Started on	Monday, 18 January 2021, 2:12 PM
State	Finished
Completed on	Monday, 18 January 2021, 2:15 PM
Time taken	3 mins 35 secs
Grade	**5.42** out of 10.00 (**54**%)
	For CBM, the grade above is shown relative to the maximum for all correct at C=1.
	Results for the whole quiz (4 questions)
Average CBM mark	0.54
Accuracy	54.2%
CBM bonus	0.0%
Accuracy + Bonus	54.2%
	Break-down by certainty
C=3	No responses
C=2	No responses
C=1	Responses: 4. Accuracy: **54%**. (Optimal range 0% to 67%). You were **OK** using this certainty level.

Question **1**

Incorrect

CBM mark 0.00
Weight 2.50

The criterion function in Harris Operator is given by:

- a. trace(H) / determinant (H) ✖
- b. Value of lambda+
- c. lambda1 * lambda2 / (lambda1 + lambda2)
- d. Value of lambda-
- e. None of the others

Certainty : C=1 (Unsure: <67%) C=2 (Mid: >67%) C=3 (Quite sure: >80%)

Your answer is incorrect.

The correct answer is:
lambda1 * lambda2 / (lambda1 + lambda2)

Question **2**

Correct

CBM mark 2.50
Weight 2.50

Which of the following criteria on the Eigen values of the H matrix indicates a highly unique region?

- a. Largest Lambda+
- b. Largest Lambda- ✔
- c. Smallest Lambda-
- d. None of the others
- e. Smallest Lambda+

Certainty : C=1 (Unsure: <67%) C=2 (Mid: >67%) C=3 (Quite sure: >80%)

Your answer is correct.

The correct answer is:
Largest Lambda-

Question **3**

Correct

CBM mark 2.50
Weight 2.50

The small motion assumption in Harris Corner Detector is used for which of the following steps?

- a. Use of Eigen values (lambda) for change quantification
- b. None of the others
- c. Defining the Sum of Squared Differences (SSD) criterion
- d. First-order approximation in Taylor series expansion of I(x+u,y+v) ✔
- e. Finding local maxima of thresholded f.

Certainty : C=1 (Unsure: <67%) C=2 (Mid: >67%) C=3 (Quite sure: >80%)

Your answer is correct.

The correct answer is:
First-order approximation in Taylor series expansion of I(x+u,y+v)

Question **4**

Partially correct

CBM mark 0.42
Weight 2.50

Which of the following are desirable invariance for a feature detector? (select **all** that are applicable)

- [ ] a. Invariant to Elastic Deformations
- [x] b. Invariant to color of illumination ✔
- [x] c. Invariant to Object Swap ✖
- [ ] d. Invariant to Scale
- [x] e. Invariant to Rotation ✔

Certainty : C=1 (Unsure: <67%) C=2 (Mid: >67%) C=3 (Quite sure: >80%)

Your answer is partially correct.

You have correctly selected 2.
The correct answers are:
Invariant to Scale,

Invariant to Rotation,

Invariant to color of illumination

◄ Lecture 4 Quiz (ODD) : Feature Detection

Jump to...

Lecture 5 Quiz (ODD): Projective Geometry ►