Emre Çakmak

Octave:

Windows 10, GNU Octave, version 6.4.0 2021

1) edge detection is adversely affected because the values ​​at the upper points are high

2)Choosing the right threshold value is almost impossible, but choosing the mean value is preferable, Also, since the amount of noise in the picture is high, it may be right to choose the noise value by trial and error method.

threshold value is 100 threshold value is 232

 

3) applying smoothed to the picture reduces the noise so applying a Sobel filter to the smoothed picture will be more affordable in terms of detail extraction because we reduced the noise value in the picture with the smoothed filter

smoothed value more



smoothed value less



4) Threshold value Getting mean wasn't enough for me, so I tried to find the most accurate value by trial and error.