



Environmental Monitoring Using UAV and Mobile Mapping Systems

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Message from the Guest Editor

With the increase in global population and decrease in available resources, we have an unprecedented need to develop accurate, affordable tools for the digital documentation and inventory of our environment. Mobile mapping systems equipped with passive and active sensing modalities have been proven as accurate modalities for the accurate documentation of our surroundings. Advances in direct georeferencing technologies (i.e., integrated global navigation satellite systems and inertial navigation systems—GNSS/INS), passive sensing technologies operating in different portions of the electromagnetic spectrum (e.g., multi-spectral, and hyperspectral cameras), active ranging systems (e.g., linear and single-photon light detection and ranging—LiDAR), and platforms (e.g., crewed and uncrewed aerial/ground vehicles) are providing unprecedented opportunities for the accurate, up-to-date, and affordable mapping of our environment.

This Special Issue is seeking contributions that deal with different aspects of using mobile mapping technologies, in general, and uncrewed aerial vehicles, in particular, for environmental monitoring applications.





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Message from the Editor-in-Chief

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