Special Issue

Sustainable Environmental Solutions Based on Advanced Geospatial Technologies

Message from the Guest Editors

This Special Issue, "Sustainable Environmental Solutions based on Advanced Geospatial Technologies", seeks cutting-edge research leveraging AI-enhanced technologies to model spatiotemporal patterns of Earth's critical resources and environments, and improve disaster (especially geohazards) monitoring, early warning, and risk evaluation, supporting sustainable development. Potential topics may include (but are not limited to) the following: (1) Model spatiotemporal dynamics of Earth's critical resources (forests/water/soils) and multi-sphere interactions; (2) Innovate geohazard early warning and prediction systems (floods, wildfires, landslides) via multi-source data fusion; (3) Track environmental pollution using multispectral/hyperspectral/SAR imagery; (4) Quantify carbon fluxes through atmosphere–biosphere–hydrosphere coupling. We prioritize DL innovations (e.g., CNNs, Transformers):

- Automating feature extraction (land degradation, biodiversity loss);
- Modeling nonlinear sphere couplings (e.g., anthropogenic carbon–climate impacts);
- Real-time hazard forecasting with uncertainty quantification;
- Optimizing resource governance via predictive simulations.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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