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Radar Automatic Target Recognition Atr

Automatic target recognition (ATR) is the ability for an algorithm or device to recognize targets or other objects based on data obtained from sensors. Target recognition was initially done by using an audible representation of the received signal, where a trained operator who would decipher that sound to classify the target illuminated by the radar.

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Automatic target recognition - Wikipedia

Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR) explores both the fundamentals of classification techniques applied to data from a variety of radar modes and selected advanced techniques at the forefront of research, and is essential reading for academic, industrial and military radar researchers, students and engineers worldwide.

Radar Automatic Target Recognition (ATR) and Non ...

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The IET Shop - Radar Automatic Target Recognition (ATR ...

Abstract: The purpose of this paper is to survey and assess the state-of-the-art in automatic target recognition for synthetic aperture radar imagery (SAR-ATR). The aim is not to develop an exhaustive survey of the voluminous literature, but rather to capture in one place the various approaches for implementing the SAR-ATR system. This paper is meant to be as self-contained as possible, and it approaches the SAR-ATR problem from a holistic end-to-end perspective.

Automatic Target Recognition in Synthetic Aperture Radar ...

Introduction. Synthetic aperture radar (SAR) works day and night to provide high-resolution observations of ground scenarios. Specifically, in the field of battlefield information acquisition, automatic target recognition (ATR) technique is often employed to determine the labels of interested targets in a SAR image.

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Target Recognition of Synthetic Aperture Radar Images ...

The automatic target recognition system uses geometric shape and size signatures from target models to detect and recognize targets under heavy canopy and camouflage cover in extended terrain scenes. The system performance was demonstrated on five measured scenes with targets

Pose-Independent Automatic Target Detection and ...

Abstract— Automatic Target Recognition (ATR) for military applications is one of the core processes towards enhancing intelligence and autonomously operating military platforms. Spurred by this and given that Synthetic Aperture Radar (SAR) presents several advantages over its counterpart data domains,

Automatic Target Recognition on Synthetic Aperture Radar ...

However, conventional ATR requires high resolution data commonly obtained at much closer distances. The software developed by Raytheon and team members BAE Systems and SAIC, is designed to provide automatic target recognition system at standoff range, based on feeds obtained from radars, carried by manned or unmanned aircraft.

Automatic Target Recognition by Radar Could improve Air ...

Automatic target detection and discrimination algorithm applicable to ground penetrating radar data. Abeynayake, Canicious. Tran, Minh D. Abstract. Ground Penetrating Radar (GPR) is considered as one of the promising technologies to address the challenges of detecting buried threat objects. However, the success rate of the GPR systems are limited by operational conditions and the robustness of automatic target recognition (ATR) algorithms embedded with the systems.

Automatic target detection and discrimination algorithm ...

was assessed in terms of the performance of automatic target recognition (ATR) when applied to

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the images formed from disjoint K-space. Underlying this was an understanding that an ATR system should only need to be trained once and then be able to be applied to imagery from various different sources,

Radar Automatic Target Recognition based on Disjoint Multi ...

AUTOMATIC target recognition (ATR) is one of the most important decision making tasks for synthetic aperture radar (SAR), in which a high quality SAR image is required to provide some informative target features for recognition.

High Resolution SAR Automatic Target Recognition - SAR-RADAR

Along with the improvement of radar technologies Automatic Target Recognition (ATR) using Synthetic Aperture Radar (SAR) and Inverse SAR (ISAR) has come to be an active research area. SAR/ISAR are radar techniques to generate a two-dimensional high-resolution image of a target.

Automatic Target Recognition of Aircraft using Inverse ...

The MTR program has two phases: a two-year effort that focuses on locating moving targets, as well as detection and imaging; and automatic target recognition (ATR) of the moving target images. This...

synthetic aperture radar (SAR) detection and imaging ...

ABSTRACT: Practical automated target recognition (ATR) capabilities for synthetic aperture radar (SAR) imagery require sustainable and easily updatable target representations as well as generalizability across different SAR sensors and operating conditions. Systems & Technology Research (STR), along with Wright State University, proposes to extend ATR algorithms being developed under the AFRL Compact Automatic Target Recognition and Sustainable Environment (CASE) and DARPA Target Recognition ...

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Radar Agnostic, Low Computation Synthetic Aperture Radar ...

Clustering of the targets is achieved using morphological filters. Target recognition is performed in the last stage of ATR processing. The role of target recognition is to accurately identify target of interest even in the presence of variability in target signatures.

Missile RF seekers being improved through Electronically ...

Deep Learning for Radar and Communications Automatic Target Recognition. This authoritative resource presents a comprehensive illustration of modern Artificial Intelligence / Machine Learning (AI/ML) technology for radio frequency (RF) data exploitation. It identifies technical challenges, benefits, and directions of deep learning (DL) based object classification using radar data, including synthetic aperture radar (SAR) and high range resolution (HRR) radar.

Deep Learning for Radar and Communications Automatic ...

The design of automatic target recognition (ATR) systems based on synthetic aperture radar (SAR) imagery has been an active area of research for decades.

LOW-COMPLEXITY FIXED-POINT CONVOLUTIONAL NEURAL NETWORKS ...

This paper applied block sparse Bayesian learning (BSBL) to synthetic aperture radar (SAR) target recognition. The traditional sparse representation-based classification (SRC) operates on the global dictionary collaborated by different classes. Afterwards, the similarities between the test sample and various classes are evaluated by the reconstruction errors.

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