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Applications of Structure-from-Motion Photogrammetry in Coastal and Marine Studies

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Deadline for manuscript submissions:
closed (15 May 2022)

Message from the Guest Editors

Dear Colleagues,

Structure-from-motion (SfM) is a topographic survey technique that has recently emerged from traditional photogrammetry and advances in computer vision, offering potential to generate high accurate dense point clouds at different scales, to restitute the three-dimensional geometry of objects or surfaces. The applications of SfM in coastal and marine geosciences are vast, ranging from geomorphology, sedimentology, natural hazards, structural geology, geoheritage, archaeology, etc.

This Special Issue aims to document the vast applications of SfM across different coastal and marine environments, such as coastal barriers, sandy and boulder beaches, rock platforms, nearshore and deeper waters. We welcome original contributions addressing a wide range of processes and scales, especially those highlighting diverse and novel approaches. Submitted papers are expected to meet a series of criteria, including: i) a sound description of methods such as equipment and photogrammetric processing; ii) model parameters; iii) assessment of topographic quality through comparison against independent points; and iv) appropriate acknowledgement and handling of uncertainties.

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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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