Remote Sensing Monitoring for Earthquakes, Tectonics and Seismic Hazards

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Message from the Guest Editors

Technological improvements in sensors and advances in computational power, together with the increased number of satellites dedicated to Earth observation, have promoted a significant evolution in remote sensing science in the last decades.

Satellite-, aircraft-, and land-based geophysical, geodetic, and geochemical data have proved to be key tools to not only extensively map surface phenomena associated with tectonics and earthquakes, even for light-magnitude events, but also to depict tectonic strain, allowing the identification of areas of increased seismic risk.

Additionally, continuous data (in space and time) on slow surface displacement, e.g., post-seismic relaxation following large earthquakes, represent a precious reference for modeling the rheology of the crust and upper mantle in these regions.

More recently, the introduction of robot and drone technology in remote data acquisition has also facilitated more detailed characterizations of fault movements and monitoring of volcano tectonic activity, representing strong support in constraining the interpretation of satellite data.

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Special Issue

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Message from the Editor-in-Chief

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