Weekly Quiz 2

The due date for submitting the assignment has passed. As you may have noticed, you have not submitted this assignment.

1. Which of the following factors does NOT affect an edge in an image?
   - Surface curvature
   - Intensity discontinuity
   - Textural discontinuity
   - Surface normal discontinuity
   - All of the above
   - The above is incorrect
   - Intensity discontinuity
   - The edge is detected using the Canny algorithm.
   - The Canny edge detector is sensitive to noise.
   - The Canny edge detector is robust to non-analytic objects.

2. Which of the following statements is false?
   - All the statements are correct.
   - The Canny edge detector is not sensitive to noise.
   - The Canny edge detector is not robust to non-analytic objects.
   - The Canny edge detector is sensitive to noise.
   - The above is incorrect
   - The Canny edge detector is not robust to non-analytic objects.

3. In which of the following algorithms does the threshold value of 0.57 be used to determine if an edge is present?
   - Hough Transform
   - Canny Edge Detection
   - Sobel Edge Detection
   - Laplacian of Gaussian
   - The above is incorrect
   - The above is incorrect
   - Hough Transform
   - The above is incorrect

4. Which of the following statements is false?
   - If one edge is more gradual than the other, then it should be more effective.
   - If one edge is more gradual than the other, then it should be less effective.
   - A negative Laplacian of Gaussian kernel can be used to detect edges.
   - A positive Laplacian of Gaussian kernel can be used to detect edges.
   - The above is incorrect
   - A positive Laplacian of Gaussian kernel can be used to detect edges.
   - A negative Laplacian of Gaussian kernel can be used to detect edges.
   - The above is incorrect

5. Which of the following keypoints corresponds to a potential interest point?
   - The largest magnitude of a corner.
   - The largest magnitude of an edge.
   - The largest magnitude of a boundary.
   - The largest magnitude of a texture.
   - The above is incorrect
   - The largest magnitude of a corner.
   - The largest magnitude of a texture.
   - The above is incorrect

6. Which of the following keypoints corresponds to a potential interest point?
   - The largest magnitude of a corner.
   - The largest magnitude of an edge.
   - The largest magnitude of a boundary.
   - The largest magnitude of a texture.
   - The above is incorrect
   - The largest magnitude of a corner.
   - The largest magnitude of a texture.
   - The above is incorrect

7. Which of the following keypoints corresponds to a potential interest point?
   - The largest magnitude of a corner.
   - The largest magnitude of an edge.
   - The largest magnitude of a boundary.
   - The largest magnitude of a texture.
   - The above is incorrect
   - The largest magnitude of a corner.
   - The largest magnitude of a texture.
   - The above is incorrect

8. Which of the following keypoints corresponds to a potential interest point?
   - The largest magnitude of a corner.
   - The largest magnitude of an edge.
   - The largest magnitude of a boundary.
   - The largest magnitude of a texture.
   - The above is incorrect
   - The largest magnitude of a corner.
   - The largest magnitude of a texture.
   - The above is incorrect

9. Which of the following keypoints corresponds to a potential interest point?
   - The largest magnitude of a corner.
   - The largest magnitude of an edge.
   - The largest magnitude of a boundary.
   - The largest magnitude of a texture.
   - The above is incorrect
   - The largest magnitude of a corner.
   - The largest magnitude of a texture.
   - The above is incorrect

10. Which of the following keypoints corresponds to a potential interest point?
    - The largest magnitude of a corner.
    - The largest magnitude of an edge.
    - The largest magnitude of a boundary.
    - The largest magnitude of a texture.
    - The above is incorrect
    - The largest magnitude of a corner.
    - The largest magnitude of a texture.
    - The above is incorrect

11. Which of the following keypoints corresponds to a potential interest point?
    - The largest magnitude of a corner.
    - The largest magnitude of an edge.
    - The largest magnitude of a boundary.
    - The largest magnitude of a texture.
    - The above is incorrect
    - The largest magnitude of a corner.
    - The largest magnitude of a texture.
    - The above is incorrect

12. Which of the following keypoints corresponds to a potential interest point?
    - The largest magnitude of a corner.
    - The largest magnitude of an edge.
    - The largest magnitude of a boundary.
    - The largest magnitude of a texture.
    - The above is incorrect
    - The largest magnitude of a corner.
    - The largest magnitude of a texture.
    - The above is incorrect

Assume the following neighborhoods:

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- The above is incorrect
- The above is incorrect
- The above is incorrect
- The above is incorrect

Correct Answer:

- 1, 2, 4, 5, 6, 7, 8
- 1, 2, 4, 6, 8
- 1, 2, 4, 5, 6, 7
- 1, 2, 4, 5, 6, 7, 8

Weekly Quiz 2 is due on 2020-09-08 23:59:59.