

Day 7 of Computer Vision

Capstone Project

Document Scanner using OpenCV



Steps involved

- Edge Detection
- Finding Contours
- Apply a Perspective Transform & Threshold
- Results

Canny Edge Detection

Canny Edge Detection is a popular edge detection algorithm.

It was developed by John F. Canny

Edge detection is useful for finding boundaries of objects in an image
— it is effective for segmentation purposes.

```
Cv2.canny(img, min_value, max_value)
```

Detecting and drawing contours

What are Contours?

-- Contours can be explained simply as a curve joining all the continuous points (along the boundary), having same color or intensity. The contours are a useful tool for shape analysis and object detection and recognition.

cv2.findContours()

cv2.drawContours()

Perspective Transform & Threshold

The last step in building a mobile document scanner is to take the four points representing the outline of the document and apply a perspective transform to obtain a top-down, “birds eye view” of the image.

Thank's