# **Special Issue**

# Multiscale, Multiphysics Modelling of Coastal Ocean Processes: Paradigms and Approaches

# Message from the Guest Editors

This Special Issue focuses on papers about necessities, difficulties, and approaches of multiscale and multiphysics modelling, and it includes contributions on assessment of existing models, analysis on their limitations, new methods, model validation, and case studies. It will also focus on collecting and sharing seminal datasets that support model calibration and testing. We welcome high-quality papers from but not limited to the following areas:

- Computational methods
- Physical oceanography
- Marine sciences
- Hydrology
- Environmental science
- Coastal engineering
- Ocean observations

Contributions to this issue will serve as bases and benchmarks, identify future efforts, and lead to better capabilities to simulate multiscale and multiphysics flow problems and to new paradigms for treating various scientific and engineering problems. Keywords:

Multiscale and multiphysics; Coastal ocean processes;

Model assessment and limitation; Model coupling; Mesh resolution; Data analysis; Testbeds

# **Guest Editors**

Prof. Dr. Hansong Tang

Mr. C. Reid Nichols

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Dr. Don Wright

# Deadline for manuscript submissions

closed (30 April 2020)



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# **About the Journal**

# Message from the Editor-in-Chief

The Journal of Marine Science and Engineering (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

# Editor-in-Chief

## Prof. Dr. Charitha Pattiaratchi

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# **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

