



Assessment of Earthquake-Induced Soil Liquefaction Hazard— Volume II

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Message from the Guest Editors

Dear Colleagues,

Seismic liquefaction is a phenomenon of soil instability that may lead to disastrous consequences for structures, infrastructures and the environment. Liquefaction is associated with a reduction of strength and stiffness of a saturated deposit of loose sands due to pore water pressure build-up caused by ground shaking. Liquefaction and related phenomena have been responsible for tremendous amounts of damage during historical earthquakes worldwide. Liquefied soil also exerts higher pressure on retaining walls, which can cause them to tilt or slide. This movement can cause settlement of the retained soil and the destruction of structures on the ground surface.

Articles focusing on liquefaction hazard assessment at different spatial scales, vulnerability and resilience of structures and infrastructures to soil liquefaction, technologies to mitigate the liquefaction phenomenon and its consequences, physical and numerical modeling, laboratory and in situ experiences, computational tools for liquefaction risk assessment, etc., are welcome in this Special Issue.





Editor-in-Chief

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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.

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.

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