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Applications of Remote Sensing Imagery for Planetary 3D Mapping

Guest Editor:

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Message from the Guest Editor

In recent years, many efforts have been directed in three different intertwined directions, namely the use of instrumental, algorithmic, and interpretation methods for the development of 3D planetary mapping data. For the development of remote sensing instruments oriented to photogrammetry, three cases can be highlighted: one in course, one near to its first light, and the third in the design phase. This is the case of CaSSIS of the TGO mission, the suit SIMBIO-SYS onboard the BepiColombo mission, and the DAEDALUS-CAM.

On the other hand, the photogrammetric community is evolving pipelines and tools for the 3D reconstruction of planetary data. This research covers different branches of instruments and different kinds of approaches which span from the area-based approach to the Adversarial Generative Network Designed for Depth Estimation.

This Special Issue invites the community to present updates on or recaps of the instruments designed or already working oriented to photogrammetry, research oriented to improvements in depth estimation or 3D reconstruction, and the novel use of scientific analysis based on the use of 3D data delivered by planetary 3D mapping.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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