Special Issue

AI-Empowered Remote Sensing Monitoring and Geospatial Analysis for Ocean and Coastal Environments

Message from the Guest Editors

We encourage submissions exploring research advancements in and applications of modeling systems and coastal monitoring systems to study the hydrodynamics, morphodynamics, biodiversity, ecological processes, and community succession of the coastal ecosystem; ocean remote sensing, ocean color monitoring, modeling biomass and the carbon of oceanic ecosystems, biogeochemical processes, sea surface temperature (SST) and sea surface salinity, ocean monitoring for oil spills and pollution, coastal erosion, and accretion measurement. Additionally, this Special Issue aims to highlight the integration of AI with remote sensing technologies, including AI-driven remote sensing data processing and intelligent interpretation methods, such as large-model remote sensing indices for the precise identification of key coastal geographical features. We also welcome studies on multimodal sensing data fusion technologies tailored for marine and coastal scenarios, as well as the development of novel lightweight sensors and multi-platform collaboration (e.g., drones and unmanned ships) for marine environmental disaster early warning and monitoring.

Guest Editors

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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.

Editor-in-Chief

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