ABSTRACT

Along with the development of the era, also developing technology in the field of information. This development encourages the number of systems that can be made according to need. Identification of objects is one part of image processing technology. Identification of objects can be used to identify moving objects in surveillance camera surveillance systems. Cloud storage is a data storage medium to the server through internet network access. Data stored in the cloud can be accessed using a mobile device. Both of these technologies can be combined into a system for surveillance cameras.

In this final project created a system, where this system will identify the moving object from the existing image in cloud storage. The system will download images in the cloud storage and then the identification process. The identification results will be sent to the cloud storage identification section and can be accessed using the application on the mobile device.

The result of the testing of the instrument was analyzed using the parameter of true positive rate (TPR), false positive rate (FPR), and monitoring function in mobile device. Functionality here matches the correctness of identification and monitoring. Using 100 images as a dataset on each of the human object parameters (frontalface, upper body, lower body). The value of TPR= 0.7873 , FPR= 0.06 and PCC= 86.3667% for scenario 1 and TPR= 0.699143, FPR= 0.2 and PCC= 74.95715%. for scenario 2.

Keywords: cloud storage, identification, image processing, ip camera, mobile device.