

3.2 - Circle Detection using the Hough Transform

In this project you are required to develop a program (in MATLAB) for detecting circles in images using the Hough Transform, and to write a report summarizing the theory behind your work and a description of your implementation. The suggested steps for proceeding in this project are:

- Study the theory behind using the Hough transform for detecting parameterized objects in images (concentrate on detecting circles)
- Study the edge detection capabilities of MATLAB.
- Implement a simple program for demonstrating the idea.
- Optimize your code to deal with the larger images, finer parameter resolution, etc.

If time allows consider the extension to Ellipses detection

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