

## **ŽIVOTOPIS predavača:**

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Hugo Rodrigues is a Senior Lecturer at the School of Technology and Management, Polytechnic Institute of Leiria, Portugal, teaching several topics related with Structural Analysis, Building Pathology and Rehabilitation. He holds a Civil Engineering degree from the University of Aveiro (UA), MSc in Structural Engineering from the Faculty of Engineering of the University of Porto (FEUP) and a PhD in Structural Engineering from UA. He has working experience both in research and industry, having worked at national level in structural design and retrofit.

He is an expert on the numerical modelling development and application for the analysis and vulnerability assessment of existent and new reinforced concrete structures under earthquake loading. His research experience combines full scale testing of RC elements, namely alar camping on the study of reinforced concrete under earthquake load with different retrofitting strategies, and non-linear analytical modelling of structural systems. His main research interests include assessment, strengthening and repair of structures, structural health monitoring, structural testing and modelling, earthquake engineering and structural dynamics.

As a civil engineering consultant and technical adviser, he has been involved in several technical recommendations on existing constructions requested by private or public entities, namely Participate in the development of the Emergency Civil Protection Plan for for each Portuguese District, coordinating the Seismic Risk team; evaluation of the dynamic characteristics of several structures, participate in several load static tests performed on existent structures. He has also been involved in several technical inspections and structural safety assessments carried out in private or public existing constructions.

He has participated to post-earthquake field reconnaissance missions, in particular to L'Aquila (Italy, 2009), Lorca (Spain, 2011), Emilia-Romagna (Italy, 2012) and Gorkha (Nepal, 2015).

He has also been involved in several national and international projects which involved the seismic vulnerability and risk assessment of existing constructions, the development of detailed numerical modelling approaches for earthquake loading, and the development of specific seismic retrofit and strengthening solutions.

He has co-authored several publications in international peer reviewed scientific journals, books and conference proceedings, in the fields of earthquake engineering, assessment and strengthening of reinforced concrete structures.