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Modern, Statistical Methods and Signal Processing Tools of Analyzing the Evolution of the Morphology of Coastal Zone

Guest Editor:

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Deadline for manuscript submissions:

closed (10 December 2021)

Message from the Guest Editor

This issue will cover the following key groups of problems. influenced by climate change impacts: shoreline/seabed change, wave climates and hydrodynamic regimes, inundations by marine and estuarine floods, sea level rise. The studies will contain, but are not restricted to, wave parameters, coastal and estuarine currents, sediment transport, shoreline/seabed evolution trends, combined storm surge and sea level rise impacts, hurricanes (pathways, intensity, duration), etc. Papers covering a wide spectrum of spatial scales from small in situ experiments to very large scales of entire marine basins. Methods of processing of large data sets are preferred; they should include, but are not restricted to, different variants of principal component analysis (ordinary and complex PCA, extended EOF), ordinary and multi-channel singular spectrum analysis, canonical correlation analysis, principal interaction/oscillation patterns, and continuous and discrete wavelet transforms. Furthermore, traditional statistical tools, such as FFT, fit the scope of the issue. Of interest are also techniques of the assimilation of satellite data and the use of digital terrain models in coastal studies











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Message from the Editor-in-Chief

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