



New Technologies for Earth Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

Remote sensors have enabled a better understanding of the Earth’s climate and the interactions between the ocean, land, and atmosphere, improving the knowledge on the global Earth dynamics. At present, miniaturization, increased communications and networking capabilities, as well as machine learning and artificial intelligence are enabling new remote sensing instrument concepts, including distributed and reconfigurable sensors, for satellite, airborne, and ground-based platforms. These new remote sensing technologies can potentially explore widespread fields, including but not limited to passive/active and microwave or millimeter-wave/optical, or a combination of those.

We invite authors to submit their work on remote sensing technology developments on any of the above fields. Technology advancements include any development at subsystem level, at a system (instrument) level, mission level, or even at system of systems level. We also encourage studies including the analysis of performance improvement in terms of spatial, radiometric, spectral or temporal resolutions, related to the scientific applications.





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