

ROBERTO PAOLUCCI is full Professor of Earthquake Engineering at Politecnico di Milano, Italy.

He is active in different national and international research projects, mainly involving seismic hazard studies, geotechnical earthquake engineering, dynamic soil-structure interaction, high-performance computing in elastodynamics.

He is presently Director of the PhD School in Structural, Seismic and Geotechnical Engineering at Politecnico di Milano.

He is author or co-author of about 120 scientific papers, half of them published in international peer-reviewed journals.

He has been invited keynote speaker at several national and international conferences and workshops.

He is a member of the Technical Committee TC 203 on Earthquake Geotechnical Engineering, promoted by the International Society of Soil Mechanics and Geotechnical Engineering, of the Working Group on “Future directions for EC8” promoted by the European Association of Earthquake Engineering, of the International Scientific Committee of the SEISM Institute, France.

Awards

2000 Shamsher Prakash Research Award, from the University of Missouri-Rolla, for young (under 40) researchers in earthquake geotechnical engineering.

2006 Outstanding paper award by the Earthquake Engineering Research Institute, California, for the paper “Displacement Spectra for Long Periods”, co-authored by E. Faccioli and J. Rey, published in Earthquake Spectra, 2004.

Selected recent publications

Stupazzini M., Paolucci R., and H. Igel. (2009) Near-fault earthquake ground motion simulation in the Grenoble Valley by a high-performance spectral element code. *Bulletin of the Seismological Society of America*, 99(1): 286-301.

Smerzini C., R. Paolucci, M. Stupazzini (2011). Comparison of 3D, 2D and 1D numerical approaches to predict long period earthquake ground motion in the Gubbio plain, Central Italy. *Bulletin of Earthquake Engineering*, 9: 2007–2029.

Figini R., R. Paolucci and C. Chatzigogos (2012). A macro-element model for non-linear soil–shallow foundation–structure interaction under seismic loads: theoretical development and experimental validation on large scale tests. *Earthquake Engineering and Structural Dynamics*, 41: 475-493.

Mulas M.G., F. Perotti, D. Coronelli, L. Martinelli, R. Paolucci (2013). The partial collapse of “Casa dello Studente” during L’Aquila 2009 earthquake. *Engineering Failure Analysis*, 34: 566-584.

Paolucci R., Figini R., Petrini L. (2013). Introducing dynamic non-linear soil-foundation-structure interaction effects in displacement-based seismic design. *Earthquake Spectra*, 29: 475–496.

Paolucci R., Mazzieri I., Smerzini C., and Stupazzini M. (2014). Physics-Based Earthquake Ground Shaking Scenarios in Large Urban Areas. In A. Ansal (ed.), *Perspectives on European Earthquake Engineering and Seismology, Geotechnical, Geological and Earthquake Engineering* 34, Chapter 10., pp. 331-359.

Pecker A., Paolucci R., Chatzigogos C., Correia A., and R. Figini (2014). The role of non-linear dynamic soil-foundation interaction on the seismic response of structures. *Bulletin of Earthquake Engineering*, 12: 1157-1176.

Smerzini C., C. Galasso, I. Iervolino, and R. Paolucci (2014). Ground motion record selection based on broadband spectral compatibility, *Earthquake Spectra*, 30: 1427–1448.