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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

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

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Ship detection using polarimetric
RadarSat-2 data and multi-dimensional
coherent Time-Frequency analysis
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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 techniques
are applied on Pol-SAR images such as
fusion and polarimetric decompositions

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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 characterization at operational satellite synthetic aperture radar (SAR) incidence angles (20° - 60°). It is shown that among the conventional single-channel

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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. 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 ...

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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.

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

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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 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

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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 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.

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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 Zhang², Junmin Meng², Xi Zhang², Genwang Liu² 1.Harbin Institute of Technology (HIT), Harbin, China, chenghui_cao@126.com.

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