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Environmental Monitoring and Mapping Using 3D Elevation Program Data

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submissions:

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Message from the Guest Editors

The purpose of this Special Issue is to demonstrate the value of 3DEP data for research applications. Contributions covering the following subtopics are welcome:

- Use of 3DEP lidar point clouds to extract and understand vegetation information
- Extraction of new features from 3DEP source data
- Use of 3DEP DEMs for understanding environmental processes
- Use of 3DEP data to identify and understand natural hazards and associated processes
- Use of 3DEP data in combination with other sources of topographic data to understand landscape change associated with natural or anthropogenic processes
- Continental scale uses of 3DEP seamless DEMs
- New methodologies to understand the quality and accuracy of 3DEP data for environmental applications
- Synergies and fusion of 3DEP data (DEMs and/or point clouds) with multi- and hyperspectral imagery
- Synergies and fusion of 3DEP data with global data, such as ICESat-2, GEDI, and others
- Machine learning and artificial intelligence applications using 3DEP data
- Big data processing of 3DEP data using cloud, high performance computing and other cyberinfrastructure platforms, such as OpenTopography and CyVerse



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Special Issue



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Message from the Editor-in-Chief

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