

Report

I wrote two functions in “fv.m” and ‘fm.m’ for this assignment. By reading the code in ‘rmfilter.m’, I had seen that @fv is for computing the dispersion and @fm is for computing the mean. The main difficulty in this assignment is really to read and understand the code provided, and figure out the relationship between the script code with the two functions I shall be implementing.

I received a moderately working result. The original image was blurred after running through the filter:



The lizard_sn.png went through the filter and had its noises mostly removed:



Conclusion:

The assignment helped understand the usage of filters, both in mathematical form and in MATLAB. I also fully learned about the algorithm and the effect of the rotating mask method for smoothing. During the assignment, the dimensions of the data types and the complexity of the code gave me some difficulties, but I was able to overcome.