

## Geomatic Applications to Coastal Research: Challenges and New Developments

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### Message from the Guest Editors

A large percentage of the world's population is situated along the coastal zone. Due to their intrinsic nature, coastal areas are highly vulnerable to natural hazards, which are forecast to increase in a climate change scenario. These threats demand specific monitoring programs and sustainable coastal management plans. Therefore, detailed information about the processes taking place in coastal areas is essential for coastal managers. In fact, remote sensing and GIS have been widely used to support conventional methods for monitoring coastline change. Additionally, free access to data from Earth Observation satellites provides the capability to monitor coast changes in a cost-effective manner. Furthermore, many advanced methodologies have been developed using close-range digital images for change detection.

This Special Issue aims to collect high-quality, innovative research papers dealing with the collection, storage, integration, modelling, analysis, and display of spatially georeferenced information about coastal systems. We welcome different applications and new case studies of geomatics use to increase the knowledge of the coastal environment in diverse topics.



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