Special Issue

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

Message from the Guest Editors

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 learing modeling of earthquakes, tsunamis, volcanic, and flooding events.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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