Ex-no: 9. FUZZY COGIC - EMAGE PROCESSING. wate:

The aim of implementing Juzzey logic for edge detection is to enhance the robustion and accuracy of edge detection in image by handling uncultainities in juxel insternity L'nami dioni

PROCEDURE FOR FUZZY LOGIC EDGE DETECTIONS: den: set y the environment.

1. Open MATLAB: Einure you have accent to MATCHI with the image priocening toolbox and fuzzy logic toolbox installed.

Mena: Emport- and convert- image to Grayscale.

1). nead the nois range.

2)- Convert la grayicale Alers: Convert image to double-precision

i). convert to double. Many: Obtain image gradients.

1) obejine omadient-getters: 2). calculate gradients.

s). plot image gradient-1.

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Mens: Define Juzzy infound jou edge detection. nystem (REA) 1) croale FIA. a) Add inpuls. 3). Define membeenlige function for injuly. a) Add outputs. 5) æfine memberelig functions for output 6) plot numbership junctions step 6: Plot membershig, functions. ). add rules for Fis-Alego 7: Evaluate Fis. 1). Evaluate edge detection. Ays: Plot remille. 1. Plot original Grayscale Image. 2. Plot-detection edges. of Kowi Josephie · Dilange and Description of 

neult:The program was succenfully meented & 0/p is verified.