

Fractal dimension algorithm for automatic detection of oil spills in radarsat-1 sar

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=129408&lokasi=lokal>

Abstrak

This paper introduces a methods for modification of the formula of the fractal box counting dimension. The method is based on the utilization of the probability distribution formula in the fractal box count. The purpose of this method is to use it for the discrimination of oil spill areas from the surrounding features e.g sea surface dimension was able to discriminate between oil spills and look-alike areas. The low wind area had the highest fractal dimension peak of 2.9, as compared to the oil slick and the surrounding rough sea. The maximum error standard deviation of the low wind area was 0.68 which performed with a 2.9 fractal dimension value.