



Assessment of Earthquake-Induced Soil Liquefaction Hazard

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Message from the Guest Editors

Dear Colleagues,

Earthquake-induced liquefaction is one of the most relevant phenomena of ground failure that may have disastrous consequences on structures and infrastructures. Liquefaction of soils is a phenomenon of instability affecting saturated deposits of loose sands which abruptly reduce their stiffness and strength due to pore water pressure build-up caused by severe ground shaking. Once triggered, liquefaction of soils may yield large deformations of the ground surface with sinking and overturning of buildings and infrastructures.

Efforts worldwide have been spent in recent years to mitigate liquefaction-related damage including developing multi-scale approaches and technical guidelines for the evaluation of the liquefaction potential.

This special issue is aimed at collecting the most prominent research results in the assessment of liquefaction hazard by combining interdisciplinary approaches coming from earthquake geotechnical engineering, engineering geology, soil dynamics, geomorphology and hydrogeology, to provide an overview of the innovative methodologies and a comprehensive state of the art in this field.

Guest Editors





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Message from the Editor-in-Chief

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.

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