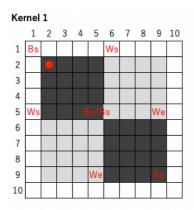
CSIT5410 Recognition Systems Spring Semester 2021 Assignment 3

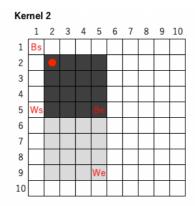
ID: 20737506

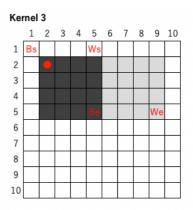
Name: Yoshinori SAIKI

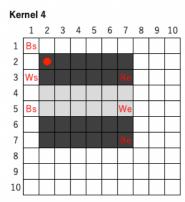
· A brief explanation of your weak classifiers

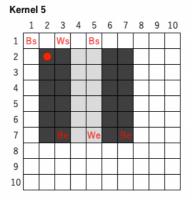
Used five different types of haar feature kernels as the following.

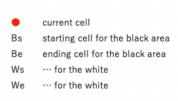








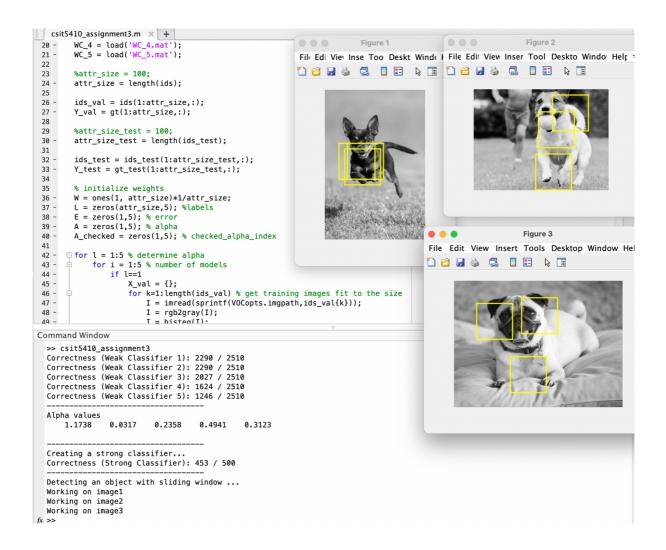




· A brief explanation of your preprocessing methods (if any)

Exactly follow the instruction in the handout.

- 1. I = rgb2gray(I);
- 2. I = histeq(I);
- 3. I = imresize(I, [128 128]);
- A screen capture of the selected weak classifiers and its weight after the Adaboost algorithm
- A screen capture of the classification accuracy of each weak classifier and strong classifier on images specified in csit5410_test.txt
- A screen capture of the detection results of the given images in the "test_images" folder, a maximum of 3 bounding boxes per image.



Note: showing confidence rate isn't applied.

Written Section

(1)

20	67	30
15	67	84
65	86	21

0	1	0
0		1
0	1	0

0	1	0	0	0	1	0	1
128	64	32	16	8	4	2	1
0	64	0	0	0	4	0	1

<u>69</u>

(2)

21	86	65
84	67	15
30	67	20

0	1	0
1		0
0	1	0

0	0	1	0	1	0	1	0
128	64	32	16	8	4	2	1
0	0	32	0	8	0	2	0

<u>42</u>

(3)

21	70	32
16	69	82
66	85	20

0	1	0
1		1
1	1	0

1	0	1	0	1	1	1	0
128	64	32	16	8	4	2	1
128	0	32	0	8	4	2	0

<u>174</u>