<u>Dashboard</u> / My courses / <u>Computer Vision</u> / In-Class Quizzes / <u>Lecture 5 Quiz (ODD): Projective Geometry</u>

| Started on | Thursday, 21 January 2021, 2:07 PM |
|-----------------------|---|
| State | Finished |
| Completed on | Thursday, 21 January 2021, 2:20 PM |
| | 13 mins 28 secs |
| Grade | 3.90 out of 10.00 (39 %) |
| Question 1 | |
| Partially correct | |
| Mark 0.90 out of 3.00 | |
| represented by the | s P1 and P2 that pass through the origin in 3D space (not homogeneous co-ordiantes). They are corresponding normal vectors: v1: [1 4 -3] and v2: [2 1 2]. Which of the following are true regarding TE: Select all correct answers) |
| a. The two plan | es are perpendicular to each other |
| □ b. The planes F | P1 and P2 are neither perpendicular, nor parallel to each other |
| c. The two plan | es are parallel to each other |
| d. The point rep | presented by v1 lies on plane P2, and the point represented by v2 lines on plane P1 |
| e. The intersect | tion of the two planes is a line passing though origin |
| Your answer is parti | ially correct. |
| You have correctly s | |
| The correct answers | |
| The two planes are | perpendicular to each other, |
| The intersection of t | the two planes is a line passing though origin, |
| The point represent | ed by v1 lies on plane P2, and the point represented by v2 lines on plane P1 |
| Question 2 | |
| Incorrect | |
| Mark 0.00 out of 3.00 | |
| | |
| The line isining the | point at infinity: [3 4 0]T and the point: [{2 3 1]T is given by the 3-vector: [4 × -3 |
| | point at infinity: [3 4 0]T and the point: [{2 3 1]T is given by the 3-vector: [4 -3 |
| x 1]T | |
| -1. | |

| Incorrect | | | |
|--|-----------------|------------|---|
| Mark 0.00 out of 1.00 | | | |
| | | | |
| True or False: The only point in the projective | space that d | loes not l | have a corresponding image is the world origin. |
| Select one: | | | |
| True ▼ | | | |
| ○ False | | | |
| | | | |
| It is the camera centre, not the world origin. | | | |
| The correct answer is 'False'. | | | |
| | | | |
| Question 4 | | | |
| Correct | | | |
| | | | |
| Mark 3.00 out of 3.00 | | | |
| Mark 3.00 out of 3.00 | | | |
| | a set of kno | own world | d points and ended up with the following P matrix. |
| | | own world | d points and ended up with the following P matrix. |
| | | own world | d points and ended up with the following P matrix. |
| You ran the camera calibration procedure with Row1: P1 = [0.1432 0.0084 0.0221 -0.0026] | | own world | d points and ended up with the following P matrix. |
| You ran the camera calibration procedure with Row1: P1 = [0.1432 0.0084 0.0221 -0.0026] Row2: P2 = [0.0088 0.1071 -0.0976 0.0534] | | own world | d points and ended up with the following P matrix. *) x 10^-6 |
| You ran the camera calibration procedure with Row1: P1 = [0.1432 0.0084 0.0221 -0.0026] Row2: P2 = [0.0088 0.1071 -0.0976 0.0534] Row3: P3 = [0.0004 -0.0018 -0.0020 0.9772] The image center, (u0, v0) is given by (|] x , | -1 | ★) x 10^-6 |
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