

SHADOW DETECTION AND RECONSTRUCTION OF IMAGES FROM SATELLITE IMAGES: GIS

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ABSTRACT

The increase in spatial resolution has enabled analysis and detection of images obtained through satellite. To increase the accuracy in image processing, an unwanted shadow needs to be processed effectively. A quality check mechanism governs the false reconstruction problems. In the proposed paper we would like to suggest use of Lib SVM algorithm. The original image obtained from satellite is first supervised to identify shadow and non shadow regions. The shadow region is then filtered using morphological filter and a border is created around shadow. With the help of Lib SVM algorithm the shadow image can be removed using post classification methods and shadow free image can be obtained.

KEYWORDS: Morphological Operator, Pattern Recognition, Reconstruction of Images, Shadow, Spatial Resolution, Vector Machine Approach