Special Issue

Advancing Land Monitoring through Synergistic Harmonization of Optical, Radar and Lidar Satellite Technologies

Message from the Guest Editor

Land monitoring involves observing, measuring, and analyzing the Earth's surface to understand its characteristics. It's gaining importance due to sustainable resource management, technology advancements, and environmental concerns. Integrating optical, radar, and lidar satellite observations can enhance monitoring accuracy, but challenges exist. Developing algorithms to combine different sensor data and ensuring temporal consistency are primary challenges. Interpreting complex data accurately and improving radar and lidar resolution are also important. Addressing these challenges will enable comprehensive land monitoring, aiding climate response, disaster management, and sustainable environmental practices. Contributions in the form of original articles, reviews, and perspectives are invited from researchers and practitioners working on developing algorithms, improving existing techniques, and applying these methods to diverse geographical regions and ecological settings, offering unprecedented insights into our changing world. We thank you in advance for your contributions to this Special Issue.

Guest Editor

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