Special Issue

Interacting Alongslope and Downslope Sedimentary Processes

Message from the Guest Editors

The aim of this Special Issue of *Geosciences* is to collate current knowledge on the interaction of downslope and alongslope processes that take place on subaqueous slopes and to identify future research directions. Downslope, gravity-driven and alongslope, current-driven sediment transport processes are common phenomena on subaqueous slopes. However, mixed depositional systems are only now beginning to be identified thanks to high-resolution datasets that are increasingly becoming available. Flow energy, competency and duration differ between the two processes, yet they often mix and generate either alternating deposits or coeval interacting deposits, which are often difficult to differentiate. The implications are numerous for example for deltaic sedimentation models, stability of contouritic slopes, hydrocarbon exploration, palaeogeographic and palaeoenvironmental reconstructions, etc. We invite contributions that explore these processes and that use diverse datasets, such as seismic, modern seafloor, core and ancient outcrops.

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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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