



Remote Sensing and GIS Applications for Coastal Morphodynamic Systems

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Waves, currents, tides, climate change and human activities are important factors affecting coastal morphology. Due to the complex and dynamic nature of coastal environments, studying and monitoring these processes is challenging. Remote sensing and geographic information systems (GIS), as important monitoring means, can be used to deeply understand the coastal conditions and coastal evolution under different geomorphic environments and time scales through remote sensing observation.

The purpose of this Special Issue is to publish innovative research and application-oriented works related to coastal morphological monitoring. Potential topics include, but are not limited to, the following:

1. Coastal geomorphology (Coastal evolution, erosion, Sediment dynamic processes) monitoring;
2. GIS and Remote sensing technologies such as optical, radar, and LiDAR for Coastal/beach Systems;
3. New technology, numerical modeling, applications, etc. such as machine learning, AI.

Dr. Yann Balouin
Guest Editor



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Message from the Editor-in-Chief

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