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Detection of Ellipse

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Project Target

To detect ellipses in the images/videos.
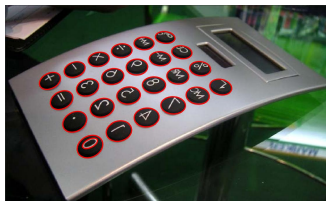

Figure: Input

Figure: Output

Two major ways

Hough Transform

- Slow
- Sacrifice accuracy for efficiency

Edge Following

- Derived from Arc-support LS
- use greyscale image (gradient)
- Greedy for efficiency

Methods

- Detect the arc segements
- Form to acrs
- Predict the 5 parameters for ellipses
- Co-cluster
- Validation