Computer_Vision_Midterm_Exam

Total points 25/31

Midterm

✓ IN CBIR systems, it's easy to build an automatic process to extract features from images * 1/1

- (•) True ✓
- ( ) Flase

✗ To blur an image, you can use a linear filter * 0/1

- (•) True ✗
- ( ) False

✓ The main components of computer vision systems are: scene, camera, and computer * 1/1

- (•) True ✓
- ( ) False

✓ Features like points and corners are extracted from the whole image * 1/1

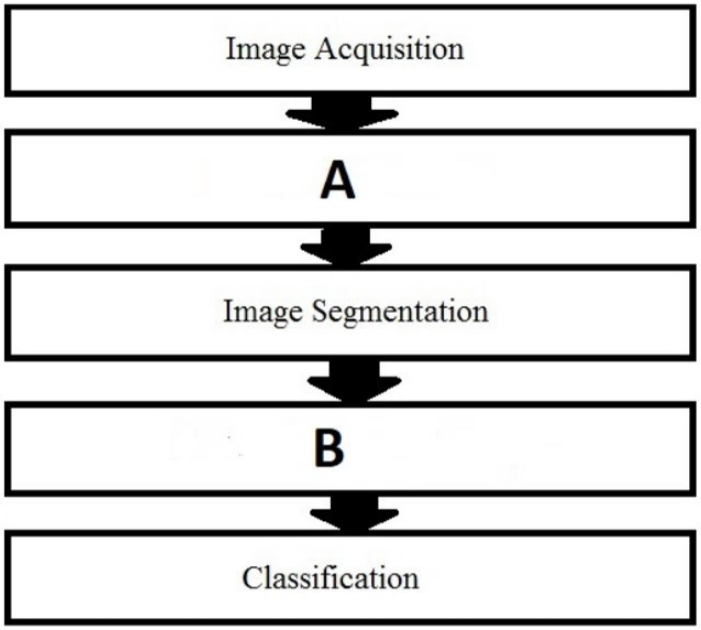
- ○ True
- ◉ Flase ✓

✓ The following figure is an example of local feature representation * 1/1

- ○ True
- ◉ False ✓

✓ In the Fallowing figure, A should be:_____ 1/1

✓ In the Fallowing figure, A should be:_____ 1/1



- ○ Feature detection
- ○ Feature Indexing
- ◉ Image preprocessing ✓
- ○ Image representation

✓ In the following figure, the operation done on the original image is known as_____ * 2/2

Choose all possible true answers

- ( ) Image debluring
- ( ) Image denoising
- (•) Image smoothing ✓
- ( ) Image nosing

✓ Recall is the ratio between the no. of relevant retrieved images and the total no. of relevant images in the database * 1/1

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- (●) True ✓
- ( ) Flase

✓ Global features are transformation invariant * 1/1

- ( ) True
- (●) Flase ✓

✗ Matching two images is done usually by checking the similarity between the two feature detection algorithms * 0/1

- (●) True ✗
- ( ) Flase

✓ Good feature representation methods should be robust against illumination changes and noise but not necessarily against geometric 1/1

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- ○ True
- ◉ Flase ✓

✓ Features vectors with different range of values should be normalized before the matching process * 1/1

- ◉ True ✓
- ○ Flase

✓ Optical Character Recognition (OCR) is mainly about converting scanned documents to text * 1/1

- ◉ True ✓
- ○ False

الاسم كاملا باللغة العربية: *

✓ Semantic gag is the gap between global and local features * 1/1

- ○ True
- ◉ Flase ✓

✗ Blobs is another name for interest points or edges * 0/1

- ◉ True ✗
- ○ Flase

✓ Retrieval accuracy is the same as single precision * 1/1

- ◉ True ✓
- ○ False

✓ Color histogram does not include any spatial information about the image * 1/1

- ◉ True ✓

✗ Edges and corners are classified as global features * 0/1

- ○ True
- ◉ Flase ✗

✓ Computer vision is concerning with the automatic interpretation of scenes * 1/1

- ◉ True ✓
- ○ False

✗ Relevance Feedback means using more than one type of querying * 0/1

- ◉ True ✗
- ○ False

✓ The main components of computer vision systems are: scene, camera, and computer * 1/1

