ABSTRACT

Lie is a fraud that is very harmful to many who cheated. Lies often occur in the general public. Every person who lies has certain motives, among them to protect personal interests, to deceive others, or to avoid punishment. To be able to reveal a lie we can detect through some limbs that will unconsciously show different reactions when someone is lying. Among them, through our eye organs can detect someone lying or not.

Lie detection discussed in this final Task is the eyes, namely with the object of eye tracking and eye pupil diameter changes by using method of Wavelet Transform to Gabor Image Processing process and afterwards perform the classification to determine the answer someone is lying or not by using the Decision Tree.

With this lie detector, it is expected to help people in need to detect lies. With accurate final test results. This study has a value of precision 97%, recall 94%, and accuracy 95% of the tests that have been done.

Keyword : *Lie detector, Eye Tracking, Pupil, Gabor Wavelet, Decision Tree*