Finding More Shopes 271-279

i). circle. $(x-x_0)^2 + (y-y_0)^2 = r^2$ and cetatre x_0, y_0 points x_0, y_0 read ra a x_0, y_0 or r

Hairy

IF edge (x, y) > throbot

Hr Ermin, Trax

EVO x'= x+ roso

y'= y+ rsno

acourly, y) Prus 1}

Afterwards search of peak in

acourle for

acourle for

ii) Ellipses? (x-x0) + (y-40) = 1 gives GP parameter ad ainteton 50 parameter space. accumulator space 3 10to large. for 100 values for each parameter in). Treal et down? use differchation des. $(x-x_0)^2 + (y-y_0)^2 = r^2$ Differentiete 2(x-x0) + 2(y-y0) dx = 0

doc y-go

Acy direction.

M. arbitrary shopes have

no equation.

a) template nothing transform.

b) generalised Hough transform.

form a R-table e use it to $\frac{2}{\sqrt{2}} \left(\frac{1}{\sqrt{1}}, \frac{1}{\sqrt{1}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ $\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right)$ Procedure, que Rtelle. tind paint get edge directions of 1,0 look up combinations of 5,0 look up combination space.