

CV Question Bank

1. Define following terms
 - (i) Digital Image (ii) Radiometry (iii) Image Formation.
2. What is the Image Geometric/Spatial Transformation? Why it is used?
3. What is computer vision? Explain the various applications of computer vision.
4. List out the Advantages of SIFT Features.
5. Write down the Morphological Operations.
6. Explain Arithmetic Mean Filter with example.
7. Describe the Fisheye Camera Models.
8. Explain the Applications of motion tracking.
9. Write on note an Invariant Classification.
10. What is image segmentation? Explain mean shift segmentation in detail.
11. Give difference of Enhancement and Restoration.
12. Explain Discrete Fourier Transform(DFT).
13. List out the Types of geometric Transformation and explain each.
14. Give and explain Hit, Miss and Fit Structuring Elements.
15. Explain an Intrinsic and Extrinsic Parameters.
16. Write down the steps of Region Split and Merge.
17. Describe an Active Contour.
18. Explain Projections and types of projections
19. What is optical flow? Discuss optical flow in motion analysis.
20. Explain Feature-based Techniques
21. Write a note HOG(Histogram of Oriented Gradients).
22. Discuss the Filtering Correlation and Filtering Convolution.
23. Define: Point Detection, Line Detection, Edge Detection
24. Explain Linear Stretching and Histogram Stretching with example.
25. Explain the Kalman Filtering and Different function of the Kalman filter.
26. What is Radiometry? And explain it
27. Define: Image Processing, Morphology, Thresholding
28. What is the digital image? Explain.
29. What is the Image Geometric/Spatial Transformation? Why it is used?
30. Write difference between Enhancement and Restoration.
31. Explain Arithmetic Mean Filter with example.
32. What is computer vision? Explain the applications of computer vision.
33. Explain Hit, Miss and Fit Structuring Elements.
34. List out the Advantages of SIFT Features.
35. Explain Fundamental Operations.
36. Explain Compound Operations.
37. Explain Histogram Stretching with example.
38. Explain Discrete Fourier Transform(DFT).
39. Explain the Types of geometric Transformation.
40. Define: Point Detection, Line Detection, Edge Detection
41. What is Active Contour?
42. Explain Projections and types of projections.
43. Explain an Order Statistics Filters with example.
44. Discuss the Filtering Correlation and Filtering Convolution