Computer Vision Report

by Andrew Howell (tzjn72)

# Introduction

In this assignment, I used pre- and post-processing, as well as parameter manipulation in the StereoSGBM class, in order to maximise the accuracy of the generated disparity map from the two stereo images provided.

## Dense Stereo Matching Pipeline

This pipeline has been shown to improve the results of dense stereo matching under low light conditions (Kp, et al., 2014) and therefore I created a similar process of pre- and post-processing the images for the disparity section

Pre-processing

Post-processing

# Disparity Mapping

# References

Kp, A., Reddy, V. & R., H., 2014. *Enhancement Technique for Improving the Reliability of Disparity Map Under Low Light Condition.* Vallabh Vidyanagar, Researchgate.