Special Issue

Beach-Dune System Morphodynamics

Message from the Guest Editors

The sustainable and resilient conservation of beach–dune (eco)systems under a changing climate requires the insights of a number of multidisciplinary studies and approaches. Towards this vision, this Special Issue is devoted to collecting original scientific contributions based on field observations, including novel remote sensing techniques, laboratory experiments, and/or numerical modelling. Papers focusing on the following topics are encouraged:

- Wave–dune interaction processes and beach–dune vulnerability and resilience;
- Innovative dune restoration methods and projects/pilot studies;
- Aeolian process dynamics;
- Novel remote sensing techniques to observe beach–dune evolution;
- Wind/wave–vegetation–sand interaction;
- Beach–dune biodiversity and ecological management;
- Numerical modelling of beach–dune cross and longitudinal evolution;
- Influence of soil properties on the mechanical strength related to hydrodynamic loadings;
- Assessing beach–dune erosion and vulnerability under sea level rise;
- Salt water intrusion in coastal aquifers.

Guest Editors

Prof. Dr. Felice D'Alessandro
Prof. Dr. Giuseppe Roberto Tomasicchio
Dr. Ferdinando Frega

Deadline for manuscript submissions

closed (30 November 2021)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/51462

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
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