



Application of UAVs in Geo-Engineering for Hazard Observation

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Message from the Guest Editors

The earth's surface has been modeled by geological dynamics that have shaped it and by complex geomorphological processes that drive its transformation and evolution over time. Resilience of structures and infrastructures to geo-hazard events has become a crucial feature. Accurate geomatic surveying is a prerequisite for studying the processes and dynamics of both the earth's surface and of the structures on it. Such surveying is widely used in geology and geomorphology for its ability to provide reliable multiscale and multi-temporal base maps and accurate digital elevation models (DEM).

The purpose of this Special Issue is to present new research advances on the applications of UAV photogrammetry for the characterization and monitoring of ground and structure/infrastructures, with special reference to their digital modeling. All kinds of innovative applications of UAVs to geo-engineering issues are therefore welcome. We expect contributions focusing on different aspects in this field, both algorithmic and methodological.





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