Special Issue

Advanced Geospatial Artificial Intelligence for Forest Modeling, Prediction, Conservation and Management

Message from the Guest Editors

Recent advances in computer vision, pattern recognition, and artificial intelligence (AI) technologies have resulted in the development of new machine learning, geospatial data mining techniques, and allowing the monitoring of forest ecosystems with higher accuracy. Earth observation (e.g., optical, SAR, UAV, and LiDAR) data provides an important tool for monitoring forests and identifying attributes such as species, biomass, and carbon stocks. Advanced machine learning and remote sensing approaches offer a way to reduce the uncertainty in estimates of forest ecosystem service loss, and are needed for the monitoring, reporting, and verification (MRV) of international conservation programs such as Reducing Emissions from Deforestation and Forest Degradation (REDD+).

- geospatial technology, remote sensing, UAV photogrammetry, and machine learning for forest monitoring;
- geospatial AI for forest aboveground biomass and carbon stock estimation forest fire prediction and, forest conservation and management;
- the temporal dynamics of forest change;
- monitoring tree species and structure;
- data fusion techniques for forest monitoring;

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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