



Laser and Optical Remote Sensing for Planetary Exploration

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Message from the Guest Editors

Planetary exploration is of great significance in promoting the development of science and technology and advancing human civilization more broadly, representing the frontier field of science and technology development in the world. Laser and optical remote sensing payloads, including cameras, spectrometers, imaging spectrometers, and LiDAR, have been widely applied in planetary exploration, playing an irreplaceable role with excellent prospects for scientific and technological applications. While the techniques of laser and optical remote sensing for planetary exploration are similar to those applied for Earth remote sensing, the application of laser and optical remote sensing in planetary exploration is confronted with problems such as complex deep space environments, lighter, smaller requirements on payloads with lower power consumption and long-life payload design requirements, and therefore requires specialized research. With the development of computational optics, machine learning, materials science and other fields, laser and optical payloads will definitely achieve higher resolution, higher sensitivity and wider detection range to help planetary remote sensing exploration.





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Message from the Editor-in-Chief

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