Computer Vision HW8

Original image:



Result

1. Gaussian noise (amplitude=10)





2. Gaussian noise (amplitude=30)



Noise image





Box3x3 Box



3. Salt and pepper (threshold=0.05)



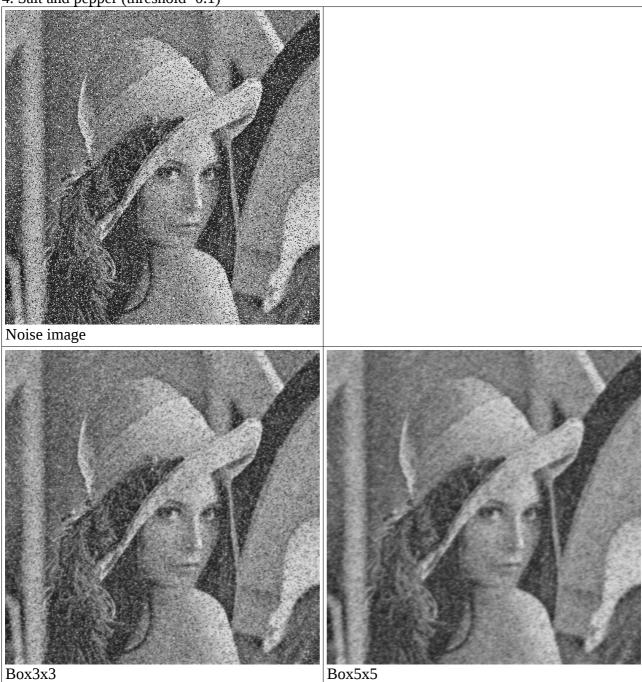
Noise image







4. Salt and pepper (threshold=0.1)





SNR:

box3x3_gaussian_10: 17.2762867291 box3x3_gaussian_30: 10.9110137866 box3x3_salt_005: 9.66786373555 box3x3_salt_01: 6.62157272081

box5x5_gaussian_10: 14.1415903798 box5x5_gaussian_30: 11.4539419903 box5x5_salt_005: 10.9275874447 box5x5_salt_01: 8.49326667276

median3x3_gaussian_10: 13.4621130862 median3x3_gaussian_30: 10.9712638207 median3x3_salt_005: 13.7795735003 median3x3_salt_01: 13.1700296384

median5x5_gaussian_10: 11.5581232993 median5x5_gaussian_30: 8.8555547601 median5x5_salt_005: 11.7450895056 median5x5_salt_01: 11.105057477

closingThenOpening_gaussian_10: 13.6062263162 closingThenOpening_gaussian_30: 7.66210917464 closingThenOpening_salt_005: 5.36897544135 closingThenOpening_salt_01: -2.59830698349

openingThenClosing_gaussian_10: 13.2552206165 openingThenClosing_gaussian_30: 11.0685478517 openingThenClosing_salt_005: 5.49791563605 openingThenClosing_salt_01: -2.28408153222