



Application of Digital Aerial Photogrammetry in Geomorphological Studies

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Message from the Guest Editors

In the last decade, novel methodologies concerning the creation of high-resolution topographic data have experienced an evident revolution in geomorphology. Terrestrial laser scanners, airborne LiDAR, synthetic aperture radar and photogrammetry, among others, have allowed for the creation of very-high-resolution digital elevation models (DEMs).

Of these novel methodologies, photogrammetry is probably the one to have experienced the greatest development, due to its low cost and ease of application. The growth and development of structure-from-motion (Sfm) algorithms for aerial image processing has been a milestone in photogrammetry, making their use relatively inexpensive and requiring little training to apply. The application of photogrammetric techniques is being used to analyze geomorphological processes in many research fields.

Topics for consideration include, but are not limited to, the following areas:

UAV digital photogrammetry;

Analysis of landforms and processes using high-resolution topographic data/photogrammetry;

Extraction of quantitative geomorphic parameters obtained from DEMs;

Different-resolution data in the characterization of geomorphic features.





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