Special Issue

Control and Optimization of Ship Propulsion System

Message from the Guest Editor

Marine ships experience multiple-source disturbances on propulsion systems in practice due to marine environment disruptions induced by waves, wind, currents, structural vibration, mechanical friction, and modelling errors. These multiple-source disturbances can be divided into the external disturbances, the inner disturbances, and the modelling uncertainties, which present strong coupling effects. Coupling disturbances would affect the control effects of ship propulsion system, such that the movement performance of the ships would be degraded. Therefore, the ship propulsion systems should be controlled by advanced control and optimization schemes. The advanced motion control schemes, such as disturbance observer-based control, sliding mode control, and robust control, have been widely applied in ship propulsion systems. This call for papers aims to provide an opportunity for researchers and practitioners to exchange the latest theoretical and technical achievements in the advanced control and optimization of ship propulsion system.

Guest Editor

Prof. Dr. Xin Hu
1. School of Mathematics and Statistics Science, Ludong University, Yantai 264025, China
2. Ulsan Ship and Ocean College, Ludong University, Yantai 264025, China

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Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

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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
School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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