Computer Vision HW8

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Homework 8

Noise Removal

1. Gaussian noise, amplitude=10



Gaussian noise, amplitude=10, SNR = 13.596338458257506



Box_3x3, SNR = 17.67604628872084



Box_5x5, SNR = 14.83759705253326



Median_3x3, SNR = 17.57254357730527



Median_5x5, SNR = 15.95829168203381



Opening-then-closing, SNR = 12.010084648774718



Closing-then-opening, SNR = 12.331544390552356

2. Gaussian noise, amplitude=30



Gaussian noise, amplitude=30, SNR = 4.16326255161992



Box_3x3, SNR = 12.584441793740421



Box_5x5, SNR = 13.307594389338886



Median_3x3, SNR = 10.94493339504921



Median_5x5, SNR = 12.84735073053816



Opening-then-closing, SNR = 10.36761113419014

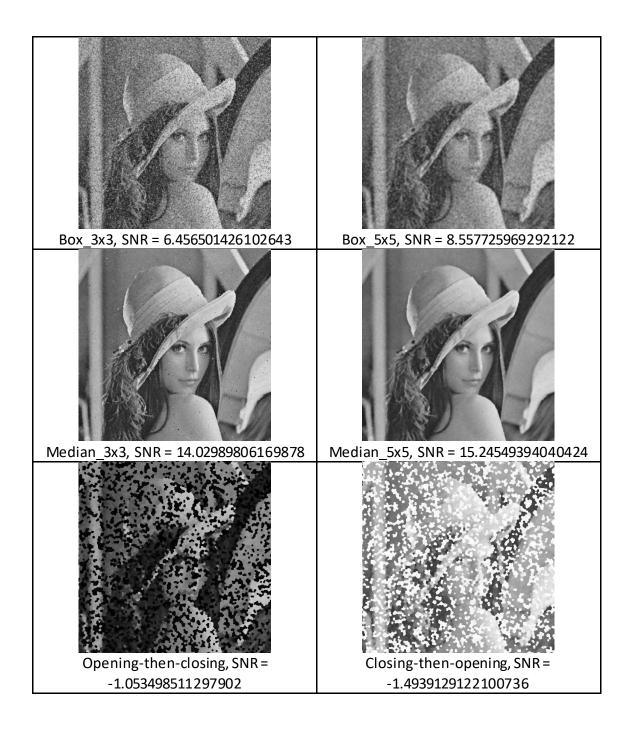


Closing-then-opening, SNR = 10.350424487457587

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



Salt-and-pepper noise, probability=0.1, SNR = -2.12303612788417



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



Salt-and-pepper noise, probability=0. 05, SNR = 0.9441073735716874



Box_3x3, SNR = 9.615778734274667



Box_5x5, SNR = 11.25197272524629



Median 3x3, SNR = 17.19169169837129



Median 5x5, SNR = 15.85023014049587



Opening-then-closing, SNR =



Closing-then-opening, SNR =