Special Issue

Integrating Deep Learning (DL) and Satellite Imagery in Landslide Mapping

Message from the Guest Editors

Integrating deep learning (DL) and satellite imagery in landslide mapping has emerged as a powerful approach to improve the detection, mapping and monitoring of landslides across different spatial and temporal scales. This Special Issue aims to bring together state-of-the-art research that explores innovative methodologies, data integration strategies and practical applications of deep learning for landslide mapping and analysis. By fostering interdisciplinary contributions from geomorphology, remote sensing and data science, this Special Issue seeks to advance methodological robustness and promote reproducible, scalable and operational solutions for landslide risk reduction and disaster management. Contributions may address topics such as automated landslide inventory generation, post-event mapping, susceptibility and hazard assessment, multi-sensor data fusion, the transferability of DL models across regions and challenges related to training data quality, interpretability and uncertainty.

Guest Editors

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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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