الرؤية الحاسوبية - (606384_1)

Course management ⚙

Status	Finished
Started	Thursday, 22 January 2026, 8:51 PM
Completed	Thursday, 22 January 2026, 8:52 PM
Duration	9 secs
Grade	**0.00** out of 40.00 (**0%**)

Question 1

Not answered

Marked out of 1.00

v1 (latest)

Histogram equalization may reduce image contrast if the original image already has a well-distributed range of intensity values.

○ True

○ False

The correct answer is 'True'.

Question 2

Not answered

Marked out of 1.00

v4 (latest)

A binary image always occupies less memory than a grayscale image.

○ True

○ False

The correct answer is 'False'.

Why are features extracted from images?

- a. To store images efficiently
- b. To enhance color quality
- c. To reduce computational complexity
- d. To increase image size

Your answer is incorrect.

The correct answer is: To reduce computational complexity

Which method detects keypoints and computes binary descriptors?

- a. Harris
- b. Contours
- c. HOG
- d. ORB

Your answer is incorrect.

The correct answer is: ORB

A histogram with most values near 0 indicates the image is:

- a. Balanced
- b. Dark
- c. Bright
- d. Overexposed

Your answer is incorrect.

The correct answer is: Dark

Question 6

Not answered

Marked out of 1.00

v2 (latest)

An image of size 200 × 300 stored as a grayscale image contains how many intensity values?

- a. 200
- b. 180,000
- c. 300
- d. 60,000

Your answer is incorrect.

The correct answer is: 60,000

Question 7

Not answered

Marked out of 1.00

v1 (latest)

HOG mainly captures:

- a. Texture noise
- b. Pixel intensity values
- c. Color distribution
- d. Edge orientation patterns

Your answer is incorrect.

The correct answer is: Edge orientation patterns

Question 8

Not answered

Marked out of 1.00

v1 (latest)

Morphological operations are mainly applied to binary images.

- True
- False

The correct answer is 'True'.

Question 9

Not answered

Marked out of 1.00

v3 (latest)

Which filter assigns the average of neighboring pixels?

- a. Median Blur
- b. Gaussian Blur
- c. Averaging Blur
- d. Sharpening

Your answer is incorrect.

The correct answer is: Averaging Blur

Which smoothing filter best removes salt-and-pepper noise?

- ○ a. Laplacian
- ○ b. Averaging
- ○ c. Gaussian
- ○ d. Median

Your answer is incorrect.

The correct answer is: Median

Which operation fills small black holes?

- ○ a. Closing
- ○ b. Dilation
- ○ c. Erosion
- ○ d. Opening

Your answer is incorrect.

The correct answer is: Closing

Histogram equalization helps to:

(Note: this is an MAQ)

- ☐ a. Spread pixel intensities
- ☐ b. Improve contrast
- ☐ c. Remove noise
- ☐ d. Detect edges

Your answer is incorrect.

The correct answers are: Improve contrast, Spread pixel intensities

Question 13

Not answered

Marked out of 1.00

v2 (latest)

Thresholding converts a grayscale image into:

- ○ a. Double image
- ○ b. Color image
- ○ c. Binary image
- ○ d. Edge image

Your answer is incorrect.

The correct answer is: Binary image

Question 14

Not answered

Marked out of 1.00

v5 (latest)

Why is Python commonly used with OpenCV?

- ○ a. It replaces C++ implementations
- ○ b. It requires no memory management
- ○ c. It integrates well with NumPy arrays
- ○ d. It produces faster compiled code

Your answer is incorrect.

The correct answer is: It integrates well with NumPy arrays

Question 15

Not answered

Marked out of 1.00

v1 (latest)

Corners are considered stable image features.

- ○ True
- ○ False

The correct answer is 'True'.

Question 16

Not answered

Marked out of 1.00

v3 (latest)

Google Colab requires manual installation of OpenCV before use.

- ○ True
- ○ False

The correct answer is 'False'.

Which operations are mainly used for visualization and debugging?

(NOTE: this is a MAQ)

- ☐ a. Thresholding
- ☐ b. Saving images
- ☐ c. Drawing rectangles
- ☐ d. Adding text

Your answer is incorrect.

The correct answers are: Drawing rectangles, Adding text

Adaptive thresholding uses a single global threshold value.

- ○ True
- ○ False

The correct answer is 'False'.

Opening is defined as:

- ○ a. Dilation → Erosion
- ○ b. Erosion → Dilation
- ○ c. Threshold → Blur
- ○ d. Blur → Threshold

Your answer is incorrect.

The correct answer is: Erosion → Dilation

Brightness adjustment changes pixel intensity uniformly across the image.

