Special Issue

Track Planning with Automatic Obstacle Recognition and Avoidance for Maritime Vessels

Message from the Guest Editor

Machine learning and artificial intelligence (AI) have expanded to several fields, from robotics to economic models, and enabled real-time algorithms to help plan the course of autonomous, non-autonomous, manned, or unmanned aircraft and surface vehicles. Especially for maritime vessels, and with automation and digitalization becoming increasingly central in their operation, optimum routing, path planning, and collision (with vessels, large objects, or large marine mammals) avoidance in complex sea environments emerge as areas where AI can play a pivotal role; in addition, multi-objective optimization algorithms, fuzzy logic, and other mathematical tools can solve complex problems in a practical and applied manner for use by modern marine vehicles.

Guest Editor

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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.

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