Abstract

In recent years, extraction of information from remote sensing images is an active topic of research. Feature extraction from an image is performed by image segmentation by dividing the image into distinct and self-seminar pixel groups. In remote sensing images, large quantity of texture information is present. So, it is difficult and time consuming process to segment objects from the background in remote sensing images. Many algorithms have been proposed for the purpose of segmentation of remote sensing images. Thresholding is a simple technique but effective method to separate objects from the background. A commonly used method, the Otsu method, improves the image segmentation effectively. It is the most referenced thresholding methods, as it directly operates on the gray level histogram. In this project, Otsu thresholding algorithm is used to segment the roads and residential areas from the vegetation areas in remote sensing images.


5. Gonzalez, Rafael; Richard Woods. Digital Image Processing (3rd ed.)


Index Terms

Computer Science  Image Processing

Keywords

Thresholding techniques, Otsu method, image segmentation, optimal threshold, selection range, minimum variance ratio, remote sensing.