



Special issue on “Data Fusion Techniques for Oceanic Target Interpretation”

Guest Editors

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Interpreting marine targets using remote sensing can provide critical information for various applications, including environmental monitoring, oceanographic research, navigation, and resource management. With the development of observation systems, the ocean information acquired is multi-source and multi-dimension. Data fusion, as a general and popular multi-discipline approach, can effectively use the obtained remote sensing data to improve the accuracy and reliability of oceanic target interpretation. This special issue will present an array of tutorial-like overview papers that aim to invite contributions on the latest developments and advances in the field of fusion techniques for oceanic target interpretation. In agreement with the approach and style of the Magazine, the contributors to this special issue will pay strong attention to creating a balanced mix between ensuring scientific depth, and dissemination to a wide public which would encompass remote sensing scientists, practitioners, and students.

The topics of interest include (but are not limited to)

- Multi-source remote sensing applications of human maritime activities, such as fisheries monitoring, maritime emergency rescue, etc.
- Multi-source remote sensing detection and evaluation of marine hazards
- Multi-source remote sensing detection, recognition, and tracking of marine man-made target
- Detection and sensing the changes in Arctic sea ice by multi-source remote sensing data
- Artificial Intelligence for multi-sensor data processing.
- Fusion of remote sensing data from sensors at different spatial and temporal resolutions
- Description and analysis of data fusion products such as databases that can integrate, share, and explore multiple data sources

Format and preliminary schedule.

Articles submitted to this special issue of the IEEE Geoscience and Remote Sensing Magazine must contain significant relevance to geoscience and remote sensing and should have noteworthy tutorial value. Selection of invited papers will be done on the basis of 4-page White papers, submitted in double-column format. These papers must discuss the foreseen objectives of the paper, the importance of the addressed topic, the impact of the contribution, and the authors' expertise and past activities on the topic. Contributors selected on the basis of the White papers will be invited to submit full manuscripts. Manuscripts should be submitted online at <http://mc.manuscriptcentral.com/grsm> using the Manuscript Central interface. Prospective authors should consult the site <http://ieeexplore.ieee.org/servlet/opac?punumber=6245518> for guidelines and information on paper submission. Submitted articles should not have been published or be under review elsewhere. All submissions will be peer reviewed according to the IEEE and Geoscience and Remote Sensing Society guidelines.

Important dates:

August 1, 2023	White paper submission deadline
September 1, 2023	Invitation notification
November 1, 2023	Full paper submission deadline
March 1, 2024	Review notification
June 1, 2024	Revised manuscript due
September 1, 2024	Final acceptance notification
October 1, 2024	Final manuscript due
January 2025	Publication date