

Special Issue

Multi-Source Data Supported Maritime Traffic Knowledge Discovery for Autonomous Ship Navigation

Message from the Guest Editors

The shipping industry has become a critical component of global logistics along with continuous advancements in science and technology. Smart ships are proposed and developed for the purpose of enhancing maritime traffic safety and efficiency. Multi-source maritime data supported traffic situation awareness and knowledge discovery helps smart ships obtain precise traffic environmental information. Smart ships may encounter varied yet unexpected navigation challenges. For instance, smart ships may fail to identify nearby ships under adverse weather conditions even if they are deployed with varied visual/ non-visual sensors. In this way, smart ships may make unreasonable navigation decisions, which can trigger severe maritime traffic accidents. We also recommended developing robust ship navigation and identification models to help autonomous ships safely sail in waterways, such as ship detection and collision avoidance, ship route optimization, etc.

Guest Editors

Dr. Xinqiang Chen

Prof. Dr. Huafeng Wu

Prof. Dr. Dezhi Han

Dr. Octavian Postolache

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

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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.

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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