APPLICATION OF CANNY EDGE DETECTOR IN REMOTE-SENSING IMAGERY

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Abstract:

Many remote-sensing applications such as image registration, image segmentation, object detection and recognition, etc. use edge detection as a preprocessing stage for feature extraction. There many ways to perform edge detection. The methods based on the first derivative such as Roberts, Prewit and Sobel were studied. Also, an implementation of the Canny edge detector is proposed. The later presented the best performance both visually and quantitatively.