

Special Issue

The Role of Maritime Automatic Identification System (AIS) and Communication in Achieving Net Zero GHG

Message from the Guest Editors

For more than two decades, the Automatic Identification System (AIS) has been used to share relevant maritime navigation data. It is a simple system that continues to provide numerous benefits for maritime surveillance, as demonstrated by various applications that use AIS data to reconstruct ship trajectories, estimate times-of-arrival at ports, quantify ship emissions or detect illegal activities at sea, among other uses. AIS data analysis are important in environmental studies on maritime transport, facilitating the development of strategies to achieve Net Zero GHG emissions through alternative fuels, renewable energies and green corridors. A new system (VHF Data Exchange System (VDES) complements the AIS, allowing higher data traffic rates. New maritime communications have also emerged, such as e-navigation, which facilitates data exchange between the various stakeholders in the maritime environment (port infrastructure, ships, search and rescue services, climate resilience, etc.). This Special Issue focuses on contributions in the field of maritime communications which enable much more sustainable maritime transport.

Guest Editors

Dr. Francisco Cabrera

Instituto para el Desarrollo Tecnológico para la Innovación en Comunicaciones (IDeTIC), Universidad de las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Dr. Alba Martínez-López

Mechanical Engineering, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

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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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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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