Special Issue

The Application of Geospatial Data for Response Efforts of Disaster Management in Urban Areas Using Machine Learning

Message from the Guest Editor

GIS and Remote Sensing fields play a vital role in disaster management with access to various remote sensing platforms. With the new advancements in the fields, especially regarding machine/deep learning and 3D city modeling, it is worth thinking about how these advancements can be employed in disaster management efforts.

Based on the literature, disaster management efforts can be summarized in four stages: Preparedness, Response, Recovery and Prevention. While Geospatial data are used for all four stages, in this Special Issue, we focus on new advancements in the Response efforts, which include damage map generation and post-disaster coordination. This includes but is not limited to:

Application of machine learning in disaster coordination; Utilization of Deep Neural Networks in damage map generation; Identification of the best feature layers and machine learning algorithms for damage map generation; Generation of damage map in a timely manner considering the urgency of the response efforts; Utilization of existing and perhaps outdated GIS resources in disaster response; Estimation of damage using only post-disaster data sources.

Guest Editor

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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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