

ABSTRACT

A moving object is an unique thing that it is often used as objects of research. Today, moving objects research has been used in many ways, such as the calculation of the number of moving objects in someplace, measuring the speed of moving objects, up to colors and types detection of some moving objects, etc.

This final project aims to analyze the results of measurements of the speed of a moving vehicle i.e. motorcycle, which is obtained through a record motorcycle across the road with cell phone cameras. This analysis is derived from the comparison of multiple frame images recorded on the resulting image pixels, with the frame difference calculation process. Image recording process using android based on cell phone camera. Android is an operating system for mobile phones based on Linux, which provides an open platform for developers to create their own applications that can be used by various device drivers.

At this final result obtained is: In the system, the highest average speeds that can be measured with the optimal speed is at 30, 40, and 50 km / h, with an average accuracy of each of up to 93%. Changes in delta frame to determine the accuracy of velocity measurements, with a delta frame that optimal point in measurement speed is set at 5.

Key Words : speed motorcycle, android, frame difference