
Ship Detection Using Polarimetric Radarsat 2 Data And

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[Ship Detection Using Polarimetric Radarsat](#)

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

simulated using RADARSAT-2 FQ data Polarimetric SAR (PolSAR) ship detection algorithms were applied to both the FQ and simulated CP data From statistical decision theory, the likelihood ratio test with Neyman-Pearson criterion was used to define a decision variable

SHIP DETECTION USING POLARIMETRIC RADARSAT-2 DATA ...

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 Denfense Technology, College of Electronic Science and Engineering, China (2)University of Rennes 1, Institute of Electronics and ...

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 Anfinssen 2 1 University of Rennes 1, IETR, SAPHIR team, France 2 University of Tromsø, Department of Physics and Technology, Norway Jan 2013

DETECTION OF SHIP TARGETS IN POLARIMETRIC SAR DATA ...

DETECTION OF SHIP TARGETS IN POLARIMETRIC SAR DATA USING 2D-PCA DATA FUSION C Theoharatos a, *, detection accuracy of ship targets in polarimetric data is proposed, based on 2D principal components analysis (2D- comes from RadarSat-2 satellite mission and was acquired on

Supervised Classification of RADARSAT-2 Polarimetric Data ...

Many studies have been undertaken for classification using RADARSAT-2 till date They include classification of terrain classes using Random Forest[3], ship detection[2][4], oil slick characterization[5], crop monitoring of rice in China[6] and identification of potato and rice fields using RADARSAT-

SHIP DETECTION FROM POLARIMETRIC SAR IMAGES

Polarimetric SAR (PolSAR) systems provide four channel capabilities to measure the four scattering factors of a target [6] Earlier work for ship detection by using PolSAR data has addressed the design of the optimum detector under the assumption of known target and clutter scattering parameters

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

contrast ratio and show higher detection ability Index Terms—ship detection, polarimetric synthetic aperture radar, Radarsat-2, notch detector, freeman decomposition 1 INTRODUCTION The aim of this study described in this paper is ship detection based on Polarimetric Synthetic Aperture Radar(PolSAR) Ship detection is a key

Processing and Analysis of Polarimetric Ship Signatures ...

Polarimetric SAR can be used to improve ship detection and provide some classification information For Dominion Victory, a six-fold to an eleven-fold reduction in the probability of missed detection was observed by using polarimetric information, as compared to a single channel radar with the same probability of false alarm

SHIP DETECTION USING SAR POLARIMETRY. THE ...

SHIP DETECTION USING SAR POLARIMETRY THE DEVELOPMENT OF A NEW polarimetric representation of targets contained in SAR Testing with RADARSAT-2 full polarimetric data

in Automatic Ship Detection and Classification

Progress in Automatic Ship Detection and • Using polarimetric information Vessel detection versus marine applications • The vessel detection is only a technical part of marine applications based on spaceborne SAR «Ship detection by the RADARSAT SAR: Validation of

Ship Discrimination Using Polarimetric SAR Data and ...

Ship detection and discrimination using Synthetic Aperture Radar (SAR) has been a topic of considerable interest in the recent years, and the increasing availability of multi-polarimetric high resolution SAR data has favored the emergence of new techniques for this application [1-5]

Ship Detection Using X-Bragg Scattering Model Based on ...

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 ¹Harbin Institute of Technology (HIT), Harbin, China, chenghui_cao@126com

CAN. JOUR. OF REM. SENS., RADARSAT-2 SPECIAL ISSUE, ...

CAN JOUR OF REM SENS, RADARSAT-2 SPECIAL ISSUE, JUNE 2004 1 Ship detection and characterization using polarimetric SAR R Touzi and F Charbonneau and ...

A PolSAR ship detector based on a multi-polarimetric ...

Ship detection can be significantly improved by using polarimetric synthetic aperture radar (PolSAR) imaging In this article, we propose a PolSAR ship detection method based on the use of multi-featured polarization by using the visual attention model Three polarimetric features, namely, the polarimetric contrast, the polarimetric scatter-

Improving Ship Detection with Polarimetric SAR based on ...

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 ...

Azimuth Ambiguities Removal for Ship Detection Using Full ...

76 IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, VOL 52, NO 1, JANUARY 2014 Azimuth Ambiguities Removal for Ship Detection Using Full Polarimetric X-Band SAR Data

A Ship Detector Applying Principal Component Analysis to ...

ship detection using the covariance/coherency matrix Apart from the polarimetric SPAN (total power) detector [9], the Polarimetric Whitening Filter (PWF) detector [10] is the most-used algorithm for ship detection It uses all the channels to reduce optimally the speckle [11] ...

RADARSAT-2 and Polarmetric Applications

RADARSAT-2 Overview MDA is the owner and operator of RADARSAT-2 and holds the worldwide distribution rights for all products Launched in Dec 2007 with a multi-mode, C-Band SAR Mission duration: 7 years Data continuity from RADARSAT-1 -all RADARSAT-1 imaging modes supported -plus many additional capabilities

A PHYSICALLY-BASED APPROACH TO OBSERVE SHIPS IN ...

As a matter of fact, many studies have been undertaken on the use of polarimetric information for radar-based ship detection Statistically-based approaches, eg Constant False Alarm Rate (CFAR) lters or convolution between different polarimetric channels, are employed to detect ships in both dual- and full-polarimetric SAR data [2]

Automatic ship detection based on satellite SAR

Automatic ship detection based on satellite SAR Ship Detection in Multi Polarimetric and High Resolution In the future, we will FFI-rapport 2008/00847 7 also get access to fully polarimetric SAR data (eg the Canadian RADARSAT-2 and the German TerraSAR-X satellites) Multi-polarised SAR data can lead to a more robust and accurate