

Special Issue on Ocean and Sea Ice Applications of SAR

Call for Papers

We call for papers covering advances in the field of ocean and sea ice science and information retrieval techniques based on synthetic aperture radar (SAR) systems. The scope of this special issue covers image and signal processing, geophysical algorithm development, pattern recognition methodology, physical and statistical modeling, change detection, polarimetric SAR (PolSAR), and interferometric (INSAR) techniques. We invite original research articles as well as review articles. Both theoretical and experimental papers are welcome.

A special emphasis of this call highlights the Arctic Ocean. At high latitudes, air- and space-borne SAR systems are particularly useful for environmental monitoring of the vast open oceans and sea ice cover. The retreat and thinning of the Arctic sea ice cover and the increase in open water extent, in combination with the increased activity within oil and gas exploitation and production, shipping, transportation, and tourism, drives a high demand for advanced techniques and research within the field of remote sensing of the Arctic. In this context, this special issue is seen as particularly timely, although it has no particular geographical focus. Potential topics include, but are not limited to:

- Sea ice segmentation and retrieval of sea ice characteristics
- Sea ice drift estimation, detection, and tracking of ice object
- Ocean feature observations and evolving observational techniques for current detection
- Oil spill detection and characterization
- Ship and/or wake detection, vessel, and ocean clutter modeling

Before submission authors should carefully read over the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/js/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/js/ocse/> according to the following timetable:

Manuscript Due	Friday, 9 January 2015
First Round of Reviews	Friday, 3 April 2015
Publication Date	Friday, 29 May 2015

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