

IVR Coursework 1

Report

Weiting Goh (S1450710) and Tomas Markevicius(S1452595)

October 26, 2016

1 Introduction

To recognise and count the coins in an image, Coinsy, have three subtasks: 1) Image processing, 2) Object recognition, and 3) Classification (and then counting the coins).

For Coinsy to be a proficient counter, we have to first train it. The processes that Coinsy goes through for training differs from evaluation as described in figure Figure 1. We will describe her training in the next section - methodology, and her evaluation results after. Lastly, we conclude with a discussion on Coinsy performance.

In the following subsections, we give an overview of the operation pipeline for each subtasks.

1.1 Image Processing

For all images that Coinsy receives, a series of preprocessing will be carried out for images to be comparable, followed by background subtraction and

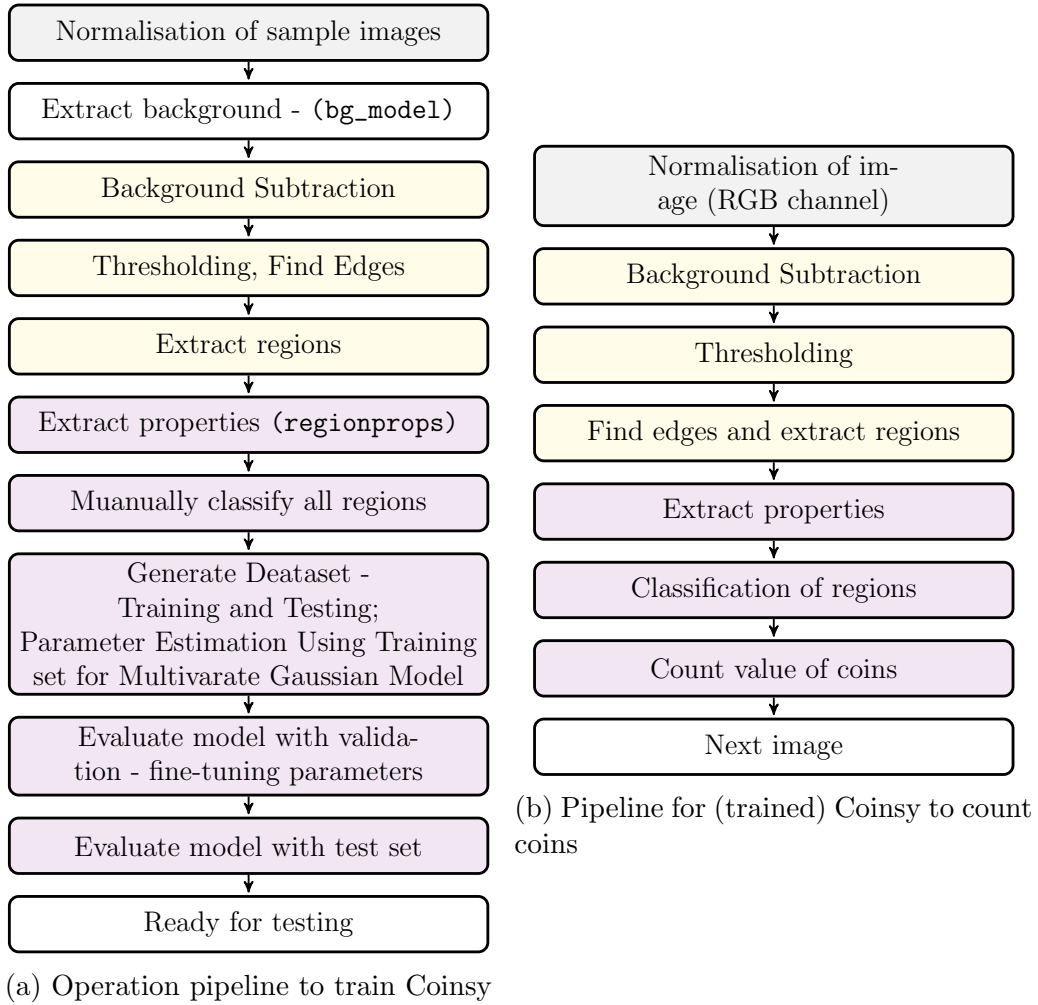


Figure 1: Differences in Pipeline

image segmentation. The output of this task are the The background is built using

- 2) Image segmentation,

1.2 Object Recognition

1.3 Classification

2 Methodology

THIS IS THE TARGET

3 Result

Appendix here