



*remote sensing*



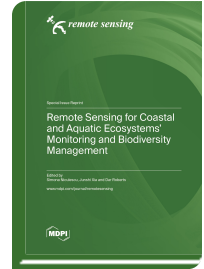
*Special Issue Reprint*

## **Remote Sensing for Coastal and Aquatic Ecosystems' Monitoring and Biodiversity Management**

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Environmental management and the preservation of biodiversity are widely considered a priority in the context of accelerating global changes affecting the physical and biological resources of our planet. This Special Issue of the journal will focus on “Coastal and Aquatic Ecosystems”. The coastal region is a transition area between terrestrial and marine ecosystems. This transition area is now considered an important component of the biosphere, both in terms of ecosystems’ diversity and in the provision of resources and services. Moreover, the coastal region is home to a significant number of distinct biological communities, including coral reefs, mangroves, salt meadows and wetlands, phanerogam meadows, and kelp forests, estuarine assemblages or coastal lagoons, forests, and grasslands. The diversity of coastal ecosystems is directly threatened by human activity.

Remote sensing meets this challenge by offering a wide range of standard products on environmental coastal condition, thanks in particular to various state-of-the-art sensors. The development of innovative methods based on the integration of multi-source, multi-resolution, and multi-temporal images offers promising prospects for considering the different scales of ecosystems. Consequently, the products derived from remote sensing contribute to the development of temporal and spatial indicators for better knowledge and management of coastal and aquatic ecosystems.



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