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Application of Remote Sensing for Coastal Monitoring

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Message from the Guest Editors

Coastal zones are highly dynamic and complex environments. Integrating the different components of coastal changes requires an extensive collection of datasets for monitoring nearshore dynamics (SSH, SWH), coastal hydro-morphodynamics, including shoreline position, and beach evolution. The assessment of multi-timescale dynamic is most effectively achieved through a diverse array of remote sensing (RS) techniques. The use of RS techniques depends on the spatial and temporal scales of interest in regard to the physical process in question. Studying the interaction between several processes requires a coupling between different sensors deployed across terrestrial, airborne, and spaceborne platforms to overcome the drawbacks of each sensor type used separately.

The main objective of this Special Issue is to highlight the relevance of remote sensing for investigating the dynamics of coastal components exposed to various external and internal drivers. It addresses the development of (1) different RS-based coastal applications, (2) innovative approaches for optimizing the use of RS, and (3) the interaction between them.

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Message from the Editor-in-Chief

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