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Natural and Artificial Unsaturated Soil Slopes

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Recently, there has been extensive literature on engineering problems involving soils whose mechanical and hydraulic properties are strongly influenced by the degree of saturation. Earthen embankments, soil–vegetation–atmosphere interaction, geoenvironmental applications, risk mitigation, are just a few examples of the constant interest of the scientific community to the subject. The presence of a sloping ground surface is common to many of these problems.

Hoping to provide a bridge between theoretical research and practical applications, this Special Issue aims to collect quality contributions related to natural and artificial slopes under unsaturated conditions and focusing on several aspects such as the following: water retention and transport properties, mechanical behavior, advances in experimental methods, laboratory and in situ characterization, soil improvement, field monitoring, small-scale models, geotechnical and geophysical field tests, landslide investigation and prevention, design and maintenance of engineered slopes, analysis at different spatial scales, constitutive and numerical modeling of the chemo-hydro-mechanical behavior.

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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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