



Practice 4 Image Segmentation



Questions and Practices

- 1. Thresholding segmentation of “figures.jpg”
- PLS refer to Fig.6.1(page 177)

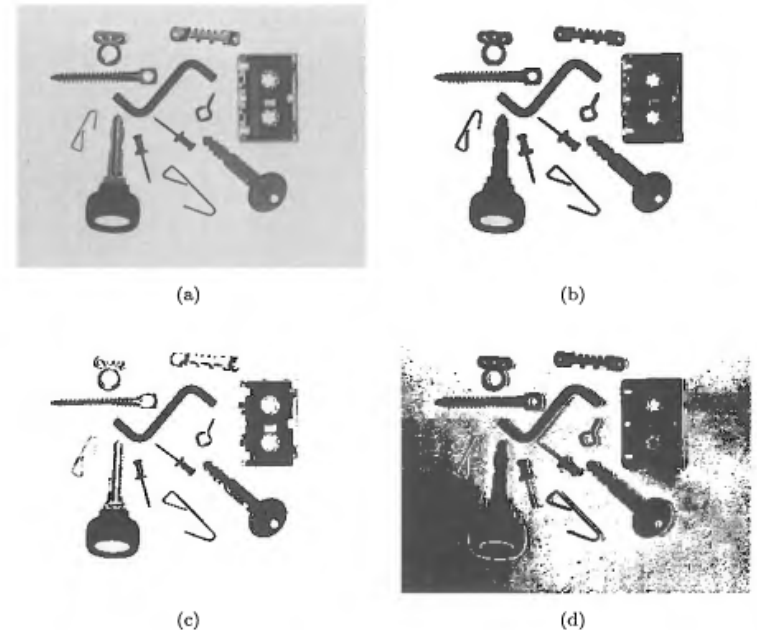
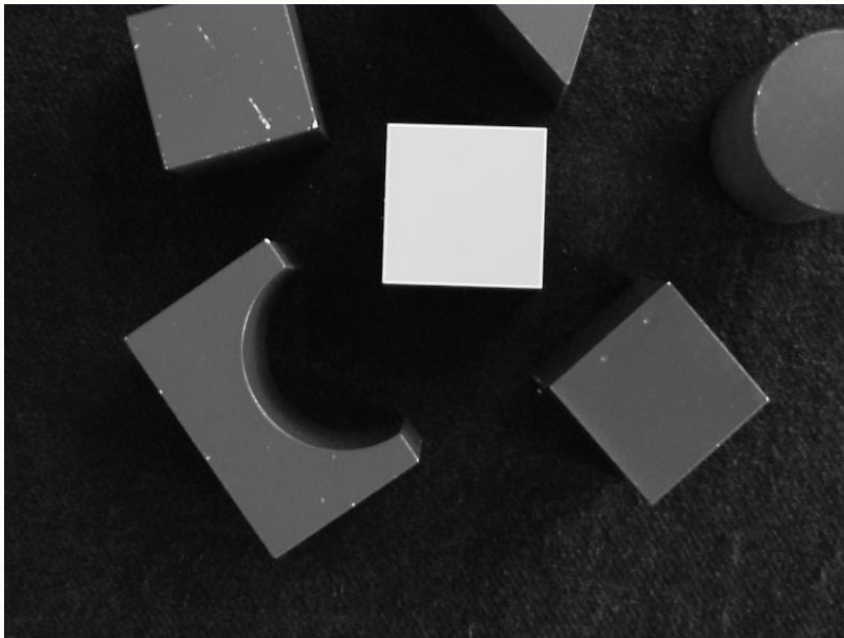


Figure 6.1: Image thresholding. (a) Original image. (b) Threshold segmentation. (c) Threshold too low. (d) Threshold too high.

