Congratulations! You passed!

Grade received 100%
To pass 66% or higher

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Graded Quiz: Overview of Computer Vision and its Applications

Latest Submission Grade 100%

1. Detecting dangerous items in an X-Ray is an application of computer vision **1 / 1 point**

- ○ False
- ◉ True

✓ **Correct**
correct

2. In the video lecture, what methodology is presented to detect rust on iron bridges? **1 / 1 point**

- ○ A person on the ground takes multiple high-resolution images from the **same** place. A computer vision expert splits these images into smaller groups. Each of the smaller images is passed to a custom classifier that can detect the presence of the metal structure.
- ○ A person on the ground takes multiple high-resolution images from **multiple** places. A computer vision expert splits these images into smaller groups. Each of the smaller images is passed to a custom classifier that can detect the presence of the metal structure.

- ○ A person on the ground takes multiple high-resolution images from the **same** place. A computer vision expert splits these images into smaller groups. Each of the smaller images is passed to a custom classifier that can detect the presence of the metal structure versus other, non-metal structures. After this, the images are passed through another custom classifier that is trained to detect the presence of rust in images.

- ◉ A person on the ground takes multiple high-resolution images from **multiple** places. A computer vision expert splits these images into smaller groups. Each of the smaller images is passed to a custom classifier that can detect the presence of the metal structure versus other, non-metal structures. After this, the images are passed through another custom classifier that is trained to detect the presence of rust in images.

Correct
Correct!

3. The popularity of self-driving cars has been rising at an exponential rate over the past decade. Based upon what you have learned, which of the following computer vision technique(s) is useful for self-driving cars? Select all relevant answers

1 / 1 point

- ☑ Object Detection

Correct
Correct! Detecting objects in images and video streams of cameras of self-driving cars is important to identify obstacles and traffic lights for navigating self-driving cars.

- ☐ Motion Transfer
- ☑ Image Classification

Correct

Correct! Classifying images from camera streams of self-driving cars is another important task since after performing object detection in the images we would need to classify the objects into separate categories e.g. traffic lights, pedestrians, etc. Based upon this information, the self-driving car could be programmed to slow down / speed up based upon the classification of the objects in an image.

- [ ] All of the above