Fuzzy Logic - I mage Processing 10000 done 40th 891424 & 38 11 38 43 Ex No: 9 AIM: 1519 (1108 410198 \$1 \$200 40 113 1000) The aim of implementing fuzzy logicis edge det ection is to en nance me robustness and accuracy of edge detects in image by handling uncertainities in pixel intensity transactions. Procedure: and especial control of Stepl: Set up tre en vironment 1. OPEN MATIAB! Ensure you have access to mattab with the image Processing tool box and fuzzylogic tool box i'n Stalled. Stepz: Import and convert image to Gray 1. Read the RGB image Scale. 2. Lonvert to Gray Scale Step3'- Convert image to double - Precision 1. convert to double. Steph: Obtain Image gradient 1. Define a radients filters 2. calculate Gradients 3. Plot image gradients DOX 3 FILMER CARS SHEET SAN 3-17

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sieps pefine fuzzy in berence systemit for edge detection 1. Greate Fis 1 2 pad inputs 3. Define me mbership bunction for inputs 4. Add out Put s. Define me mbership bunction for output 6 Plot membership bunction. steph; specify FIS rules 1 Add rules for FIS GEEP7: Evaluate Fls l'Evaluate edge de tection SEEPS! Plot results. 1. Plot original Grayscale image 7 Plat de Ee Eed ed yes OlP. Result! The Drogram was Successfully ecuted and the output i's verified. 19/11/2024 17:57