$$E(\alpha x, \alpha y) = \sum w(x, y) \left[T(x, y) - T(x + \alpha x, y + \alpha y) \right]$$

$$g_{\alpha ussion} \rightarrow denoise$$

$$E(\alpha x, \alpha y) \approx \sum w(x, y) \left[T(x, y) - T(x, y) - T(x, y) \right]^{2}$$

$$= T_{\alpha}(x, y) \left[T_{\alpha}^{2} \alpha x^{2} + T_{\alpha}^{2} \alpha x \alpha y + T_{\alpha}^{2} \alpha y^{2} \right]$$

$$= \sum w(x, y) \left[T_{\alpha}^{2} \alpha x^{2} + T_{\alpha}^{2} \alpha x \alpha y + T_{\alpha}^{2} \alpha y^{2} \right]$$

$$M = \sum w(x, y) \left[T_{\alpha}^{2} T_{\alpha}^{2$$

the eigenvalue

andreim with E

U: rotation to different basis oigenvalue li la st As he to corner one of 2 to edge 2, 22 + flat Compute eigenvalue 700 expercive V= det M - K (trace M) pf M= UZUT [3.04, a06] det(M)= dec(E)= 2, 2 = AP-BC det (M-22): 92-(A+0)2-AD-BC AIFAL = AID

trace(M)= AIFAL = AID

L = 1/2 - K(2, +22)2 R large A. Az large corner dut need to R20 Am) Zz or Accide edge do decomposition IRI small A, 2 small flat

Harris Corner Detection 1. Calculate the gradient Ix Ty 2. apply Gaussian filter to densise

3. Get M

4. R = Pet (M) -k-Trace (M) 2

k=[v. u4, v. 06]

checking the threshold