



## Ocean Forecasting Systems and Recent Model Developments

Guest Editor:

**Dr. Ivica Janekovic**

Ocean Graduate School and the  
UWA Oceans Institute, The  
University of Western Australia  
(M470), 35 Stirling Highway, 6009  
Perth, Australia

Deadline for manuscript  
submissions:

**closed (10 June 2020)**

### Message from the Guest Editor

Dear Colleagues,

Numerical ocean models have proved to be useful, modern tools, used daily to analyse, predict and advance our knowledge of ocean dynamics. Novel techniques of solving model equations on high-resolution unstructured grids, or multiple nesting inside finite difference models, make them extremely useful not only in the open ocean but in coastal regions as well. Coupled together with atmosphere and ocean wave models or using rapid advances in control theory and data assimilation, they allow an even better picture of the ocean than ever before. In that sense, present ocean models are considered mature, and their usage is demonstrated to be valuable not only for re-analysis but also for forecasting the future of the ocean in near real-time. Our everyday economic, safety and social life strongly depends on such an approach.

The purpose of this Special Issue is to publish the most exciting research with respect to the above subjects, providing a rapid review and publishing, aiming to disseminate knowledge freely.

High-quality papers and novel techniques are encouraged for publication.

Dr. Ivica Janekovic  
*Guest Editor*



[mdpi.com/si/31941](https://mdpi.com/si/31941)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Charitha Pattiaratchi**  
Oceans Graduate School and The  
UWA Oceans Institute, The  
University of Western Australia,  
Perth, WA 6009, Australia

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

## Contact Us

---

*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/jmse](http://mdpi.com/journal/jmse)  
[jmse@mdpi.com](mailto:jmse@mdpi.com)  
[X@JMSE\\_MDPI](#)