Homework #2-P2 \_ Report

CS-3150

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After import all the package I need, first read the image from local.

Then I applied an average filter to generate a smooth version of the original image, so that it would blur the unnecessary information, such as eyelashes, except the pupil.

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A picture containing application

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Then, I applied a sobel filter on the smooth version to generate the edge of the image.

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Then I created the disc filter but simply generate a numpy zero matrix with 1’s in a ring between radius 35 to 45, and applied the disc filter to previous result image.

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A picture containing graphical user interface

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Finally, the last thing I need to do is to find the brightest pixel value which is in the middle of pupil and erase it. And black out everything outside of what I need which is outside of the circle with radius of 45.

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A picture containing graphical user interface

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