**電腦視覺 HW8**

1. Gaussian Noise (amplitude 10)

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| Gaussian Noise (amplitude 10), SNR = 13.59296 | | |
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| Box\_3x3, SNR = 17.74221 | Box\_5x5, SNR = 14.85949 | Median\_3x3, SNR = 17.65058 |
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| Median\_5x5, SNR = 15.99277 | Opening-then-closing, SNR = 13.22980 | Closing-then-opening, SNR = 13.58956 |

1. Gaussian Noise (amplitude 30)

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| Gaussian Noise (amplitude 30), SNR = 4.17011 | | |
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| Box\_3x3, SNR = 12.60014 | Box\_5x5, SNR = 13.3069 | Median\_3x3, SNR = 11.12523 |
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| Median\_5x5, SNR = 12.91583 | Opening-then-closing, SNR = 11.20327 | Closing-then-opening, SNR = 11.17143 |

1. Salt-and-Pepper Noise (probability: 0.05)

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| Salt-and-Pepper (probability: 0.05), SNR = 0.86442 | | |
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| Box\_3x3, SNR = 9.36501 | Box\_5x5, SNR = 11.07608 | Median\_3x3, SNR = 19.11345 |
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| Median\_5x5, SNR = 16.32602 | Opening-then-closing, SNR = 5.520572 | Closing-then-opening, SNR = 5.26323 |

1. Salt-and-Pepper Noise (probability: 0.10)

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| Salt-and-Pepper (probability: 0.10), SNR = -2.0728 | | |
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| Box\_3x3, SNR = 6.38344 | Box\_5x5, SNR = 8.57293 | Median\_3x3, SNR = 15.02584 |
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| Median\_5x5, SNR = 15.83098 | Opening-then-closing, SNR =  -1.94157 | Closing-then-opening, SNR =  -2.52658 |