- ○ True
- ○ False

The correct answer is 'True'.

Sobel operator computes intensity changes separately along X and Y directions.

○ True

○ False

The correct answer is 'False'.

What are the valid environments mentioned for OpenCV development?

(NOTE: This is an MAQ.)

☐ a. Google Colab

☐ b. Jupyter Notebook

☐ c. Android Studio

☐ d. PyCharm

Your answer is incorrect.

The correct answers are: Jupyter Notebook, PyCharm, Google Colab

Which preprocessing step is MOST suitable for data augmentation?

○ a. ROI cropping

○ b. Flipping

○ c. Grayscale conversion

○ d. Histogram equalization

Your answer is incorrect.

The correct answer is: Flipping

Which are shape features?

(Note: this is an MAQ)

- [ ] a. Aspect ratio
- [ ] b. Histogram
- [ ] c. Perimeter
- [ ] d. Area

Your answer is incorrect.

The correct answers are: Area, Perimeter, Aspect ratio

Sharpening filters reduce noise in images.

- ( ) True
- ( ) False

The correct answer is 'False'.

Which model is considered a simple baseline classifier?

- ( ) a. Logistic Regression
- ( ) b. SVM
- ( ) c. KNN
- ( ) d. CNN

Your answer is incorrect.

The correct answer is: KNN

Which operation shrinks white regions?

- ( ) a. Dilation
- ( ) b. Opening
- ( ) c. Erosion
- ( ) d. Closing

Your answer is incorrect.

The correct answer is: Erosion

Resizing an image to a very large size may cause loss of details.

○ True

○ False

The correct answer is 'False'.

Histogram equalization is applied to:

○ a.   RGB images directly

○ b.   Binary images

○ c.   Color histograms only

○ d.   Grayscale images

Your answer is incorrect.

The correct answer is: Grayscale images

Which task belongs to the pre-processing stage of Computer Vision?

○ a.   Decision-making

○ b.   Face recognition

○ c.   Object classification

○ d.   Image thresholding

Your answer is incorrect.

The correct answer is: Image thresholding

Which thresholding method automatically selects the best cutoff value?

○ a.   Adaptive

○ b.   Otsu

○ c.   Binary

○ d.   Simple

Your answer is incorrect.

The correct answer is: Otsu

In `cv2.resize(img, (200,200))`, the values represent:

- ○ a.   Rows then columns
- ○ b.   Scale factors
- ○ c.   Width then height
- ○ d.   Height then width

Your answer is incorrect.

The correct answer is: Width then height

Which operations help clean noisy binary images?

(Note: this is an MAQ)

- ☐ a.   Opening
- ☐ b.   Erosion
- ☐ c.   Sharpening
- ☐ d.   Closing

Your answer is incorrect.

The correct answers are: Erosion, Opening

Why is Canny edge detection preferred?

- ○ a.   It produces thick edges
- ○ b.   It is fastest
- ○ c.   It handles noise well
- ○ d.   It works on color images

Your answer is incorrect.

The correct answer is: It handles noise well

Which image representation stores values in the range [0, 1] by convention?

- ○ a.   Binary image
- ○ b.   RGB color image
- ○ c.   Double image
- ○ d.   uint8 grayscale image

Your answer is incorrect.

The correct answer is: Double image

Which OpenCV feature makes it suitable for real-time applications?

- ○ a.   Optimized algorithms
- ○ b.   Cloud integration
- ○ c.   Built-in datasets
- ○ d.   GUI support

Your answer is incorrect.

The correct answer is: Optimized algorithms

In the CV pipeline, Machine Learning is applied after:

- ○ a.   Visualization
- ○ b.   Image saving
- ○ c.   Feature extraction
- ○ d.   Image capture

Your answer is incorrect.

The correct answer is: Feature extraction

Question 38

Not answered

Marked out of 1.00

v4 (latest)

Which operator detects edges in both directions at once?

- ○ a. Laplacian
- ○ b. Canny
- ○ c. Gaussian
- ○ d. Sobel

Your answer is incorrect.

The correct answer is: Laplacian

Question 39

Not answered

Marked out of 1.00

v3 (latest)

Why do many algorithms prefer grayscale images?

- ○ a. They contain more color information
- ○ b. They enhance contrast automatically
- ○ c. They increase image resolution
- ○ d. They reduce computation cost

Your answer is incorrect.

The correct answer is: They reduce computation cost

Question 40

Not answered

Marked out of 1.00

v1 (latest)

Machine Learning models operate directly on raw pixels in this course.

- ○ True
- ○ False

The correct answer is 'False'.

Jump to...

Quiz 02 ►