

## **ABSTRACT**

# **MONITORING SYSTEM OF LAND COVER QUALITY USING SEGMENTATION AND CONTENT BASE IMAGE RETRIEVAL METHODS**

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*This paper tries to explore level and accuracy Content Based Image Retrieval method on Landsat imagery. The images include an aerial photography and land satellite photography or Landsat which widely used and recognize for spatial information analysis. The analysis uses mapping of situation or state of earth's surface, particularly the land surface. Landsat can be used to create topographic map, determining of attitude or height model of a certain place in the earth. Aerial photographs are used to detect changes of earth surface, in this work the changes by using Content Based Image retrieval or CBIR. The accuracy changes measurement calculates using precision and recall parameters. In this paper, Landsat images also used to detect the appear and disappear of vegetation and other objects on the earth. More than 100 Landsat images used in this work, and around 15 images were used as queries. The results show that accuracy of image retrieval is a quite good, which more than 75 %.*

*Keywords: Landsat Images, CBIR, Precision Recall*