

Homework 8
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1. Gaussian noise, amplitude = 10



Gaussian noise, amplitude = 10, SNR = 13.907



3x3 box, SNR = 17.822



5x5 box, SNR = 14.873



3x3 median, SNR = 17.910



5x5 median, SNR = 16.074



Opening-then-closing, SNR = 13.266



Closing-then-opening, SNR = 13.618

2. Gaussian noise, amplitude = 30



Gaussian noise, amplitude = 30, SNR = 2.288



3x3 box, SNR = 9.950



5x5 box, SNR = 10.921



3x3 median, SNR = 10.955



5x5 median, SNR = 12.631



Opening-then-closing, SNR = 7.805



Closing-then-opening, SNR = 7.855

3. Salt-and-pepper noise, probability = 0.05



Salt-and-pepper noise, probability = 0.05, SNR = 0.919



3x3 box, SNR = 9.437



5x5 box, SNR = 11.167



3x3 median, SNR = 19.074



5x5 median, SNR = 16.36



Opening-then-closing, SNR = 5.923



Closing-then-opening, SNR = 5.987

4. Salt-and-pepper noise, probability = 0.1



Salt-and-pepper noise, probability = 0.1, SNR = -2.092



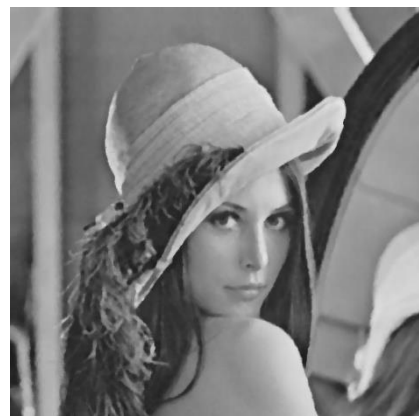
3x3 box, SNR = 6.323



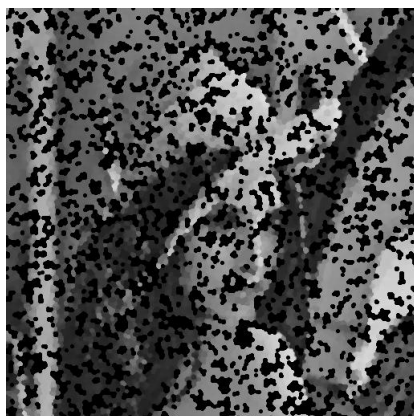
5x5 box, SNR = 8.535



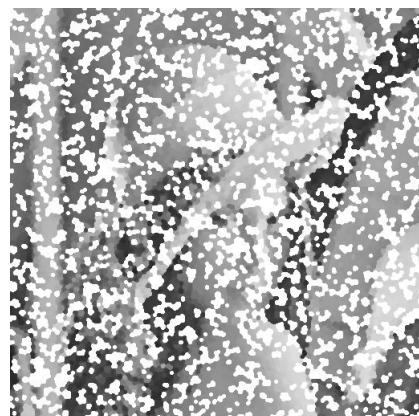
3x3 median, SNR = 14.672



5x5 median, SNR = 15.725



Opening-then-closing, SNR = -2.032



Closing-then-opening, SNR = -2.495