



Monitoring Coastal and Marine Environments Based on Remote Sensing Data

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Message from the Guest Editors

Dear Colleagues,

Coastal and nearshore marine environments are essential ecosystems that provide critical resources and support numerous human activities. Moreover, coastal areas are the planet's most dynamic and rapidly evolving systems and are highly vulnerable to human-induced and natural changes such as pollution, habitat loss, and climate change. Coastal erosion, flood risks, increased landslide occurrence, and wetland loss are expected to intensify in the coming decades, posing severe threats to inhabited areas and environmental assets. These environments are characterized by substantial spatial and temporal variability because of their position at the interface between sea and emerging lands. In these highly variable and dynamic environments, valid and repeatable monitoring methodologies are essential to identify the effects of climate change and reduce natural systems' vulnerability to human impacts.

This Special Issue will highlight the recent advances in remote sensing techniques for monitoring coastal and marine environments and integrating multi-source datasets and data.





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