

## Special Issue

# Innovative Applications of GIS, Remote Sensing and Data Analysis in Sustainable Environmental Management

### Message from the Guest Editors

This Special Issue aims to highlight innovative applications of geographic information systems (GIS), remote sensing, and data analysis for advancing evidence-based, quantitative, and operational sustainable environmental management globally. The primary focus is to integrate multi-source geo-spatial observations and intelligent analytical methods to monitor, model, and assess terrestrial ecosystems under intensifying climate change and human activity pressures. The scope spans advanced remote sensing information extraction, high-resolution spatial-temporal modeling, dynamic ecosystem monitoring, carbon sink quantification, and data-driven decision support systems for ecological protection, climate adaptation, and low-carbon development. Particular emphasis is placed on terrestrial ecosystems, such as forest, grassland or agriculture-related structure retrieval, carbon sink estimation, disturbance detection, and ecosystem responses to climate variability and human activities.

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### Guest Editors

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

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## Editor-in-Chief

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