

Ship Detection Using Polarimetric Radarsat 2 Data And

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

Markov-chain-based CFAR detector for polarimetric data , using low-level data fusion and high-level decision fusion , which considered both correlation between neighboring pixels and pdf information in CFAR detection. In this work, a novel data fusion scheme for improving the detection accuracy of ship targets in polarimetric data is proposed ...

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 Anfinnsen(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

Improving Ship Detection with Polarimetric SAR based on ...

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.

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

Ship Detection Using X-Bragg Scattering Model Based on Compact Polarimetric SAR Chenghui Cao1, 2, Xingpeng Mao1, Jie Zhang2, Junmin Meng2, Xi Zhang2, Genwang Liu2 1.Harbin Institute of Technology (HIT), Harbin, China, chenghui_cao@126.com.

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

Polarimetric information can be used to characterize the target and benefit for ship classification in SAR image. In this paper, three types of features from fine quad-polarization Radarsat-2 SAR image, such as target to clutter ratio, distribution of scatter point, coherent decomposition component, are analyzed of three types of ships such as bulk carrier, container ship and oil tanker.

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

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

Ship Detection | Natural Resources Canada

Ship detection using polarimetric RadarSat-2 data and multi-dimensional coherent Time-Frequency analysis Canbin Hu 1, Laurent Ferro-Famil , Camilla Brekke2, Stian Normann Anfinnsen 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 USING ...

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.

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

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 R.K. Hawkins and P.W. Vachon

Ship Detection Using Polarimetric Radarsat-2 Data and ...

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 Automatic Identification System (AIS) data) in the Strait of Georgia, near Vancouver, Canada.

Processing and Analysis of Polarimetric Ship Signatures ...

On the use of compact polarimetry SAR for ship detection. Author links open ... The objective of our research is to explore the potential of CTRLR compact polarimetry data in ship detection applications. ... Liu, C., Vachon, P.W., English, R.A., Sandirasegaram, N., 2010. Ship Detection using RADARSAT-2 Fine Quad Mode and Simulated Compact ...

Optimization of the Degree of Polarization for Enhanced ...

The convolution between co-polarization amplitude only data is studied to improve ship detection performance. The different statistical behaviors of ships and surrounding ocean are characterized a by two-dimensional convolution function (2D-CF) between different polarization channels.

Optimization of the Degree of Polarization for Enhanced ...

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 ...

Ship detection performance using simulated dual-polarization RADARSAT constellation mission data. ... the Ship Detection mode is a dual-polarimetric ...

RCM Polarimetric SAR for Enhanced Ship Detection 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 FROM POLARIMETRIC SAR IMAGES

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 X-Bragg Scattering Model Based on ...

information to detect ships. 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.

(PDF) Ship detection performance using simulated dual ...

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.

Analysis of polarimetric ship signatures with Radarsat-2 ...

Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2 Article in IEEE Transactions on Geoscience and Remote Sensing 53(10):5403-5424 · October 2015 ...