



Improving Disaster Damage and Loss Assessments by Modeling and Remote Sensing Techniques

Guest Editors:

Dr. Bruno Adriano

Dr. Sadra Karimzadeh

Dr. Luis Moya

Dr. Bahareh Kalantar

Dr. Alok Bhardwaj

Dr. Yanbing Bai

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Message from the Guest Editors

Dear Colleagues,

In recent years, remote sensing (RS) technologies have been used extensively in disaster science research, yielding novel methodologies for rapid post-disaster damage assessments and an accurate understanding of hazard scenarios before disasters. On the one hand, integrating numerical modeling and remote sensing technologies grant powerful means to analyze several characteristics of the Earth's surface ground, such as deformations, growing urban environments, and local site characterization. Furthermore, optical imaging and synthetic aperture radar (SAR) provided complementary information for pre- and post-disaster hazard assessments. However, complex and unique disasters induced by earthquakes, heavy rain, and other natural phenomena present great challenges for RS and modeling technologies. This Special Issue explores the theory and application of numerical modeling with RS technologies for disaster damage and loss assessments. It is open to contributions on advances and developments of methodologies and applications in the RS and numerical and machine learning modeling of earthquakes, tsunamis, volcanic, and flooding events.





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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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