

Code No: 138BH

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, December - 2020

COMPUTER VISION

(Electronics and Communication Engineering)

Time: 2 hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Explain the concepts of textures in brief. [7+8]
b) List and describe the shifts in rectangular neighbors.
- 2.a) What is the concept of circular operator?
b) Summarize Harris Interest point operator. [6+9]
- 3.a) Outline Distance function and their uses.
b) Develop solutions to the problems of Occlusion. [7+8]
4. List and explain the problems with centroidal profile approach and name the solutions for the same. [15]
- 5.a) Summarize Longitudinal Line Localization.
b) What do you mean by line fitting and line localization? [7+8]
- 6.a) Demonstrate diameter bisection method for ellipse detection.
b) Outline the application of Hough Transform to line detection. [7+8]
- 7.a) Explain shape from shading.
b) What do you mean by photometric stereo? Explain in detail. [7+8]
8. Illustrate the complete process of In-vehicle vision system. Use code snippets wherever necessary. [15]

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