Questions and Practices

- 2. Edge-based segmentation(Edge detectors) of “car.jpg”;



Questions and Practices

- 3. Edge-based segmentation(Hough transforms)
 - 1)PLS refer to "hough_lines_demo.m “,
 - 2)PLS refer to Fig.6.34

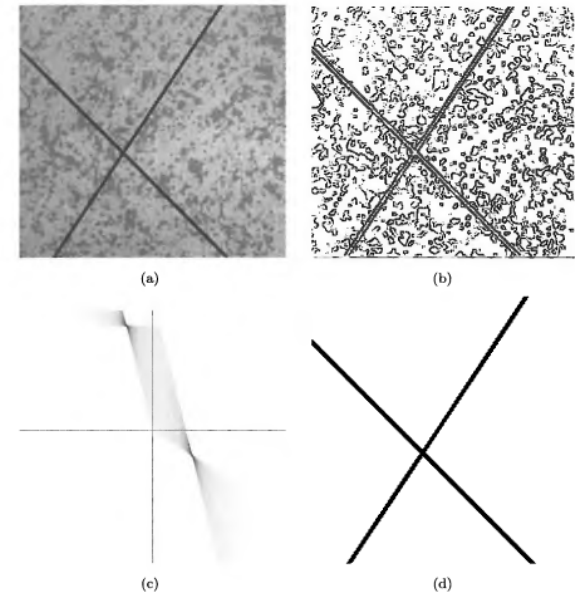
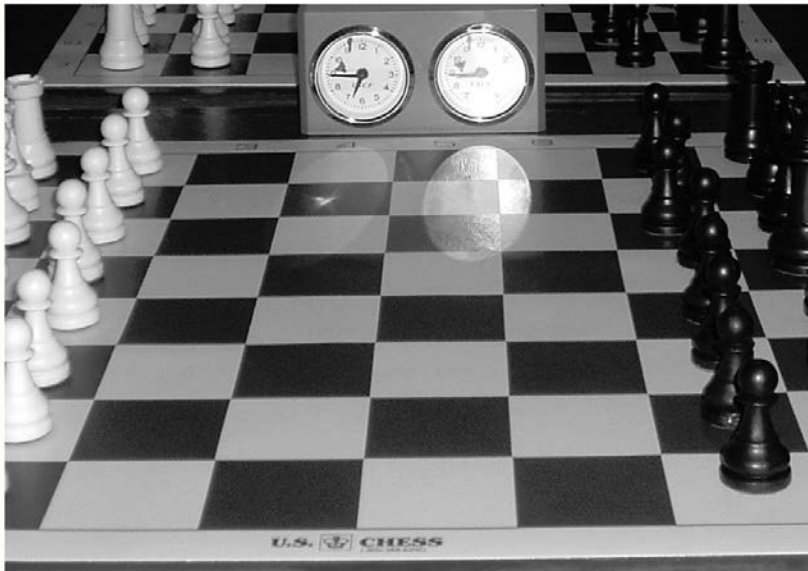
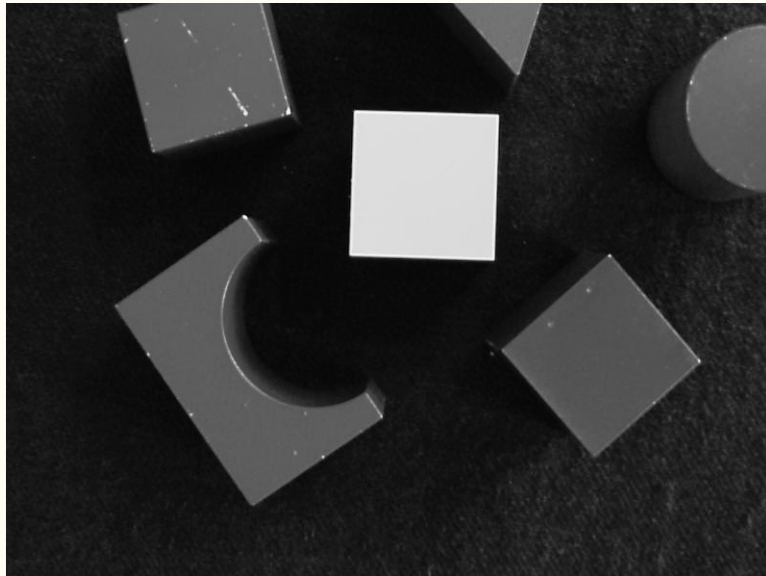


Figure 6.34: Hough transform—line detection. (a) Original image. (b) Edge image (note many edges, which do not belong to the line). (c) Parameter space. (d) Detected lines.

Questions and Practices

- 4. Region growing segmentation of “figures.jpg”;
1) PLS refer to figures below; “figures.jpg” is in folder “Images and some codes for practice 4”;
2) PLS refer to “regiongrowing.m”



Figures.jpg

