

## Radar Automatic Target Recognition Atr And Non Cooperative Target Recognition Nctr Iet Radar Sonar And Navigation

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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.

*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 ...*  
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 ...*  
Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR) 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. However, the ability to automatically and reliably distinguish different targets represents a difficult challenge.

*The IET Shop - Radar Automatic Target Recognition (ATR ...*  
Introduction: Automatic Target Recognition (ATR) of synthetic aperture radar (SAR) images is an area of ongoing research by all branches of the military and large research institutions. These images are being processed to locate interesting objects within them, such as enemy military vehicles – which can be classified by type.

*Automatic Target Recognition in Synthetic Aperture Radar ...*  
Automatic target recognition (ATR), is the ability for an algorithm or device to recognize targets or objects based on data obtained from sensors. The application of automatic target recognition technology is a critical element of robotic warfare. ATR systems are used in unmanned aerial vehiclesand cruise missiles.

*Automatic target recognition | Military Wiki | Fandom*  
Synthetic Aperture Radar (SAR) Automatic Target Recognition (ATR) Parametric Study SAR ATR is a very complex problem that still has not been mastered. SAR ATR is difficult largely due to the fact that SAR imagery exhibits large variability.

*Synthetic Aperture Radar (SAR) Automatic Target ...*  
Handheld, vehicle mounted and air-borne Ground Penetrating Radar (GPR) systems have been identified as potential technology solutions for detection of current and evolving 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.

*Machine learning based automatic target recognition ...*  
from a target changes. Therefore, automatic target recogni-tion (ATR) from SAR imagery (or image) has been studied for many years. The standard architecture of SAR ATR consists of three stages: detection, discrimination, and classi cation. Detec-tion: the rst stage of SAR ATR detects a region of interest (ROI) from a SAR image.

*Deep Learning for End-to-End Automatic Target Recognition ...*  
This paper presents an automatic radar target recognition (ATR) procedure based on complex resonances using the signals provided by ultra wideband (UWB) radars. A target discrimination method is introduced. Several types of obstacles commonly found on platforms have been analyzed; considering this specific application, human body detection and ...

*Automatic radar target recognition of objects falling on ...*  
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 ...*  
Automatic Target Recognition (ATR) technology for missile seekers homing on mobile targets is based on MMW image matching technology. An end-to-end ATR system used in operational environment requires four stages: image enhancement, target detection, target segmentation and target recognition.

*Missile RF seekers being improved through Electronically ...*  
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 ...*  
A real application of SVMs for synthetic aperture radar automatic target recognition (SAR/ATR) is presented and the result is compared with conventional classifiers. The SVMs are tested for classification both in closed and open sets (recognition). Experimental results showed that SVMs outperform conventional classifiers in target classification.

*Support vector machines for SAR automatic target recognition*  
Automatic Target Recognition (ATR) algorithms classify a given Synthetic Aperture Radar (SAR) image into one of the known target classes using a set of training images available for each class. Recently, learning methods have shown to achieve state-of-the-art classification accuracy if abundant training data is available, sampled uniformly over the classes, and their poses. In this paper, we ...

*[2012.09284] Sparse Signal Models for Data Augmentation in ...*  
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 ...*  
Automatic Target Recognition (ATR) algorithms classify a given Synthetic Aperture Radar (SAR) image into one of the known target classes using a set of training images. Recently, learning methods have shown to achieve state-of-the-art classification accuracy if abundant training data is available sampled uniformly over the classes and their poses.

*[PDF] Sparse Signal Models for Data Augmentation in Deep ...*  
The DARPA/AFRL “Moving and Stationary Target Acquisition and Recognition” (MSTAR) program is developing a model-based vision approach to Synthetic Aperture Radar (SAR) Automatic Target Recognition (ATR). The motivation for this work is to develop a high performance ATR capability that can identify ground targets in highly unconstrained imaging