I. Median Filter

ResNet-18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | RtO | 3 | 5 | 7 | 9 |
| SNP\_0.1 | 96.00 | 99.08 | 98.46 | 97.54 | 96.31 |
| SNP\_0.2 | 91.08 | 95.39 | 95.23 | 95.08 | 94.62 |
| SNP\_0.3 | 80.92 | 88.00 | 91.08 | 91.69 | 91.08 |
| SNP\_0.4 | 67.85 | 80.00 | 80.62 | 82.46 | 83.54 |
| SNP\_0.5 | 56.77 | 61.54 | 69.39 | 74.15 | 78.15 |

VGG16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | RtO | 3 | 5 | 7 | 9 |
| SNP\_0.1 | 96.00 | 98.77 | 98.62 | 97.85 | 97.08 |
| SNP\_0.2 | 91.23 | 96.77 | 96.31 | 95.08 | 93.54 |
| SNP\_0.3 | 76.92 | 90.00 | 91.39 | 91.39 | 91.39 |
| SNP\_0.4 | 63.54 | 75.69 | 80.15 | 80.15 | 80.15 |
| SNP\_0.5 | 52.77 | 62.77 | 66.92 | 64.77 | 62.00 |

II. Noise training

ResNet-18

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Noise type | single | | | | | | mix | | | |
| Model | RtO | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 255025 | 333333 | 204040 | 404020 |
| Original | 98.62 | 75.54 | 52.00 | 45.54 | 37.23 | 27.85 | 70.62 | 72.62 | 64.31 | 81.08 |
| SNP\_0.1 | 96.00 | 97.39 | 83.69 | 75.85 | 55.69 | 36.46 | 92.46 | 94.15 | 92.0 | 96.0 |
| SNP\_0.2 | 91.08 | 95.08 | 93.21 | 88.31 | 73.08 | 51.69 | 94.31 | 94.77 | 96.46 | 95.69 |
| SNP\_0.3 | 80.92 | 89.08 | 91.85 | 90.00 | 82.77 | 62.00 | 92.15 | 92.77 | 93.85 | 93.08 |
| SNP\_0.4 | 67.85 | 83.23 | 90.00 | 88.77 | 85.08 | 76.00 | 86.62 | 89.23 | 89.38 | 89.08 |
| SNP\_0.5 | 56.77 | 72.92 | 84.62 | 83.23 | 85.39 | 80.62 | 80.00 | 82.15 | 84.0 | 82.92 |

VGG16

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Noise type | single | | | | | | mix | | | |
| Model | RtO | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 255025 | 333333 | 204040 | 404020 |
| Original | 99.54 | 99.39 | 98.92 | 99.08 | 97.39 | 80.00 | 99.23 | 99.38 | 99.23 | 99.38 |
| SNP\_0.1 | 96.00 | 98.46 | 98.15 | 97.54 | 95.08 | 87.69 | 97.54 | 98.15 | 98.31 | 97.54 |
| SNP\_0.2 | 91.23 | 96.00 | 95.69 | 95.23 | 91.69 | 87.39 | 96.46 | 95.38 | 96.62 | 95.69 |
| SNP\_0.3 | 76.92 | 88.00 | 90.77 | 91.08 | 89.85 | 86.62 | 91.38 | 92.15 | 92.31 | 91.69 |
| SNP\_0.4 | 63.54 | 75.85 | 81.39 | 83.08 | 82.46 | 79.39 | 84.31 | 84.31 | 84.77 | 83.23 |
| SNP\_0.5 | 52.77 | 62.46 | 70.31 | 74.62 | 78.15 | 75.54 | 75.54 | 72.92 | 73.38 | 73.23 |