Ship Detection Using Polarimetric Radarsat 2 Data And

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Ship Detection Using Polarimetric Radarsat

Ship detection using Synthetic Aperture Radar (SAR) has been a topic of considerable interest in the recent years, and the increased availability of multi-polarimetric high resolution SAR data has favored the emergence of new techniques for this application. Among many polarimet-ric detectors proposed in the literature [1] [2], Constant False Alarm Rate (CFAR) detection schemes have been broadly developed and applied .

SHIP DETECTION USING POLARIMETRIC RADARSAT-2 DATA AND ...

Ship detection using polarimetric RadarSat-2 data and multi-dimensional coherent Time-Frequency analysis Canbin Hu 1, Laurent Ferro-Famil , Camilla Brekke2, Stian Normann Anfinsen 2 1 University of Rennes 1, IETR, SAPHIR team, France 2 University of Tromsø, Department of Physics and Technology, Norway Jan. 2013

Ship detection using polarimetric RadarSat-2 data and ...

Request PDF | Ship detection using polarimetric Radarsat-2 | The scattered wave polarization anisotropy was shown to be very promising for ship detection using polarimetric C-band Convair 580 SAR [1].

Ship detection using polarimetric Radarsat-2 | Request PDF

Abstract: In this paper, we proposed a

complete polarimetric covariance difference matrix [CP]-based algorithm for ship detection in polarimetric synthetic aperture radar (PolSAR) imagery. To calculate [C P], we first developed a scheme to reflect the polarimetric scattering differences between ship pixel (SP) and its neighboring pixels (ISPs) and, then, dividedly accumulated the amplitude and phase differences between SP and ISPs.

Ship Detection From PolSAR Imagery Using the Complete ...

system can be used to detect smaller ships than dual polarization or single polarization systems. The RADARSAT Constellation Mission (RCM) will provide CP as an operational mode, which could be beneficial to ship detection activities. It is recommended that the CP mode be considered for wide area surveillance, in particular, for ship detection.

Ship detection using RADARSAT-2

Fine Quad Mode and ...

Polarimetric information is investigated for ship detection and characterization at operational satellite synthetic aperture radar (SAR) incidence angles (20°-60°). It is shown that among the conventional single-channel polarizations (HH, VV, or HV), HV provides the best ship-sea contrast at incidence angles smaller than 50°.

Ship detection and characterization using polarimetric SAR

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Ship Detection Using Polarimetric Radarsat 2 Data And

Preliminary results for ship characterization using polarimetric information are also presented. This research is motivated by airborne/spaceborne surveillance applications such as land and coastal surveillance missions using SAR/PolSAR imagery.

Ship Detection and Characterization Using Polarimetric SAR ...

The added value of polarimetric RS2 information for ship detection is demonstrated using wide swath (50 km)

polarimetric RADARSAT-2 data collected at 29° and 40° incidence angle over vessels (validated with Automatic Identification System data) in the Strait of Georgia, near Vancouver, Canada.

Optimization of the Degree of Polarization for Enhanced ...

Polarimetric data are expected to improve ship target detection and possibly classification. However it will only be suitable for ship tracking or perhaps surveillance in certain regions limited in size and strategically or commercially important for ship traffic, due to limited swath coverage.

Ship Detection | Natural Resources Canada

Owing to these limitations, researchers focus on ship detection with polarimetric SAR data. Traditional single-polarization SAR data is not sufficient for ship detection in that it cannot fully characterize the scattering mechanisms. Many researchers have explored the use

of polarimetric information for ship detection.

Improving Ship Detection with Polarimetric SAR based on ...

Data from these family of SAR are very useful in several applications in- volving terrain to oceans which are clearly depicted in[1]. The polarimetric data analysis from Convair-580 and RADARSAT- 2 have resulted many successful studies in fields ranging from ship-detection[2] , land-use pattern, crop classification.

Supervised Classification of RADARSAT-2 Polarimetric Data ...

In this article, the added value of polarimetric SAR information for enhanced ship detection is demonstrated using polarimetric RADARSAT-2 (RS2) data collected over vessels (validated with ...

Optimization of the Degree of Polarization for Enhanced ...

Ship detection is a key topic for the surveillance of maritime areas largely due to the capability to acquire valuable images independent of solar illumination and (to some extent) weather conditions. The studies on POLSAR target detection mainly exploite the polarimetric statistical and scattering information.

SHIP DETECTION WITH RADARSAT-2 QUAD-POL SAR DATA USING A ...

By using polarimetric RadarSat-2 data over various scenes, experimental results demon-strate that, the proposed method can efficiently enhance contrast between targets and background clutters in terms of ship detection.

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It is an 8-beam ScanSAR mode with approximately 50 m resolution in range and azimuth, NESZ of > -22 dB, 4 looks, and a 350 km imaging swath. It is comparable to the RADARSAT-1/2

ScanSAR narrow modes. - Ship detection mode: To optimize ship detection performance, the fundamental need is to maximize the ship signal to “background noise” ratio.

RADARSAT Constellation - eoPortal Directory - Satellite ...

By taking into account the imaging mode, incidence angle, and polarization mode of SAR imagery, it implements the adaptive ship candidate detection in spaceborne SAR imagery. Experimental results show that the adaptive ship candidate detection is able to detect ship targets in a fast, efficient and robust way.