

ABSTRACT

Every human have different attributes and behaviors. In our life many people who often lie in everything. The lie is obliged to build understanding on others, then the understanding it establishes is wrong.

One indicator to reach people lying or not by looking at pupils, because according to the science of psychology, pupils will have a dilated diameter change when the person is in a state of depression, including when lying. Eye blinking can also be an indicator to know people who lie or not by increasing the number of flickers.

From the results of research conducted lie detector tool. Accuracy is obtained from observations on the change in pupillary diameter using the method of circular hough transform and increase the number of blink of the eye by the method. In the study, a person who lies pupils will experience dilatation of 4% to 8% of the pupil's initial pupil diameter and an increase in the number of blinks of the eye up to 8 times from the initial blink of the respondent before the question is asked.

Key words : lie detector, video camera, eye pupil, eye blink, hough transform, frame difference