

Computer-vision-Homework 8

Noise Removal

Due date : 07 Dec 2021

Gaussian Noise with amplitude = 10, SNR = 13.589



3*3 Box Filter, SNR 16.399

5*5 Box Filter, SNR 13.602



3*3 Median Filter, SNR 16.399



5*5 Median Filter, SNR 13.602



Opening-then-closing, SNR 13.244



Closing-then-Opening, SNR 13.548



Gaussian Noise with amplitude = 30, SNR = 2.873



3*3 Box Filter, SNR 10.561



5*5 Box Filter, SNR 11.138



3*3 Median Filter, SNR 10.941



5*5 Median Filter, SNR 12.694



Opening-then-closing, SNR 11.081



Closing-then-Opening, SNR 7.991



Salt and Pepper Noise with threshold = 0.05, SNR = 0.968



3*3 Box Filter, SNR 9.328



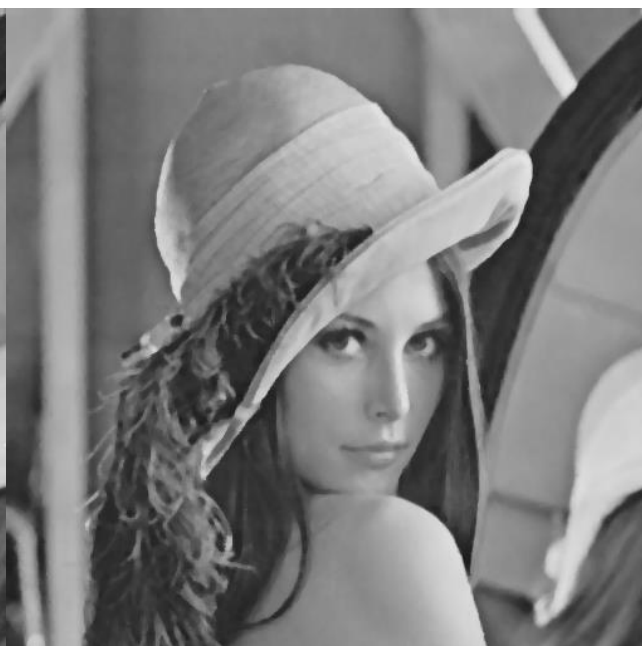
5*5 Box Filter, SNR 10.645



3*3 Median Filter, SNR 19.283



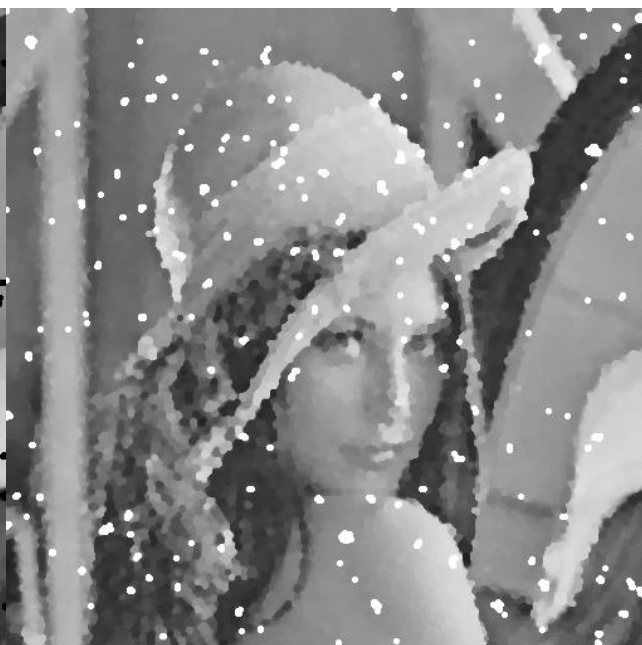
5*5 Median Filter, SNR 16.363



Opening-then-closing, SNR 6.100



Closing-then-Opening, SNR 5.456



Salt and Pepper Noise with threshold = 0.1, SNR = -2.090



3*3 Box Filter, SNR 6.258



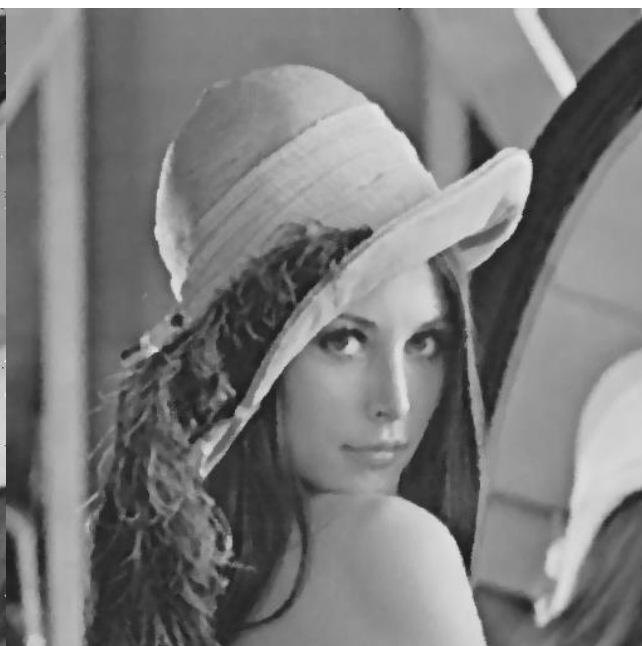
5*5 Box Filter, SNR 8.203



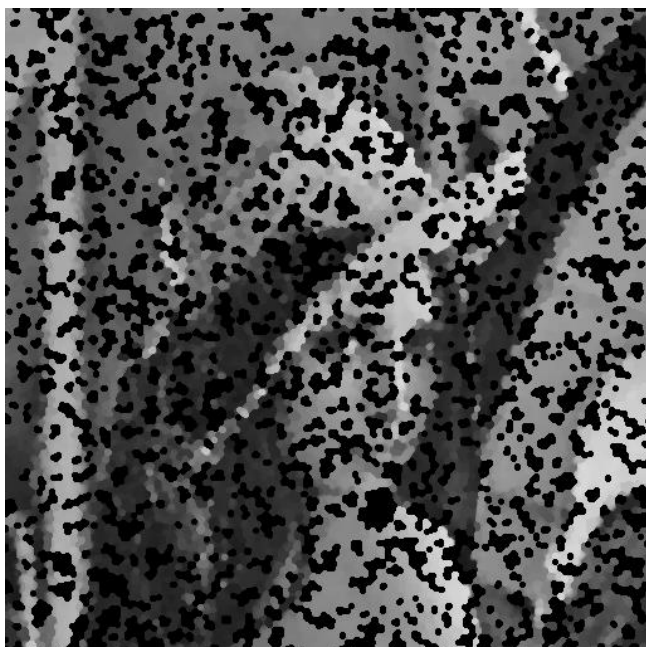
3*3 Median Filter, SNR 14.947



5*5 Median Filter, SNR 15.775



Opening-then-closing, SNR -2.049



Closing-then-Opening, SNR-2.650

