BSysE530: Homework # 2

Due by mid-night Jan 30, 2019

More Binary Image Processing and Morphological Operators

1. From the results you got in Part 2 of Homework 1, find area of individual apples in all three images. Use area/size filter to remove smaller objects that may not be true apples.
2. Use the results from problem #1 and find perimeter and compactness of the apples.
3. Use Matlab (or other software) help to find out the functions available for morphological operations. Investigate them and write briefly about what each function does?
4. Define appropriate structural element(s) and use morphological operators to find out boundaries of the circles in the image 'circle.png'. Image(s) are again available in Blackboard.
5. Find the number of holes using morphological operators and measure the diameter of the holes in the image pcb.jpg (source: http://www.ifi.uio.no/~inf3300/bilder/pcb.jpg; available in Blackboard).