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Ship Detection Using Polarimetric Radarsat

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

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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 ...

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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

SHIP DETECTION USING POLARIMETRIC RADARSAT-2 DATA

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AND ...

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

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particular, for ship detection.

Ship detection using RADARSAT-2 Fine Quad Mode and ...

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

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Optimization of the Degree of Polarization for Enhanced ...

For the former, many factors affect the imaging of wakes on SAR images, such as the state of the sea, stationary ships and radar imaging parameters; 37% of ships could not be detected using only

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their wake with ERS-1 and Seasat SAR data , and the figure is expected to be larger with RadarSAT-1 because of its lower HH-polarization signal-to-noise ratio (SNR). The latter is effective to detect ship's signatures whose intensity is larger than the threshold.

Improving Ship Detection with

Read Online Ship Detection Using Polarimetric Radarsat 2 Data And **Polarimetric SAR based on ...**

Abstract: This paper examines the benefits of using fully polarimetric SAR imagery for ship detection. There are three related aspects to the work. First, RadarSat-2 quad-pol stripmap imagery is used to compare the performance of various ship detection algorithms/methods. The comparison is

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based on the use of ROC curves.

Comparison of ship detectors for polarimetric SAR imagery ...

Optimization of the Degree of
Polarization for Enhanced Ship Detection
Using Polarimetric RADARSAT-2.

Abstract: The scattered wave is
represented in terms of two independent

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and rotation invariant parameters: the degree of polarization (DoP) and the total scattered intensity R_0 . The scattered wave polarization signature is introduced as a convenient graphical representation of the variations of the two scattered wave observable parameters as a function of the transmitting antenna polarization.

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Optimization of the Degree of Polarization for Enhanced ...

Ship Detection It has been demonstrated that RADARSAT-1 data in combination with an automated target detection system can provide operational detection reliability (up to 95%) using those beams that are best suited to ship

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detection. Ship detection using SAR relies either on the detection of the ship itself or detection of the ship wake.

Ship Detection | Natural Resources Canada

Abstract: Monitoring and detection of ships and oil spills using synthetic aperture radar (SAR) have received a

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considerable attention over the past few years, notably due to the wide area coverage and day and night all-weather capabilities of SAR systems. Among different polarimetric SAR modes, dual-pol SAR data are widely used for monitoring large ocean and coastal areas.

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Ship and Oil-Spill Detection Using the Degree of ...

CFAR Ship Detection in
Nonhomogeneous Sea Clutter Using
Polarimetric SAR Data Based on the
Notch Filter. Abstract: Synthetic aperture
radar (SAR) ship detection is an
important research topic in the field of
maritime applications. The geometrical

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perturbation-polarimetric notch filter (GP-PNF) was recently proposed to be a promising tool and its usefulness in exploiting polarimetric SAR information for ship detection was demonstrated.

**CFAR Ship Detection in
Nonhomogeneous Sea Clutter Using
...**

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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 exploit the polarimetric statistical and scattering information.

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

Compact polarimetric data exploitation, especially in hybrid-polarimetric (HP) mode, is currently attracting increasing interest due to the new generation of synthetic aperture radar (SAR) systems....

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Ship Detection Using Compact Polarimetric SAR Based on the ...

With the launch of EnvisatASAR, dual-polarization data became available, and ship detection algorithms using these dual-pol data began to appear (Olsen and Wahl, 2003). These efforts continued with the launch of ALOS-

Read Online Ship Detection Using Polarimetric Radarsat 2 Data And PALSAR, TerraSAR-X and Radarsat-2.

On the use of compact polarimetry SAR for ship detection ...

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

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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 ...

The polarimetric data analysis from

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Convair-580 and RADARSAT- 2 have resulted many successful studies in fields ranging from ship-detection, land-use pattern, crop classification.

Supervised Classification of RADARSAT-2 Polarimetric Data ...

Abstract Polarimetric information is investigated for ship detection and

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characterization at operational satellite SAR incidence angles (20° to 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° .

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RADARSAT-2 SPECIAL ISSUE, JUNE

...

Compact polarimetry (CP) synthetic aperture radar (SAR) is a form of coherent dual-pol SAR that has been shown to have great potential for maritime surveillance applications such as ship and ice ...

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On the use of compact polarimetry SAR for ship detection ...

Using synthetic aperture radar data to detect and identify ships. A novel approach shows the value of polarimetric Envisat data for a range of important security and environmental applications. 09 March 2008. Vassilis Tsagaris, Giorgos Panagopoulos, and

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Vassilis Anastassopoulos. Synthetic aperture radar (SAR) systems are active sensors offering unique high spatial resolution regardless of weather or other conditions, with wide area coverage over swaths up to 500km across.

Using synthetic aperture radar data to detect and identify ...

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evaluating ship detection performance. By using this method, three polarization features, including circular polarization ratio, relative phase and roundness, were analyzed selectively. Experiments performed using hybrid mode emulated from C-band RADARSAT-2 full polarimetric SAR data validate the

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