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Quiz
Question 1

1/1 point (graded)
Given the following code ->

arr1 = np.array([200, 250], dtype=np.uint8).reshape(-1, 1)

arr2 = np.array([40, 40], dtype=np.uint8).reshape(-1, 1)

add_numpy = arr1+arr2

add_cv2 = cv2.add(arr1, arr2)

Then the value of **add_numpy** and **add_cv2** respectively are -
NOTE: Please use cv2 version less than or equal to 4.8.

○ [[240, 290]] , [[240, 290]]

○ [[240, 34]] , [[240, 290]]

○ [[240, 255]] , [[240, 34]]

◉ [[240, 34]] , [[240, 255]] ✔

(Submit)   You have used 1 of 2 attempts

✔   Correct (1/1 point)

Question 2

1/1 point (graded)
Which of the following is not a valid threshold type in Opencv (type parameter in cv2.threshold)?

○ cv2.THRESH_BINARY

◉   cv2.THRESH_BINARY_ADV ✔

○   cv2.THRESH_BINARY_INV

○   cv2.THRESH_OTSU

(Submit)   You have used 1 of 2 attempts

✔   Correct (1/1 point)

Question 3

1/1 point (graded)

When **cv2.threshold()** function is applied to a grayscale image with a threshold value of 127 and maximum value of 255, then:

Hint: Assume **THRESH_BINARY** being applied in the process.

○   Pixels with intensity less than 127 are set to 0, and pixels with intensity greater than or equal to 127 are set to 255.

◉   Pixels with intensity less than or equal to 127 are set to 0, and pixels with intensity greater than 127 are set to 255. ✔

○   Pixels with intensity greater than 127 are set to 0, and pixels with intensity less than or equal to 127 are set to 255.

○   Pixels with intensity greater than or equal to 127 are set to 0, and pixels with intensity less than 127 are set to 255

(Submit)   You have used 2 of 2 attempts

✔   Correct (1/1 point)

Question 4

1/1 point (graded)

Given 2 inputs:

>

Input 1:

$$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

Input 2:

$$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$$

The output of the **bitwise AND** operation on the above binary inputs is:

- ◉ $$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$ ✔

- ○ $$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix}$$

- ○ $$\begin{bmatrix} 1 & 1 & 0 \\ 1 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

- ○ $$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

(Submit)   You have used 2 of 2 attempts

✔ Correct (1/1 point)

Discussion

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