

## **ABSTRACT**

The technology of Android smartphones are now increasing in demand by all levels of society. Android is an alternative operating system which is very useful in some wide range of activities, one of them is photography. Android phones can produce good photos, especially if there's an image processing applications which give some unique effects. One of the effect in this mobile app are retro and vintage. However, in the process of conversion between normal to the filtered image, the efficient approach for common people and the raw exact pattern aren't found yet.

With the aim of combining the beauty of the images with the flexibility and speed of computer graphics, retro & vintage image filter effects are made for Android smartphones, and the experiments on the correlation between the change of RGB original image to the retro & vintage filter are done by changing the parameters of one of the basic color against another.

The test results showed that retro generate images with dominant level of warm color with a significant difference of RGB combinations, while the vintage generated more kind of cold vibe, and the not significant / adjacent difference of level between RGB combinations. Based from the implementation, the application can perform all the functions and features as expected. This application also helps the user to get a picture with retro & vintage effects.

**Keywords :** *Mobile Application, Android, Photography, Image filter, RGB, retro vintage*