FUZZY LOGIC - INAGE PROCESSING fa Noi9 Date: The arm of emplementing fuzzy logic for edge detection is to enhance the robustness a accuracy of edge detection on mages by handling uncertainettes in pexel enstensity transching Procedure: Step1: Set up the Enveronmond 1. Open MotLat: Ensure you have accepto MATLAB with the grage processing tool box as fuzzy logic toolbox installed. Step 2: Import a convert emage to Brayscale 1. Read the ROB Image 2. Convert to Gray scale steps: Convert image to doubte precision data. 1. Convert to double Etep4: Obtain Emage gradient 1. Define gradient feltess 2 calculate Gradients 8top5: Deféne fussy inference system (F18)
for edge detection 1. Create FIS 3. Défine membership du suitput 5. Define Mernbertip functions for output 6. Plot Membership functions Step 6: Specify Fle sules 1. Add rules for FIS Evalule PIS Evaluate edge detection Step 8: Plot sendt

and the second s for the state of the state of the property of the state of th the testaritions long in contains such Som toping on the set of the in on Hattal: Evenue you have evered to ions well food & massery massery all along the 1. fre apple toolbox installed to one grade 'loud the Rink I mage ... and to ency scale 17 1 lops convert integrate to double previous dadadvab of Lovina) outetin mange gradient with the still and mindrate & Brandients not mage problemb inference system (The ice of white son offer de tection ! Create 4 (5 )! highest of gerbischnen wifer dispris total held output Define Manbacking functions to entirely described the production of the described to the production of the described to the production of Rosult:- program was successfully estected and the Office volfeed.