assynment

7.8 modle part of Carry person non-maximum supreson for iner 3x3 array

3	3	3	3	3
3	10	7	5	3
3	20	8	7	3
3	5	30	10	3
3	3	3	3	3

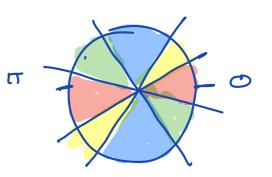
Ø	0	0	٥	O
0	0	-42	0	0
0	101	6/8	0	0
0	411	0	218	8
O	0	0	ø	ð

magnitude

 $\angle (\nabla \Sigma)$

phase, O

Solution



pixel val	angle		neishbors	local max
10	0	huv.	[3109]	yes
9	-4T	vert (ohre)	[398]	yes

0

5 4 come (20 5 3) no 30 () hor (50 30 b) yes

0 9 0 0 8 0 0 30 10

090 080 03010 Supression. 7.18 campute Harris Stephers corner measure for central pixel, assume 3×3 wondow with uniform weight. Tx= -5-95 Ty= 2-7-6 7-3-8 -693 -523 uniform weight, set to 1 R = det M - (k) strace (m) Styp ~ 0.04 -0.06 RKO: edge

IRI small: flat

R>0: corner

Solution

$$Z_{x} = 25 + 81 + 25 + 49 + = 379$$

$$(-5)^{2} + (-9)^{2} ...$$

$$Z_{y} = (2)^{2} + (-7)^{2} + (-6)^{2} + = 273$$

$$Z_{x} \cdot Z_{y} = (-5) \cdot 2 + (-9) \cdot (-7) + 5 \cdot (-6) + ... = 25$$

$$M = \begin{bmatrix} 379 & 25 \\ 25 & 273 \end{bmatrix}$$

det $M = 379.273 - (25)^2 = 102842$ trace M = 379 + 273 = 652let k = 0.04

R= cornerness = detM-k.traceM

= 85838

R>O and not small = D corner point