Gentral moments of area

- moments of area relative to the untroid of the blob

- used if we change the location of the blob

-  $M_{X}P = \sum_{image} (x-\bar{x})^{2} (y-\bar{y})^{p} f(x,y)$  where  $\bar{x} = \frac{M_{10}}{M_{00}}$ ,  $\bar{y} = \frac{M_{01}}{M_{00}}$ 

- calculate orientation of the blob using Mro and Moz

Colour distribution

- used to describe a blob and keep track of these blobs

- useful characteristic of blobs because it is independent of area or orientation

- when the brightness changes

Polution:

I normalise the brightness (break down the image in ports with same brightness)

2 only record HS from HSV, as V corresponds to brightness

Blob tracking

- finding the blobs in the second image that match blobs in the first image - How? => look for invariant properties (e.g. colour distribution, shape properties)

don't change from one frame to another

- Predictive tracking for every bob vie are tracking, maintain its whent location, its current velocity (how fast is moving and in vahat direction) and the invariants