

CALL FOR PAPERS

In the last decades, coastal protection became an issue of increasing importance in civil engineering. This is also because the climate changes induced very often new dynamics in the marine environment, strongly affecting the coastal areas. For this reason, developments in coastal and marine engineering have become also popular research topics. Knowledge of the marine environment has been understood better with modelled datasets, supplemented by in situ and remotely sensed data. Marine weather forecasts, wind and wave climatology, extreme events, sediment transport in coastal regions, wave-structure-soil interactions, shoreline changes, coastal erosion, monitoring, planning, and design of breakwaters, ports, marinas, coastal stability, and defense structures, flood risk management, and integrated coastal zone management are extremely important for the coastal protection and prevention of the coastal hazards. Moreover, knowledge of the wind and wave climate over different spatial scales is particularly important and useful for scientists, designers, civil engineers, and decision makers.

The marine and civil engineering communities have made new insights into their observations and modelling systems in various coastal and civil engineering fields. Significant developments have been achieved in measurement techniques, both in situ and from Earth observation by means of new generation satellite-borne sensors. Besides, improvements in the numerical modelling approach involve the definition of new physical parameterizations and multimodel frameworks overarching interdisciplinary and multiscale processes, while the increasing computational availability provides unprecedented opportunities for exploring longer time scales and finer resolutions. Following up-to-date developments, the main target of this special issue is to create a multidisciplinary forum of discussions on the most recent advances in civil engineering with a special focus on coastal and marine areas in various environments, as well as identifying possible new applications.

We invite authors to contribute original research papers that will illustrate the continuing effort to understand developments in enhancing coastal protection and safety of the marine activities.

Potential topics include but are not limited to the following:

- ▶ Monitoring, planning, and design of breakwaters, ports, and marinas
- ▶ Monitoring, planning, and design of coastal defense and coastal stability structures
- ▶ Coastal erosion and shoreline changes
- ▶ Wave-structure-soil interactions
- ▶ Sediment transport
- ▶ Integrated coastal zone management
- ▶ Flood risk management
- ▶ Morphodynamics of composite coastal systems
- ▶ Wave mechanics and transformation
- ▶ Wind and wave modelling at global, regional, and coastal scales
- ▶ Extreme events, storm analyses, and storm surge
- ▶ Climate change in coastal zones
- ▶ Wind and wave climate projections and scenarios

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ace/dcme/>.

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