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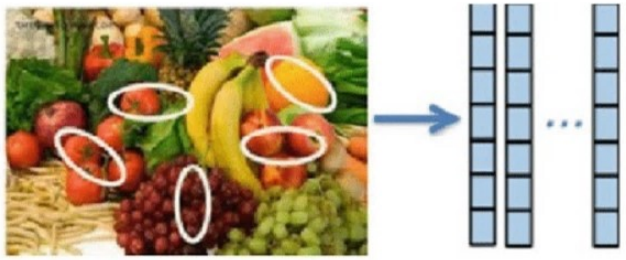
- (●) True ✓
- ( ) False

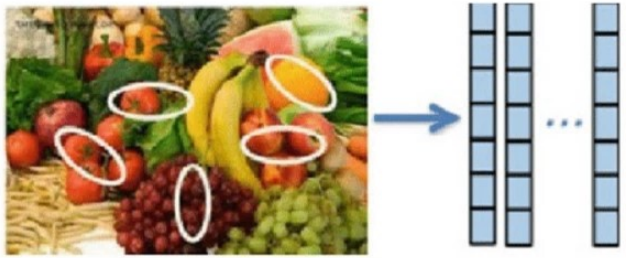
✓ GCH can be used to represent color layout withing the image * 1/1

- ( ) True
- (●) Flase ✓

✓ The following figure is an example of global feature representation * 1/1



✓ The following figure is an example of global feature representation * 1/1



- ○ True
- ◉ False ✓

✓ Feature indexing means that creating feature vectors using the detected features * 1/1

- ◉ True ✓
- ○ Flase

✓ Image resolution measures how many pixels are used in a given area * 1/1

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- ○ True
- ◉ False ✓

✓ Smoothing helps in reducing noise by forcing pixels to be more like their neighbours * 1/1

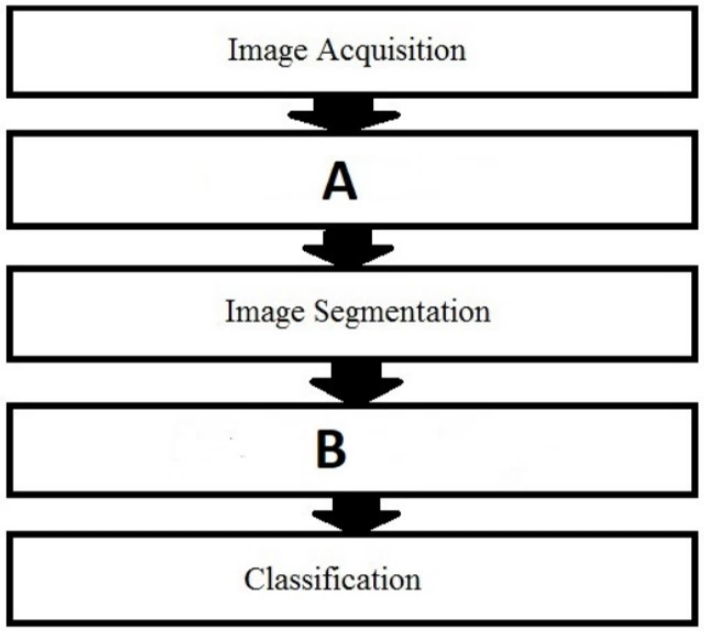
- ◉ True ✓
- ○ False

✓ Text-based image retrieval is not suitable for annotating large amount of pictures * 1/1

- ◉ True ✓
- ○ False

✓ In the Fallowing figure, B should be:_____ 1/1

✓ In the Fallowing figure, B should be:_____ 1/1



- ○ Feature Matching
- ◉ Feature Extraction ✓
- ○ Feature detection
- ○ Feature indexing

Feature detection

Feature indexing

✗ CBIR stands for_____ * ···/1

Case Based Information Reasoning

Content-Based Image Retrieval ✗

Color based Information Rendering

Content-based Information Rerieval

✓ Color, texture and shape are examples of global features extracted from the whole image * 1/1

True ✓

False