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Quaternary Stratigraphy of Alluvial and Coastal Plains: Recent Advances and Potential Applications

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Deadline for manuscript submissions:
closed (25 June 2022)

Message from the Guest Editors

Dear Colleagues,

Alluvial and coastal plains worldwide are densely populated regions, which have experienced massive urbanization in the last decades. Subsurface investigation of these areas is crucial to a number of applications, including exploitation of natural resources; planning of new infrastructures; and mitigation of geological risk related to earthquakes, river flooding, and marine inundations.

In recent decades, there have been rapid improvements in techniques of subsurface investigation at different temporal and spatial scales using core and well-log correlation and geophysical surveys. In this scenario, Quaternary successions sparked interest among stratigraphers as formidable modern analogues for the interpretation of ancient strata. Quaternary studies are advantaged by (i) dating methods with high temporal resolution, (ii) poor tectonic deformation and limited diagenesis, (iii) source areas that do not experience substantial modifications, and (iv) fossil species comparable to modern bio-assemblages.

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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.

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