Computer Vision Homework 8   D07922015   謝銘峰

1. Gaussian noise amplitude=10

Gaussian noise, amplitude=10, SNR = 13.584736188167772

3x3 box, SNR = 17.739475640063077

5x5 box, SNR = 14.863966457019636

3x3 median, SNR = 17.674608539116317

5x5 median, SNR = 16.001124968968593

Opening-then-closing, SNR = 13.2375

Closing-then-opening, SNR = 13.6011

2. Gaussian noise amplitude=30

Gaussian noise, amplitude=30, SNR = 4.157350716855742

3x3 box, SNR = 12.58801028852668

5x5 box, SNR = 13.29349025389245

3x3 median, SNR = 11.062790195130201

5x5 median, SNR = 12.892238198356491

Opening-then-closing, SNR = 11.14692

Closing-then-opening, SNR = 11.21222

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

Salt-and-pepper noise, probability=0.1, SNR = -2.1224174515668217
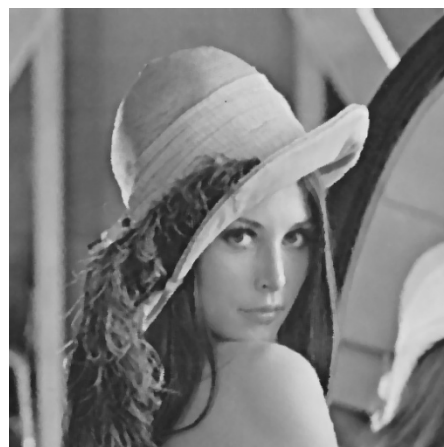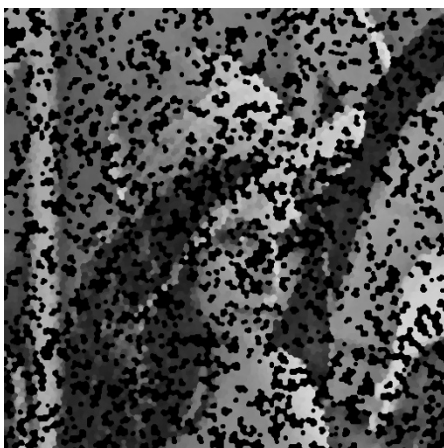
3x3 box, SNR = 6.306437670804962
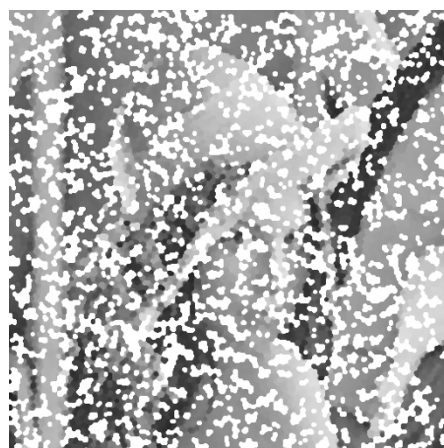

5x5 box, SNR = 8.494774860538238

3x3 median, SNR = 14.78222013429682

5x5 median, SNR = 15.739516027669707

Opening-then-closing, SNR = -2.17365

Closing-then-opening, SNR = -2.51068

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

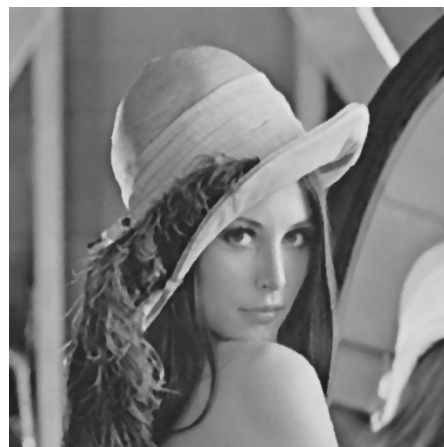Salt-and-pepper noise, probability=0.05, SNR = 0.9322155909036667

3x3 box, SNR = 9.49973257687374

5x5 box, SNR = 11.184950309020383

3x3 median, SNR = 19.2562522340141

5x5 median, SNR = 16.407742327768847

Opening-then-closing, SNR = 5.83621　　　Closing-then-opening, SNR = 4.96330