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Radar Automatic Target Recognition (ATR) and Non

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Abstract: The standard architecture of synthetic aperture radar (SAR) automatic target recognition (ATR) consists of three stages: detection, discrimination, and classification. In recent years, convolutional neural networks (CNNs) for SAR ATR have been proposed, but most of them classify target classes from a target chip extracted from SAR imagery, as a classification for the third stage of ...

ATREngine: An Orientation-Based Algorithm for Automatic ...

The Target Recognition and Adaption in Contested Environments (TRACE) program seeks to develop an accurate, real-time, low-power target recognition system that can be co-located with the radar to provide responsive long-range targeting for tactical airborne surveillance and strike applications.

Pose-Independent Automatic Target Detection and ...

Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR)

(Electromagnetics and Radar) [David Blacknell, Hugh

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qualifying offers. The ability to detect and locate targets by day or night, over wide areas, regardless of weather conditions has long made radar a key sensor in many military and civil applications.

Target Recognition and Adaption in Contested ... -

DARPA

Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR) explores both

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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 ...

The Automatic Target Recognition System in SAIP 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.

Radar automatic target recognition (ATR) and non ... OBJECTIVE: Develop an innovative automatic target recognition (ATR) system that leverages state-of-the-art machine learning technology to automatically find and extract a ship's salient features from its inverse synthetic aperture radar (ISAR) images for high-speed weapons applications.

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.

Automatic Target Recognition in Synthetic Aperture

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Abstract: An automatic target recognition (ATR) algorithm, based on greedy learning of Gaussian mixture model (GMM) is developed. The GMMs were obtained for a wide range of ground surveillance radar targets such as walking person(s), tracked or wheeled vehicles, animals, and clutter.

GMM-based target classification for ground surveillance ...

Abstract The standard architecture of synthetic aperture radar (SAR) automatic target recognition (ATR) consists of three stages: detection, discrimination, and classification. In recent years, convolutional neural networks (CNNs) for SAR ATR have been proposed, but most of them classify target classes from a target chip extracted

automatic target recognition (ATR) | Defense Systems

...

Automatic Target Recognition (ATR) is the methodology used by computers to detect, classify and recognize an object without human interaction. ATR is considered to be one of the most computation-intensive applications due to the amount of images that have to be processed in real-time. For this paper, the mapping of the Second Level of

Deep Learning for End-to-End Automatic Target Recognition ...

Synthetic aperture radar (SAR) automatic target recognition (ATR) systems aim to classify objects present in areas of interest within SAR data. Compared with classical image classi-

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High Resolution SAR Automatic Target Recognition - SAR-RADAR

The Automatic Target-Recognition System in SAIP VOLUME 10, NUMBER 2, 1997 THE LINCOLN LABORATORY JOURNAL 187 The goal of automatic target recognition (ATR) is to detect and recognize objects, such as tanks, in images produced by a laser radar, a synthetic-aperture radar (SAR), or an infrared or video camera. Current ATR methods are not fully au-

Radar Automatic Target Recognition (ATR) and Non ... Radar automatic target recognition (ATR) is one of the directions for modern radar developing and plays great roles in the field of early warning and defense systems. Radar automatic target...

Radar Automatic Target Recognition (ATR) and Non ... Automatic Target Recognition (ATR) is a subject involving the use of sensor data to develop an algorithm for identifying targets of significance. It is of particular interest in military applications such as unmanned aerial vehicles and missile tracking systems.

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

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the target illuminated by the radar .

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arsenal in order to target ships. It is designed to
search for and find enemy ships ...*

*Maritime Target Automatic Target Recognition from
Inverse ...*

*ABSTRACT-Target detection is that the front-end
stage in any automatic target recognition system for
artificial aperture microwave radar (SAR) imagery
(SAR-ATR). The efficaciousness of the detector
directly impacts the succeeding stages within the SAR-
ATR process chain. There*

*IMPROVING SAR AUTOMATIC TARGET RECOGNITION
USING SIMULATED ...*

*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.*

*A Fast and Innovative Approach Towards an
Automatic Target ...*

*The problem of automatic target recognition in ladar
range imagery has been an active topic of research
for a number of years [3, 4]. Automatic target*

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recognition (ATR) involves two main tasks: target detection and target recognition [5]. The purpose of target detection is to find regions of interest (ROI) where a target may be located.

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