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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“Enhancing Remote Sensing of Coastal Areas through Multi-Sensor Data Fusion”

The rapid advancement of remote sensing technology has led to the emergence of very high-resolution (VHR) imaging sensors and other technologies deployed on both visible and spaceborne vehicles. Additionally, one of the most popular methods, remote sensing data fusion, combines data from sensors installed on satellites, airliners, and popularity structures with varying geographic and frequency objectives to create fused data that becomes more specific than data collected from all the sensors separately. Coastal areas are remarkably relevant to humankind, serving as vital hubs for progress in society and the economy. Multiple sensors must be used since a single sensor or survey cannot accurately capture a component's whole set of attributes. Numerous applications may be found for the commercial internet of things. For this reason, handling multi-sensor fusion data is crucial. A particular combination, or the integration of data, can create more. The Multi-Sensor Data Fusion aspects all emphasize the necessity of creating novel data analysis techniques that can manage remote sensing data, supporting the use of integrated and sustainable systems. Throughout the field of remote sensing analysis, characteristic partitioning is among the most applicable methods for data pretreatment. In order to increase the effectiveness of smart image analyzing techniques and make it easier for specialists to comprehend and apply the collected remote sensing intelligence, its primary objective is to constantly convert visual features into isolated ones. The analysis makes use of the Special Issue on Remote Sensing of the Coastal Area to emphasize recent developments in the field's understanding of the coastal area's remote sensing and to establish several development goals for the area. Multi-sensor data fusion techniques were developed from several fields, such as neural networks, analytical forecasting, recognizing trends, and others. An introduction to data fusion applications, process diagrams, and the identification of relevant methodologies are all covered in this instructional section.

Papers are invited that consider, but are not limited to, the following themes:

The broad topics include (but are not limited to):

- An evaluation of effective uses for spacecraft remote sensing in coastal areas
- Analysis of spectrum and landcover projection with multi-sensor data fusion methods
- Geomorphological and ecological vulnerability indicator modelling using multi-sensor data fusion
- Coastal area recognition using a combination of information and multi-sensor data
- Understanding eddy-induced the rise in the southern coastal area using remote sensing
- Multi-sensor data fusion for resource transfer and hydrology prediction of parameters
- Utilizing multi-sensor fusion methods for coastal mangrove ecosystem remote sensing
- Integration of multi-sensor features for high-spatial location extraction in transitory developments
- Land-surface temporal recovery using multi-sensor fusion at high geographical improvements
- Coastal area tracking using a multi-sensor setting: a method for developing

Schedule

01 Oct 2024 Submission system opening

30 Jun 2025 Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Enhancing Remote Sensing of Coastal Areas through Multi-Sensor Data Fusion**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that since Jan. 1, 2024, IEEE J-STARS, as a fully open-access journal, is charging a flat publication fee \$1,496 per paper.

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