



Dynamic Geophysical Phenomenon Monitoring Using Remote Sensing

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Deadline for manuscript
submissions:

closed (31 August 2022)

Message from the Guest Editors

Dynamic geophysical phenomena embrace a wide range of observable and measurable events spanning from the nucleation and evolution of seismic sequences to geomagnetic field variations and fluid migration. The monitoring of dynamic geophysical processes implies major efforts both pertaining to the techniques required for the observations and the modeling of the acquired data. Among the possible monitoring techniques, those implying a remote observation of the phenomenon represent the main contributors to the large-scale understanding of such processes. Their role is likely going to grow in future years with new challenges coming from climate change, renewable energy and decarbonification demands, with significant efforts from research institutes and industries converging to these goals. Contributions on new approaches to monitoring processes that produce a changing geophysical signature in time are welcome. These may include but are not limited to fluid storage and migration in the subsurface, atmospheric fluid modeling, seismic sequence evolution, geomagnetic and gravity field variations, landslide geophysical modeling, and modeling of active sources in volcanic areas.





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