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Seismic Microzonation Analysis of the Anthropized Environment: Approaches and New Perspectives

Guest Editors:

Dr. Giuseppe Cavuoto

Prof. Dr. Stefano Catalano

Dr. Vincenzo Di Fiore

Dr. Roberto De Franco

Deadline for manuscript submissions:
closed (30 July 2021)

Message from the Guest Editors

Dear Colleagues,

More than half of the world's human population lives in urban and/or peri-urban areas, and about 65% of all supercities (total population 403 million) are currently exposed to seismic shaking and to the localized amplification and induced effects of earthquakes. Detailed studies on local geological, geophysical, and geotechnical properties of urban sites are crucial to tackle the problem of local seismic hazards in anthropized environments. Seismic Microzonation Analysis (SMA) is a worldwide accepted tool (methodology) for detailing the knowledge of local key-factors, governing the site seismic response.

For this Special Issue in Geosciences, we encourage original contributions on a wide range of topics related to innovative studies on the site-effects using underground modelling and its calibration by geophysical surveys and numerical tools (1D linear and nonlinear, 2D linear, equivalent-linear and non-linear, and 3D linear software).

Case histories from coastal, marine and lacustrine settings, in archaeological sites, old towns, and historical centers or onto infrastructure networks or critical sites at urban and/or peri-urban scale are welcomed.

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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 coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased 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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