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Application of Remote Sensing in Coastline Monitoring

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Deadline for manuscript submissions:
16 December 2024

Message from the Guest Editors

Dear Colleagues,

The morphologies of coastal areas are extremely diverse, and their dynamic behavior constrains the use of traditional coastal monitoring methods due to their low temporal resolution and/or limited spatial coverage. Remote sensing techniques have already proven to be able to overcome these problems by enabling the development of large datasets that can be used to describe the evolution of coastal areas worldwide.

This Special Issue aims to explore new techniques for monitoring geomorphological changes and processes in coastal areas. Studies that cover recent advancements in EO data processing methodologies, techniques, and future developments are welcome, as are studies focused on the following aspects:

- Remote-sensing-based shoreline detection and evolution analysis;
- Erosion and accretion processes induced by hydrodynamic conditions;
- Coastal sediment dynamics, including river–coast connectivity;
- Morphological changes and evolution of dune systems;
- Short- and long-term evolution of coastal wetlands;
- Rocky coast dynamics;
- Integration of remote sensing datasets for long-term studies of coastal evolution;
- New remote sensing tools for coastal studies.

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Special Issue

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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.

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