

Analysis and Mitigation of Risks in Infrastructures

INFRARISK-

6th Summer School Workshop
University of Aveiro, 11th September 2020

Location: Auditorium of the Mechanical Engineering Department

Programme

9:00	Opening Session António Teixeira <i>Head of Doctoral School, UA</i> Victor Ferreira <i>Head of the Doctoral Programme in Civil Engineering, UA</i> Rita Bento <i>Director of the Doctoral Programme INFRARISK-</i>	14:45	Keynote Lecture Chairpersons: Carlos Sousa Oliveira, Daniel Oliveira Current research activities on disaster resilience and emergency response after disasters in Italy Gian Paolo Cimellaro (<i>U. Torino, Italy</i>)
9:20	Research Project Presentations – Earthquake Engineering Chairpersons: Rita Bento, Romeu Vicente Effect of Earthquake risk on the real estate market - An Application to Lisbon João Fragoso Januário (<i>2nd year</i>) Supervision: Carlos Oliveira Cruz (<i>IST</i>), Humberto Varum (<i>FEUP</i>), Vítor Faria e Sousa (<i>IST</i>) Exploring Benefit-Cost Analysis for Earthquake Risk Reduction Holger Lovon Quispe (<i>2nd year</i>) Supervision: Vítor Silva (<i>U Aveiro</i>), Tiago Ferreira (<i>U Minho</i>) Romeu Vicente (<i>U Aveiro</i>) Towards an integrated vulnerability-based approach for evaluating, managing and mitigating earthquake risk in urban areas Rafael Ramirez Eudave (<i>2nd year</i>) Supervision: Tiago Ferreira (<i>U Minho</i>), António Formisano (<i>U Naples</i>) A BIM-Based Methodology for the Seismic Performance Assessment of Existing URM-RC Buildings Gonçalo Lopes (<i>3rd year</i>) Supervision: Romeu Vicente (<i>U Aveiro</i>), Miguel Azenha (<i>U Minho</i>), Tiago Ferreira (<i>U Minho</i>) Simplified methods for seismic assessment of existing masonry buildings Vasco Bernardo (<i>3rd year</i>) Supervision: Paulo Candeias (<i>LNEC</i>), Anibal Costa (<i>U Aveiro</i>)	15:45	Research Project Presentations – Hydrological Engineering Chairpersons: Carlos Sousa Oliveira, Daniel Oliveira Development of multi-hazard risk indicators for immovable cultural heritage Luís Gerardo Flores Salazar (<i>2nd year</i>) Supervision: Xavier Romão (<i>FEUP</i>), Rui Figueiredo (<i>IUSS Pavia</i>) Risk-based analysis of bridge scour prediction Ana Margarida Bento (<i>4th year</i>) Supervision: Teresa Viseu (<i>LNEC</i>), João Pêgo (<i>FEUP</i>), Lúcia Couto (<i>LNEC</i>)
11:00	Coffee break	16:25	Coffee break
11:20	Research Project Presentations – Earthquake Engineering Chairpersons: Xavier Romão, Tiago Ferreira Development of aluminium alloy BRD_AL hysteretic damping system: Material characterization and cross-section configuration analysis Ricardo Ferreira (<i>3rd year</i>) Supervision: Jorge Proença (<i>IST</i>), António Gago (<i>IST</i>) Experimental investigations on wall-to-diaphragm connections Maria Pia Ciocci (<i>4th year</i>) Supervision: Paulo B. Lourenço (<i>U Minho</i>), Rui Marques (<i>U Minho</i>) Experimental testing in support of a seismic risk assessment Gidewon Tekeste (<i>5th year</i>) Supervision: António A. Correia (<i>LNEC</i>), Anibal G. Costa (<i>U Aveiro</i>) Cost function review in seismic risk mitigation Sanam Moghimi (<i>5th year</i>) Supervision: Alexandra Carvalho (<i>LNEC</i>), Paulo B. Lourenço (<i>U Minho</i>)	16:45	Research Project Presentations – Infrastructures & Geotechnics Chairpersons: António Correia, Humberto Varum Increasing resilience and robustness of critical infrastructures to hazards using artificial intelligence and structural monitoring Fabiana Navia (<i>2nd year</i>) Supervision: João Prudente Santos (<i>LNEC</i>), Xavier Romão (<i>FEUP</i>) Risk analysis of transmission lines systems to natural hazards with emphasis on earthquakes and extreme winds Fábio Paiva (<i>4th year</i>) Supervision: Luís Guerreiro (<i>IST</i>), Rui Cameiro de Barros (<i>FEUP</i>) Risk management applied to cultural heritage buildings: The effect of soil settlements and vibrations induced by underground structures Georgios Karanikoloudis (<i>5th year</i>) Supervision: Paulo B. Lourenço (<i>U Minho</i>), João Bilé Serra (<i>LNEC</i>)
13:00	Lunch break	17:30	Discussion: Board of Studies and Researchers/Scholars
		18:15	Closing Session Carlos Sousa Oliveira Romeu Vicente Members of the INFRARISK-, Board of Studies Rita Bento Director of the Doctoral Programme INFRARISK