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Hassan Ismail Abdalla (username: s210783)

Attempt 1

Written: 10 March, 2022 5:35 PM - 10 March, 2022 5:50 PM

Submission View

Your quiz has been submitted successfully.

Question 1 0 / 1 point

Which of the following algorithms requires as input explicit matches between point pairs from two point clouds BEFORE it starts executing?

- Spin Images
- () FPFH
- X ICP
- → Cabsch algorithm

Question 2 0 / 1 point

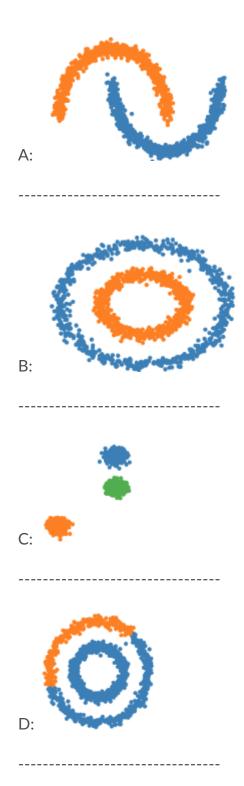
Please select the correct among the following statements concerning the Iterative Closest Points (ICP) algorithm:

- ✓ ICP is guaranteed to provide the optimal transformation that best aligns 2 point clouds
- ✓ ICP works best if the 2 point clouds are far from each other.
- ➡ 💢 ☐ ICP provides a rigid transformation between 2 point clouds
 - ▼ ICP provides an affine transformation between 2 point clouds
- ⇒ 🗶 📗

ICP works best if an initial rough estimation of the alignment of 2 point clouds is known.

Question 3 0 / 1 point

Which of the following clustering results could have been produced using k-means? (choose all correct answers)

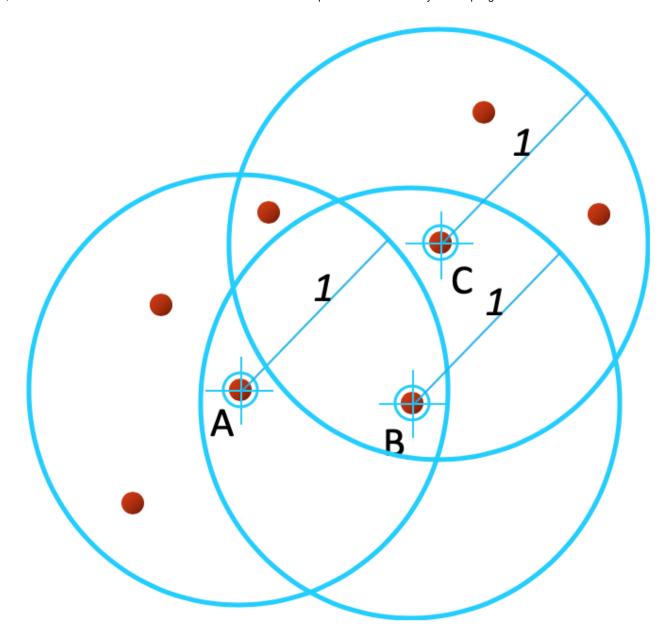




- × A
- **✓** B
- - **✓** □ D
- **⇒ ✓** E

Question 4 0 / 1 point

Consider the following points.



How would points A, B and C be characterized according to DBSCAN? (assume ϵ =1 and MinPts=4)

- A: noise | B: core | C: noise
- A: noise | B: border | C: noise
- A: noise | B: border | C: core
- A: border | B: noise | C: border

5/13/22, 3:37 PM	: Quiz Submissions - mini-Quiz 3 - 31392 Perception for autonomous systems Spring 22 - DTU Learn - Technical University of De
	A: core B: core C: core
	A: core B: border C: border
×	A: core B: noise C: core
•	A: core B: border C: core
Question	n 5 0 / 1 point
	er a color image with dimensions 640x480 pixels. We would like to cluster its pixels full use of both geometric and color information (including intensity/lightness).
	any clusters will the Mean Shift algorithm consider initially? e the exact number below)
Answe	er: 1 🗶 (307200, 307,200, 307.200)
Question	0 / 1 point
	er a color image with dimensions 640x480 pixels. We would like to cluster its pixels full use of both geometric and color information (including intensity/lightness).
What v	vould be the dimensionality of the problem in this case?
×	2
•	5
	4
	3
	Attempt Score:0 %

Overall Grade (highest attempt):0 %