

Special Issue

Marine Dynamic Positioning System

Message from the Guest Editors

Marine dynamic positioning system (DPS) has been widely employed in many floating vessels/platforms in the sea and is an important support technology for exploration and exploitation of oceanic resources. A DPS mainly consists of a position measurement system, control system, thrust allocation (TA) system and propulsion system. It is known that vessels/platforms equipped with a DPS use thrusters and main propellers to produce a desired thrust via azimuth/tunnel thrusters, as well as to control maneuvering. Thrust can compensate for environmental forces acting on the vessel/platform to maintain position and head as closely as required to some desired position in the horizontal plane. DPS has also become one of key technologies for Marine Autonomous Surface System. This Special Issue will focus on recent developments in marine dynamic positioning system. Topics of interest include, but are not limited to:

- Advanced control strategy for DPS;
- Thrust allocation method for DPS;
- Low-level thruster controller for DPS;
- Hydrodynamic performance analysis method for DPS;
- Cooperative control for DPS;
- Hybrid control for DPS;
- Decision making strategy for DP vessels;
- Case studies.

Guest Editors

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Deadline for manuscript submissions

closed (10 January 2023)



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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

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