of Chieti - Pescara (Italy), PhD school.

The research activities are mainly related to earthquake engineering problems. Scientific research activities were carried out in the wide field of seismic engineering following a logical and structured path. Over the years, the research activity has been focused in the study and development of accurate numerical models aimed at studying the vulnerability of RC buildings.

Some experimental activities for the study and development of survey methodologies for evaluating the mechanical properties of concrete have been carried out on structural elements and structures. Over the recent years, an innovative research line is the activities related to the evaluation of the dynamic characteristics of structures through numerical models and laboratory experiments based on real cases. The applications of these activities are both in the study, on a large scale, of the seismic vulnerability (e.g. by means of remote sensing) and in the study, on individual buildings, of the damage caused by the earthquake.

Finally, a novel and multidisciplinary approach to seismic risk mitigation is studied based on the concept of resilience. Thus, interventions at urban scale, reducing urban seismic vulnerability, have been defined using a spatial multi-criteria approach and a multi-criteria decision making analysis.

Marco Vona is membership of IALCCE - International Association for Life-Cycle Civil Engineering.

RESEARCH AND PROFESSIONAL INTEREST

- Civil and Earthquake Engineering.
- Seismic Design, Analysis of Structural and Nonstructural Components.
- Vulnerability Assessment and Retrofitting of Structures.
- Structural Damage analysis.
- Structural Dynamic.
- Seismic Risk, Resilience, and Sustainability.
- Experimental Research Lab Activities.

He is reviewer of some international prestigious journals.

