

Special Issue

Hydrodynamics and Mixing Processes in Estuaries and Lagoons

Message from the Guest Editor

Estuaries and lagoons represent some of the most dynamic interfaces on Earth, at the boundary between land and open sea, and support some of the most diverse and productive habitats. Their circulation is mainly determined by the fluvial inflow and the introduction of seawater through tidal currents and turbulent mixing. The nature of the mixing depends on the system's morphological characteristics, the magnitude of freshwater discharge, and tidal forcing. Therefore, the understanding of coastal system circulation and salinity patterns is a necessary step towards the development of sound management practices.

Contributions should focus on estuaries and lagoon circulation, transport and mixing, hydrodynamic and hydrographic characteristics (tidal propagation, tidal currents, tidal asymmetries, water salinity, water temperature), salt intrusion and freshwater inflow, mixing processes, stratification, transport timescales (residence time, freshwater fraction).

Guest Editor

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Deadline for manuscript submissions

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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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