

Call for Papers: Special Issue Geomorphometry 2020

Geomorphometry is the science of quantitative land surface analysis. It gathers many mathematical, statistical and image processing techniques to quantify geological, morphological, hydrological, ecological and other aspects of a land surface. Common synonyms for geomorphometry are geomorphological analysis, terrain morphometry, terrain analysis and land surface analysis. The special issue focuses on different aspects and frontiers of geomorphometry, including:

- use of Digital Elevation, Terrain and Surface Models in the different fields of Earth and planetary science;
- processing of high resolution data collected with LiDAR, photogrammetry and satellite imagery;
- training and validation of terrain feature classification algorithms based on statistical and machine learning algorithms;
- challenges in the measurements and simulations of Earth surface changes;
- geomorphometric modeling of 3D and 4D data;
- contributions that the terrain and surface modeling can provide to the research on climate change impact and adaptation strategies;
- full exploitation of the morphometric variables in the fields of extreme events and natural hazard spatial and temporal forecast;
- link between the bathymetric data and the submarine and coastal processes;
- geomorphometry of urban and cultural heritage;
- role of geomorphometry in the biological and ecological research and applications.

The special issue "Geomorphometry 2020" in Transactions in GIS collects contributions stemming from the short papers submitted to the conference [Geomorphometry 2020](#), but it is not limited to them. Authors of accepted abstracts for the conference were invited to submit papers for the special issue, according to the journal's [Author Guidelines](#). Submissions are now open for *extra contributions*, and all of them will go through standard peer review process of the Journal.

Submission Guidelines

Submissions to ScholarOne Manuscripts site:
<https://mc.manuscriptcentral.com/tgis>

Submission Deadline: **April 1st, 2021**

Expected Final Decision: **August 1st, 2021**

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