edX

Lesson Quiz

Answer the following questions to test your knowledge of the concepts and techniques taught in this lesson.

Question 1

1/1 point (graded)

Which of the following is a family of algorithms that we discuss in this module? (Select all that apply)

- ☐ Grouping

- ☑ Clustering ✔

- ☑ Region Growing ✔

- ☐ Sorting

✔

Explanation
The five families, or categories of algorithms that we discuss here are:
Thresholding
Clustering
Region Growing
Template Matching
Edge and Corner Detection

Submit   You have used 1 of 1 attempt

ⓘ   Answers are displayed within the problem

Question 2

1/1 point (graded)

Which of the following scenarios can benefit from Image Segmentation. (Select all that apply.)

☑ Autonomous Driving;
✔

☑ Geographical/Geospacial Analysis;
✔

☑ Satellite Imagery Analysis;
✔

☑ Medical Imaging;
✔

✔

Explanation

Submit   You have used 1 of 1 attempt

ⓘ   Answers are displayed within the problem

Question 3

1/1 point (graded)

Which of the following best describes Image Segmentation?

○ The process of partitioning a digital image into multiple segments called pixels.

○ The process of dividing a digital image into smaller chunks

⦿ The use of low-level cues and features to partition an image into related segments.
   ✔

Explanation

Submit	You have used 1 of 1 attempt

🛈 Answers are displayed within the problem

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