Abstract

The classification of Polarimetric Synthetic Aperture Radar (PolSAR) image using a different decomposition technique has become a very important task after availability of data. In this paper RADARSAT-2 C-band fully polarimetric SAR data is used. This data was in SLC (single look complex) format and was not geocoded. In the present paper different decomposition techniques applied on RADARSAT-2 data for city of British Columbia, Vancouver, Canada and later classified the data using various classification techniques like H-alpha, Wishart H-alpha
and Wishart H-A-alpha. The PolSAR classified image analysis is done on the basis of image parameters like Mean, Median, Standard Deviation and Coefficient Variation. From the result, it is observed that the for classification analysis Wishart H-A-alpha classified image is better than H-alpha and Wishart H-alpha classified image.

References


Index Terms

Computer Science Image Processing
Keywords
Sar  Polsar  Decomposition Technique  Classification.