Abstract

Image processing technology is developing so as to facilitate image processing. Unfortunately, this process can lead to a loss of authenticity and validity of the image. Image forgery is hard to see by naked eye. One type of image forgeries is copy-move/paste which is one of the most difficult cases in the image forgery detection. Copy-move/paste is a method of forgery where the area of same image is duplicated to cover unwanted areas. SIFT and SVD method are methods to detect copy-move/paste forgery.

SIFT *descriptors* and SVD-matching is used in this research. SIFT extract keypoints and be used in matching. SVD-matching perform matching between two keypoints. If its value above threshold, it will be connected by line. With this method is expected to be able to find an area that occurred copy-move/paste forgery and can conclude the image is manupulated by copy-move/paste or not.

Based on the results of research conducted, by applying this method produced a method that can detect the authenticity of an image with an accuracy of 96 percent.

Keywords: SIFT Descriptors, SVD-Matching, Copy-move/paste Forgery, keypoint, Duplicated Region