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Photogrammetry Meets AI

Guest Editors:

Dr. Fabio Remondino

FBK-Bruno Kestler Foundation,
3DOM, Trento, Italy

Dr. Rongjun Qin

1. Department of Civil,
Environmental and Geodetic
Engineering, The Ohio State
University, Columbus, OH 43210,
USA

2. Department of Electrical and
Computer Engineering, The Ohio
State University, Columbus, OH
43210, USA

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submissions:

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Message from the Guest Editors

For many years, photogrammetry has been the leading methodology to derive 3D metric and accurate information from imagery, at different scales (from satellite to aerial, terrestrial and under water) and from different sensors (linear, frame, panoramic). This Special Issue wants to focus on this recent change for 3D geometric tasks, and is seeking high-quality papers that explore all the potentialities offered by AI in photogrammetric problems :

- Image matching and learning-based tie points extraction;
- Outlier removal;
- Structure from motion and bundle adjustment;
- Camera project loss and calibration;
- Simultaneous localization and mapping (SLAM) in the era of deep learning;
- Monocular depth estimation;
- Multi-view stereo (MVS) and dense point cloud generation with neural networks;
- 3D representation and reconstruction with neural radiance field (NeRF);
- Implicit methods for 3D representation from images and mesh reconstruction;
- 3D fusion of heterogenous datasets;
- Learning-based DSM inpainting;
- Point clouds editing, cleaning and filtering;
- Quantitative evaluations and analyses within applications.



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Special Issue



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Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing
MDPI, St. Alban-Anlage 66
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