

Report Assignment 1C: Harris Corner Detection

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Introduction:

The purpose of this report is to explain the events experienced by the programmer. Most of the details about the source code have been covered by the use of comment blocks within the source code. The report is there to highlight the outputs and observations.

Specifications:

The corner detector programmed here has been done using MATLAB and its native script. There are various configuration parameters to fine tune the corner detection. The evaluator can play around with these values in order to get a good quality corner detection.

I have used linear scanning over neighborhood pixels and selective threshold to suppress unnecessary values. But there are still some false positives as well as some unreported results. These results are there if the values of parameter 'K' or 'threshold' is adjusted.

Following are two output images:

The program works well for the below image but for the chair image, there are some false positive outputs as well as some unreported corners. This can be because of the texture of the wood on chair which has a varying intensity across the image. In case of the lines, the program has successfully determined the corners. For more details, check parameter values in source code.

