| 100 to 100 p | Date: / _120 |
|--|---|
| | University of Punjoub |
| | Name: Zeeshan Ahmad Roll No: BIT 21023 class: BSIT (Morning) subject: |
| | EV (September) |
| | arayscal image |
| | Image: [0,0,1,1,2,2,3,3,4,4,5] so the histogram is Pixel value 0 1 2 3 45 |
| | Frequency Pi) 2 2 2 2 2 2 1 Calaulating Threshold |
| The state of the s | calculating Threshold using otsu method. |
| | Given Data: Pixel Value: [0, 1, 2, 3, 4, 5] |
| | Frequency: [2,2,2,2,2] |

| Date: $1/20$ Step 1 Total Pixel $N = 2+2+3+2+3+1 = 11$ Mean intensity $LT = (CX2) + (IX1) + (242) + (342) + (442) + (521)$ $UT = 2 + 4 + 6 + 0 + 5 = 25 = 25$ III Step 3: Try threshold at different values at compute between. |
|---|
| Total Pixel $N = 2+2+2+2+1 = 11$ Mean intensity $L(T) = (CX) + (IX) + (242) + (342) + (442) - (5-1)$ $UT = 2 + 4 + 6 + 8 + 5 = 25 = 25$ III Step 3: |
| $UT = (c \times 1) + (l \times 1) + (2 \times 2) + (3 \times 2) + (4 \times 2) + (5 \times 1)$ $UT = 2 + 4 + 6 + 8 + 5 = 25 = 25$ 11 $5 = P3$ |
| $UT = (c \times 1) + (l \times 1) + (2 \times 2) + (3 \times 2) + (4 \times 2) + (5 \times 1)$ $UT = 2 + 4 + 6 + 8 + 5 = 25 = 25$ 11 $5 = P3$ |
| $UT = (c \times 2) + (l \times 2) + (2 \times 2) + (3 \times 2) + (4 \times 2) + (5 \times 1)$ $UT = 2 + 4 + 6 + 8 + 5 = 25 = 25$ 11 $5 = P3$ |
| $UT = 2 + 4 + 6 + 0 + 5 = \frac{17}{11} = \frac{25}{11}$ $5 = \frac{17}{11}$ |
| steps: |
| steps: |
| steps: |
| Try threshold at different values ut compute between. |
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| values ut compute between. |
| |
| class varience for each threshold |
| threshold T=2 copting Guess) |
| class 1 : [0,1,2] |
| elass 2 : [3,4,5] |
| C 1955 2 |
| eu, = 2+2+2 = -6 |
| U, = (0×2) +(1×2)+(2×2) |
| e(i = 1) |
| 019552; |
| $\omega_{L} = \frac{1+2+1}{2} = \frac{5}{2}$ |
| |
| 01, = (302) + (402) + (501) = 3.8 |

)ate: __/__/20___ step 4. calculate between class Varience 62B= w,xw, x (4,-4,)2 DB = 5 x I (1-38)2 0.122 conclusion: threshold is T=2. optimal