

Code No: 138BH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

COMPUTER VISION

(Electronics and Communication Engineering)

Time: 2 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

— — —

1. Discuss in detail the following morphological operations:
a) Erosion b) Dilation [7+8]
- 2.a) List various approaches used in Image enhancement and then discuss any one method of it.
b) List and explain the fundamental steps in digital image processing. [7+8]
3. Name different types of boundary tracking procedures, explain the square tracing algorithm. [15]
4. Write a short note on followings:
a) Fourier descriptors b) Region descriptors. [7+8]
- 5.a) Distinguish Hough Transform and generalized Hough transform.
b) Discuss about the RANSAC for straight line detection. [7+8]
- 6.a) What is line detection, Explain the line detection by using HT?
b) Discuss about accurate center location by using Hough transform. [7+8]
- 7.a) How to evaluate extracted shape descriptors in 3D vision? Discuss.
b) Explain about photometric stereo. [7+8]
- 8.a) Discuss about combining views from multiple cameras.
b) Explain the identifying road signs in vehicle vision system. [7+8]

---ooOoo---