

Steps to reproduce results.

1. The python script is directly runnable.
2. We just need to change the names of the images for which you want the sketch.
3. Output images corresponding to the selected image are saved in the current directory.

Code Files-

1. L0 smooth- This folder contains 2 python files (L0 serial and L0 helpers). Both the files are used for L0 smoothing of the image.
2. Main Code file- Contains code for:
 - a. Preprocessing- L0 smoothing, Gaussian Blur
 - b. Outer edge detection- Canny detector, Our Algo
 - c. Inner stroke extraction- Enhancement filter
 - d. Stroke Integration- Collaborative representation and Detail completion
 - e. Stroke Optimization- Potrace Method.
 - f. Evaluation metric- Cohen Kappa, Fleiss' Kappa, Scott's pi and Alpha coefficient

Algorithms for each step are clearly mentioned in the report.