

# HW#8

R09631050 生機碩一 詹閔棋

## 1. Gaussian noise, amplitude of 10



Gaussian noise, amplitude of 10, SNR = 13.628



Box\_3x3, SNR = 17.757



Box\_5x5, SNR = 14.875



Median\_3x3, SNR = 17.678



Median\_5x5, SNR = 16.025



Opening-then-closing, SNR = 13.300



Closing-then-opening, SNR = 13.573

2. Gaussian noise, amplitude of 30



Gaussian noise, amplitude of 30, SNR = 4.165



Box\_3x3, SNR = 12.601



Box\_5x5, SNR = 13.304



Median\_3x3, SNR = 11.095



Median\_5x5, SNR = 12.886



Opening-then-closing, SNR = 11.176




Closing-then-opening, SNR = 11.155

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



Salt-and-pepper noise, probability=0.1, SNR = -2.124

 <p>Box_3x3, SNR = 6.311</p>	 <p>Box_5x5, SNR = 8.468</p>
 <p>Median_3x3, SNR = 15.180</p>	 <p>Median_5x5, SNR = 15.769</p>
 <p>Opening-then-closing, SNR = -2.205</p>	 <p>Closing-then-opening, SNR = -2.528</p>

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



Salt-and-pepper noise, probability=0.05, SNR = 0.893



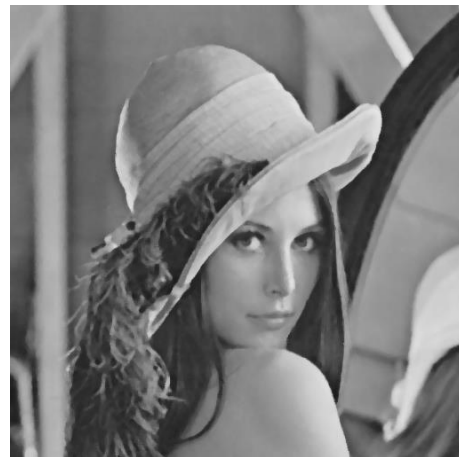
Box\_3x3, SNR = 9.422



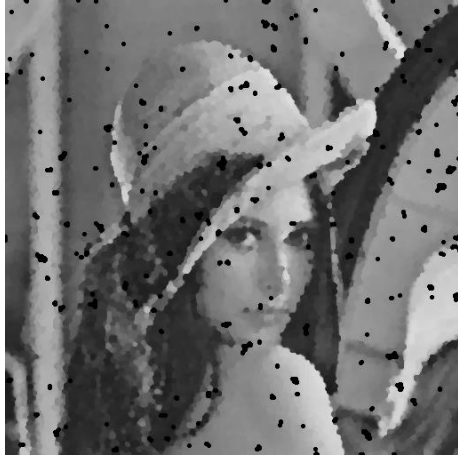
Box\_5x5, SNR = 11.113



Median\_3x3, SNR = 19.035



Median\_5x5, SNR = 16.325



Opening-then-closing, SNR = 5.127



Closing-then-opening, SNR = 5.490