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Ship Detection Using Polarimetric Radarsat

SHIP DETECTION USING POLARIMETRIC RADARSAT-2 DATA AND MULTI-DIMENSIONAL COHERENT TIME-FREQUENCY ANALYSIS

Canbin Hu(1) ; (2), Laurent Ferro-Famil , Camilla Brekke(3), Stian Normann Anfinssen(3) (1)National University of Defense Technology, College of Electronic Science and Engineering, China (2)University of Rennes 1, Institute of Electronics and Telecommunications of Rennes, France

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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 Anfinson 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 ...

Remote sensing of vessels is an important tool for ship safety and security at sea. In this work, we are interested in improving ships detection using polarimetric Synthetic Aperture Radar (SAR). To develop the appropriate method, different processing

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techniques are applied on Pol-SAR images such as fusion and polarimetric decompositions and we use adaptive threshold detectors to assess the ...

Application of Polarimetric-SAR Decompositions on 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 polarimetric scattering differences between ship pixel (SP) and its neighboring pixels (ISPs) and, then, dividedly accumulated the amplitude and ...

Ship Detection From PolSAR Imagery Using the Complete ...

Polarimetric information is investigated for ship detection and

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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° . Furthermore, HH polarization permits the best ship-sea ...

Ship detection and characterization using polarimetric SAR

Ship Detection From PolSAR Imagery Using ... -based algorithm for ship detection in polarimetric synthetic aperture radar (PolSAR) ... and one Radarsat-2 C-band data set with 8 ships.

Ship Detection From PolSAR Imagery Using the Complete

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Ship Detection Using Polarimetric Radarsat 2 Data 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 vessels (validated with Automatic Identification System data) in the Strait of Georgia, near Vancouver, Canada.

Optimization of the Degree of Polarization for Enhanced

...

Ship detection is a key requirement in the military, coastguard, fisheries, and commercial transportation sectors. Ship detection by synthetic aperture radar (SAR) has been studied extensively.

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For example, RADARSAT-1 is a single-channel C-band SAR with HH polarization (i.e., horizontal transmit, horizontal receive antenna polarization) that ...

Can. J. Remote Sensing, Vol. 31, No. 1, pp. 122-131, 2005

...

A statistical approach to point target detection in a clutter background is used to delineate the expected performance of the RADARSAT SAR (C-band HH polarization) for ship detection, and to compare the expected ship detection performance for the various RADARSAT SAR beam modes.

Ship Detection by the RADARSAT SAR: Validation of ...

PolSAR ship detection algorithms developed using airborne data to RADARSAT-2 Fine Quad (FQ) Mode data is evaluated. Compact polarimetric (CP) SAR is an approach to dual polarization SAR.

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Ship detection using RADARSAT-2 Fine Quad Mode and ...
the LRT PolSAR Ship Detection Application will be able to provide a ship detection and feature extraction capability using RADARSAT-2 images to contribute to the requirements of the Canadian Forces for wide area ocean surveillance. Liu, C., Meek, A. 2005. Likelihood Ratio Test Polarimetric SAR Ship Detection Application. DRDC Ottawa TM 2005-243.

Likelihood Ratio Test Polarimetric SAR Ship Detection ...
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. With the launch of RADARSAT-2 on December 14, 2007, it became possible to have a SAR system having modes of multiple polarization including full polarimetry and ...

Supervised Classification of RADARSAT-2 Polarimetric

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Data ...

a) RADARSAT-1 C-HH image and b) ERS-1 C-VV image showing enhance ship detection at HH and better wake detection at VV . Multi-polarization and polarimetric data are expected to allow the user to exploit various polarization combinations to optimize ship detection applications. For example for ship surveillance a VV and VH combination would be ...

Ship Detection - Natural Resources Canada

Polarimetric whitening filter and Polarimetric notch filter method, the proposed method enhance ship-sea target appears lost.

contrast ratio and show higher detection ability. Index Terms—ship detection, polarimetric synthetic aperture radar, Radarsat-2, notch detector, freeman decomposition. 1.

INTRODUCTION

SHIP DETECTION WITH RADARSAT-2 QUAD-POL SAR DATA

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USING A ...

Touzi R, Charbonneau F, Hawkins RK, Vachon PW, Ship Detection and Characterization Using Polarimetric SAR; Canadian Journal of Remote Sensing (RADARSAT 2 Special Issue), June 2004. Google Scholar 8.

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 ...

Optimization of the Degree of Polarization for Enhanced ...

Ship Detection Using X-Bragg Scattering Model Based on Compact Polarimetric SAR Chenghui Cao^{1, 2}, Xingpeng Mao¹, Jie

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