

tags: DIP

Principles and Applications of Digital Image Processing

Fall, 2021

for better reading: <https://hackmd.io/@tohow06/HJnb30LcK>

Homework 6

B06611008 賴乙豪

程式介面

大致按照題目順序撰寫

依序按按鈕即可

part 1	part 2	part 3

Part 1

Trapezoidal

可以調整梯形上底長度跟高度

Wavy

可以調整波形的頻率

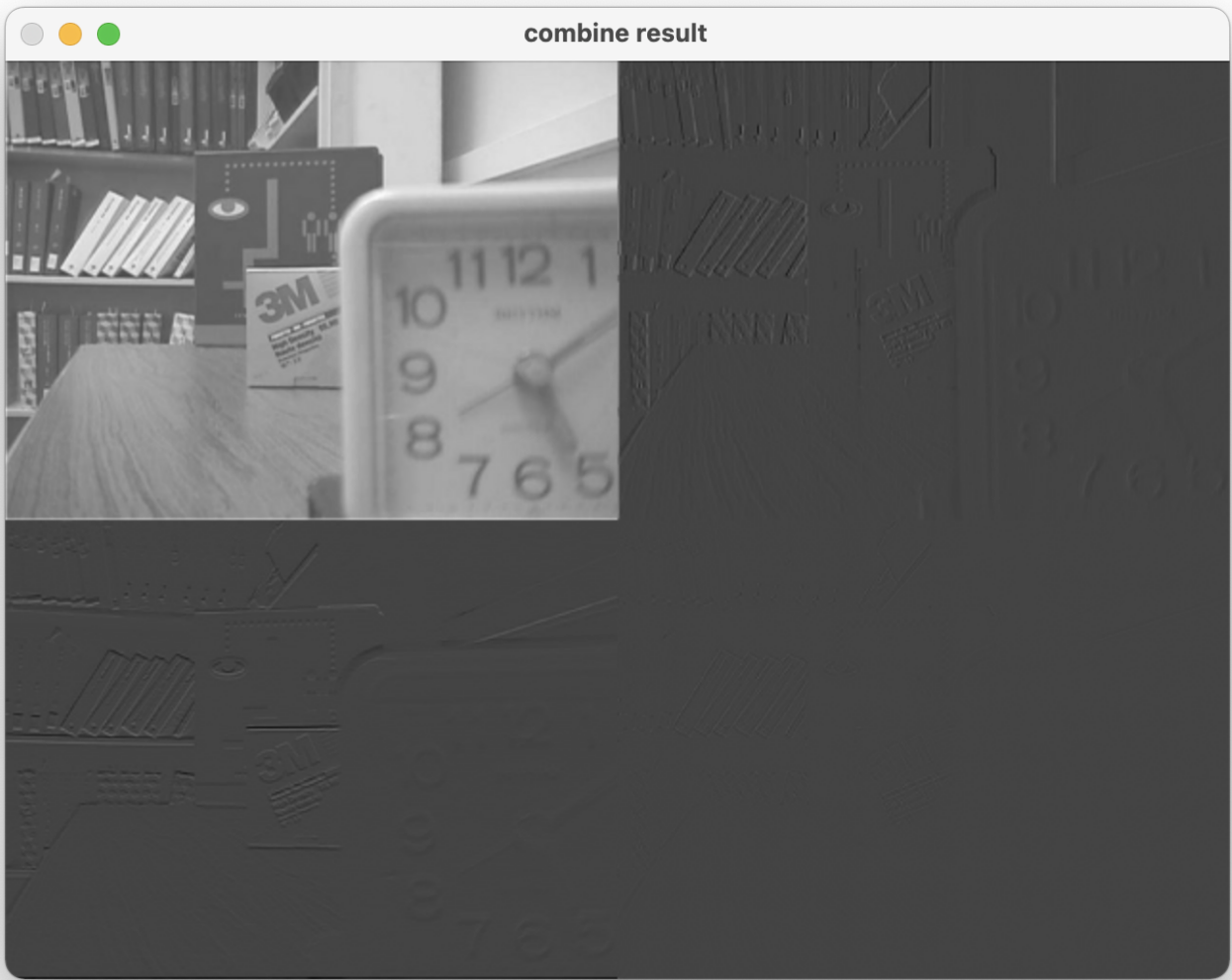
Circular

Part 2

DWT

img 1	img 2

combine

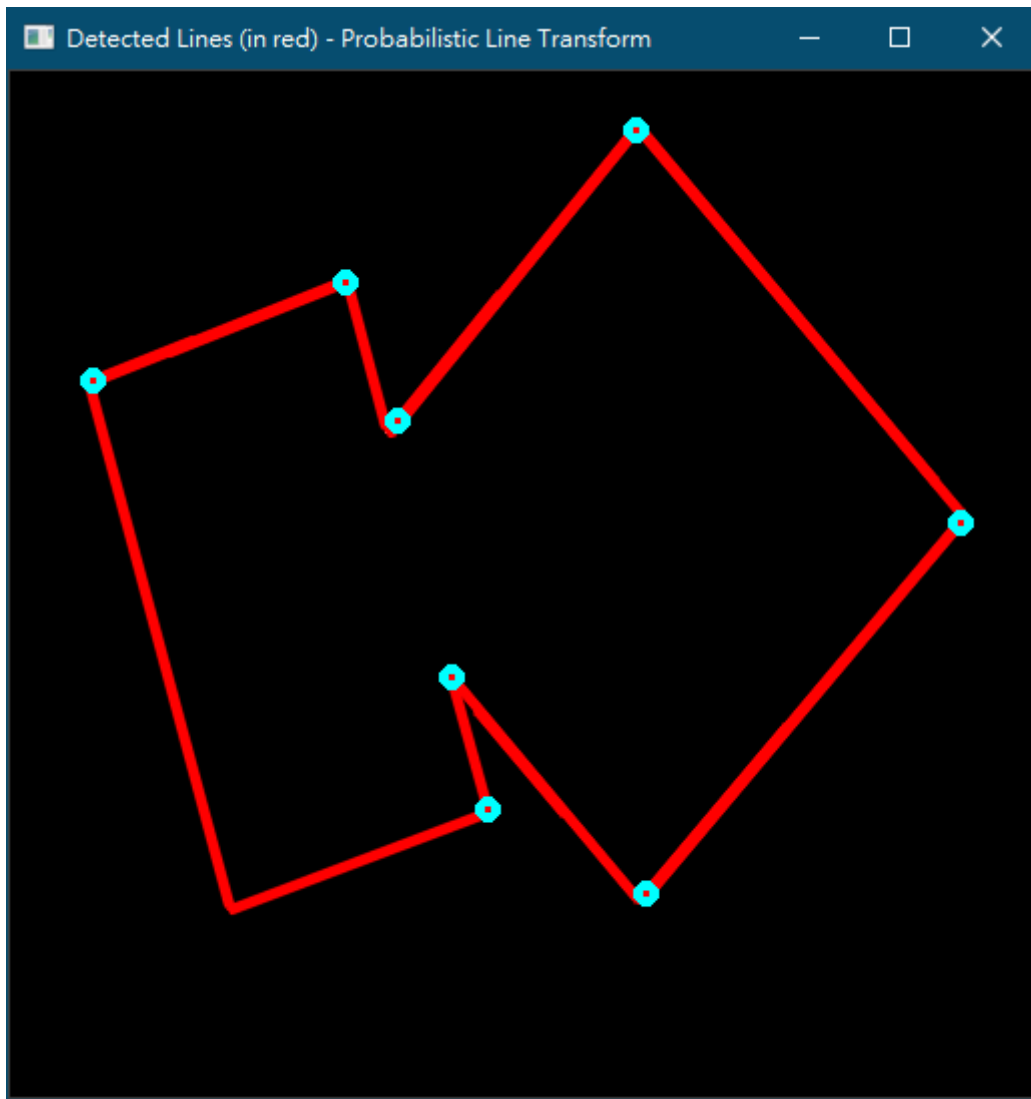


inverse DWT



Part 3

1. use canny to get binary edge
2. use HoughLinesP to get edge and vertex
3. using gui to adjust parameters and get ideal result
4. click check rectangle button and follow instruction to select vertices to calculate area and perimeter



DIP HW

Open Image

get 12 lines

Part 1

Part 2

Part 3

Hough Transform

	周長	面積	
1	893.454	49028	
2	839.304	39804.8	

threshold 50

min line length 50

maxLineGap 10

check rectangles

Clear

Close

Clear

Close