

Special Issue

What Is Really New in Seismic Response Analysis of Soil Deposits

Message from the Guest Editors

This Special Issue focuses on the lessons learned from the seismic monitoring of vertical and horizontal arrays. In particular, the scope is to add knowledge as far as the following aspects of seismic response analysis of soil deposits are concerned: a) influence of the deepness of the bedrock; b) criteria for the identification of the seismic bedrock; c) valley effects; d) the use of true non-linear models incorporating the soil strength; e) the seismic response of liquefiable deposits when liquefaction occurs (influence of soil failure); f) advances in soil dynamic characterization, with special attention to the in situ determination of attenuation parameters. Of course, the seismic monitoring of strong earthquakes becomes of paramount importance with respect to the above-listed open questions.

Guest Editors

Dr. Diego Lo Presti

Department of Civil & Industrial Engineering, University of Pisa, Pisa, Italy

Dr. Stefano Stacul

Department of Civil & Industrial Engineering, University of Pisa, Pisa, Italy

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Geosciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
geosciences@mdpi.com

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,
Fairbanks, AK, USA

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