



CFD Analysis in Ocean Engineering

Guest Editors:

Dr. Ming Zhao

School of Engineering, Design
and Built Environment, Western
Sydney University, Penrith, NSW,
Australia

Dr. Qin Zhang

Marine Engineering/College of
Engineering, Ocean University of
China, Qingdao 266100, China

Deadline for manuscript
submissions:

closed (25 September 2023)

Message from the Guest Editors

Dear Colleagues,

To accommodate our ever-increasing energy needs, the exploration of oil and natural gas is marching towards the deep sea and tremendous efforts have been made towards developing viable renewable energy sources from the ocean, including wind, tidal current and waves. It is utterly important and challenging to guarantee the safety of offshore structures constructed in the ocean for the purpose of extracting resources and energy from the deep sea. Computational Fluid Dynamics (CFD) is playing an increasingly important role in fundamental and applied research in ocean engineering. This Special Issue aim to collect articles that highlight the research in ocean engineering though CFD analysis. It covers a variety of topics including, but not limited to, wave dynamics, tidal current, offshore fluid–structure interaction, wave and tidal energy and ship hydrodynamics. Papers that report new research methods, fundamental fluid mechanics or applied research outcomes in relevant areas are welcome.





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI