## COMP 4421 (Fall 2018) Assignment 2

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#### **Exercises**

### 1. Opening and Closing

$$(A \cdot B)' = ((A \oplus B) \ominus B)'$$

$$= (A \oplus B)' \oplus \widehat{B}$$

$$= (A' \ominus \widehat{B}) \oplus \widehat{B}$$

$$= A' \circ \widehat{B}$$

#### 2. Dilation

#### A dilate B1

0	0	0	0	1	1	1	1
0	0	0	1	1	1	1	1
0	0	0	1	1	1	1	1
0	1	1	1	1	1	1	1
1	1	1	1	1	1	1	0
1	1	1	1	1	0	0	0
1	1	1	1	1	0	0	0
1	1	1	1	0	0	0	0

### A dilate B2

0	0	0	0	0	1	1	0
0	0	0	0	1	1	1	1
0	0	0	1	1	1	1	1
0	0	1	1	1	1	1	0
0	1	1	1	1	1	0	0
1	1	1	1	1	0	0	0
1	1	1	1	0	0	0	0
0	1	1	0	0	0	0	0

### A erode B1

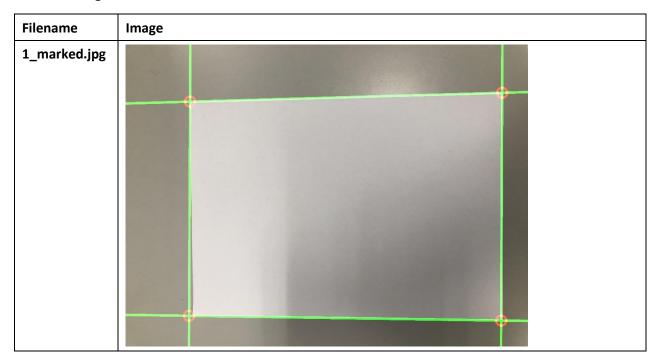
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

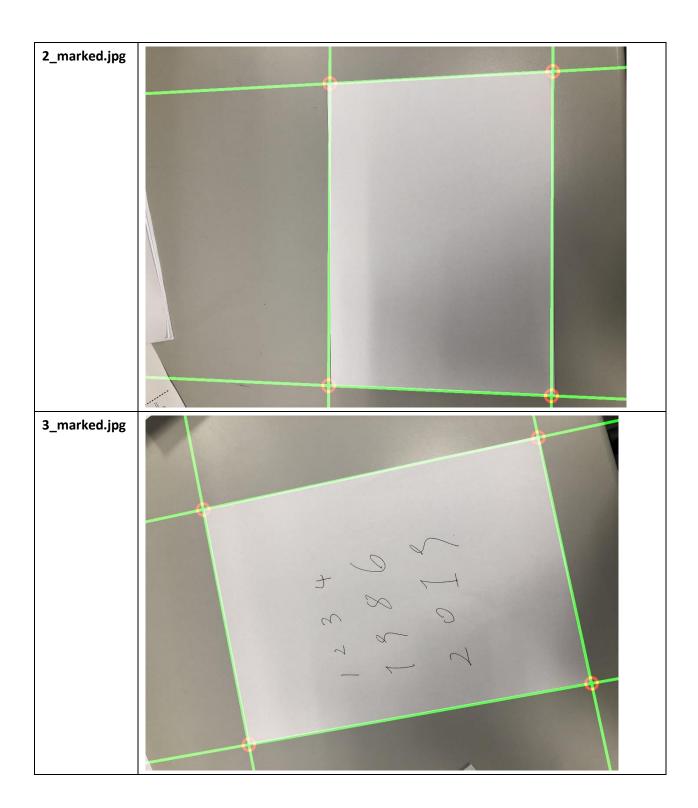
A erode B2

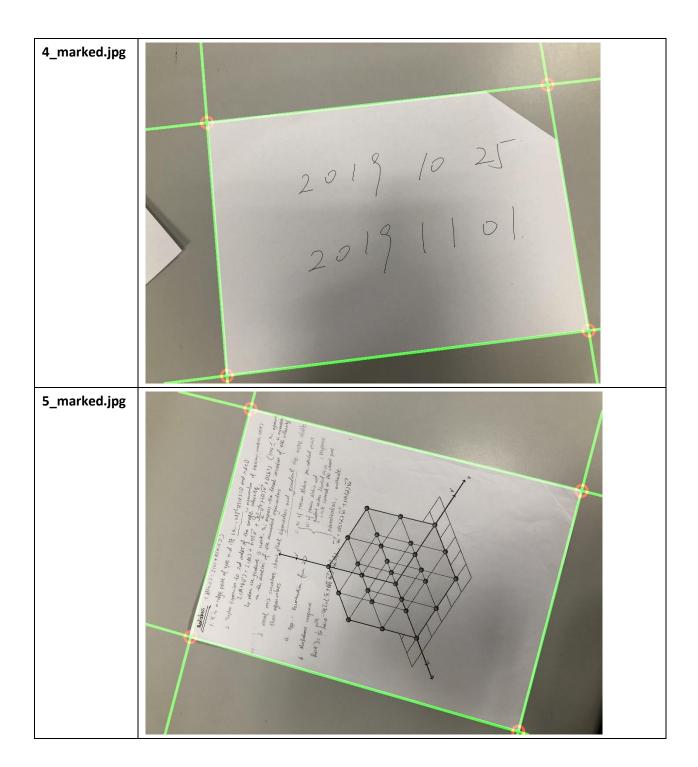
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

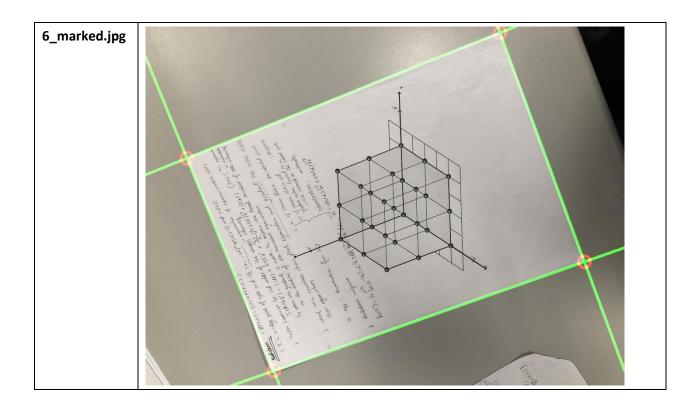
## Programming

## 1. Hough Transform









# 2. Image Warping



2_warped.jpg	
3_warped.jpg	
	$\sim$ $\sim$ $\sim$ $\sim$
	$\mathcal{C}$

