

# Significance based ship detection from SAR imagery.

## Abstract

Synthetic Aperture Radar images has many applications in the surveillance scenario. The advancement in the marine trade have lead to the increase in the no. of ships in the world waters. The usage of using satellite based radar images has been used widely for maritime surveillance as ship detection is relatively simple & independent of climatic changes. Ships can be easily detected in SAR images due to their bright intensity which results due to strong radar backscatter from their metal surface. During unfavourable sea conditions, presence of noise, sea ice and coastline structure, the ship detection is affected as non ship features in the sea also exhibit high intensities in SAR images. So this paper is a ship detection algorithm which is proposed to discriminate ship & non ship targets.

In my final project we present a method to detect ships using SAR image. Here size & location of ships can be estimated. Area of project used are Image recognition & Deep learning. This literature paper is mainly used to differential ship & non ship targets with in the sea.