

CHAPTER 6

CONCLUSION

There is no doubt that the template matching method provided by OpenCV is sufficient to detect traffic signs in Indonesia. Although the scope are Indonesia's traffic signs and circular form of traffic signs, the research came up with various kind of factor X which is affect in detection process. Factor X contained by the clarity of image, image size, similarity between templates, tilt and distance of the signs on the image. The tilt of the sign that can be tolerated by OpenCV is around 10-15 degrees. The percent success that results from 200 pure images is 34% detected perfectly, 34% not able to detect and 32% flurry detected. For a variety of reasons, the main reason that greatly influences the success of the detection process is the clarity of template images resized to pixels under 50.

The further research that can be suggested by is looking for reasons why flurry detection still occurs and having one more algorithm in pre-process image input, not just turned the image into grayscale. There is a possibility by having algorithm before processing the detection process could raise success rate. Denoising the Image input had done but it means nothing.