

Abstract

Image can be used to deliver information and communication. Many current image processing applications make it is easier for user to manipulate the image and not original anymore. Deployment of the image with information that is not genuine or has been tampered can harm various parties. The term used to classify the image that has been manipulated is Image Forgery whose aim to add information (copy-paste) or hide information (copy-move) of an image. Because of the number of acts to manipulate the image is high there are need the solution to detect forgeries image specifically for duplicated region.

Image forgery either copy-paste or copy-move using retrieval techniques on the image area to duplicate and placed in different position in that image. In this study, the detection of duplicated region checked using Center Symmetric-Local Binary Pattern method for feature extraction and Micro-Macro Block approach to get more precise area and exact duplication region.

The results of the research by applying CS-LBP method and Micro-Macro Block approach, the system found a way to detect duplication of an image with accuracy reach 75,22%.

Keyword : *Image forgery, duplicated region, Center Symmetric - Local Binary Pattern(CS-LBP), Micro-Macro Block*