Started on	Thursday, 4 February 2021, 2:06 PM
State	Finished
Completed on	Thursday, 4 February 2021, 2:30 PM
Time taken	23 mins 37 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 4.00 out of 4.00

You have a camera pair that are at a distance of 30 centimeters apart. The focal length of both cameras is 1092 (in pixel units) and the disparity of the observed point is 22 pixels. The distance to the world point in meters is:

- a. 1092 * 0.3 / 22 ✔
- b. 1092 * 30 / 22
- c. 1092 * 22 / 30
- d. 30 / (1092 * 22)

Your answer is correct.

The correct answer is: 1092 * 0.3 / 22

Question **2**

Correct

Mark 3.00 out of 3.00

In stereo configurations, the disparity between corresponding image points increases if: (select all choices that are correct)

- a. The camera pair moves farther away from the world point being imaged.
- b. If the world point moves in any direction parallel to the imaging plane
- c. The camera pair moves closer to the world point being imaged. ✔
- d. The world point being imaged moves farther away from the camera pair
- e. The world point being imaged moves closer to the camera pair ✔

Your answer is correct.

The correct answers are:
The world point being imaged moves closer to the camera pair,

The camera pair moves closer to the world point being imaged.

Question **3**

Correct

Mark 3.00 out of 3.00

Which of the following are valid constraints that are used in stereo matching

- [ ] a. None of these choices is correct
- [x] b. Epipolar Constraint ✔
- [x] c. Uniqueness Constraint ✔
- [x] d. Intensity Constraint (The intensity value does not change between images) ✖
- [ ] e. Homography Constraint (Images are related by a homography)
- [x] f. Smoothness Constraint (Nearby pixels have similar disparity) ✔
- [x] g. Ordering Constraint ✔

Your answer is correct.

The correct answers are:
Ordering Constraint,

Uniqueness Constraint,

Smoothness Constraint (Nearby pixels have similar disparity),

Epipolar Constraint

◄ Lecture 09: (ODD): Depth from Stereo

Jump to...

Lecture 11: (ODD) Quiz ►