

Gaussian 10

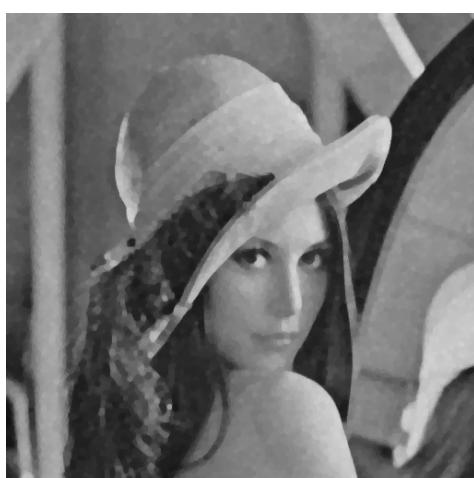
boxing 3x3

boxing 5x5



Median 3x3

Median 5x5



Opening-then-closing

Closing-then-opening



Gaussian 30



boxing 3x3



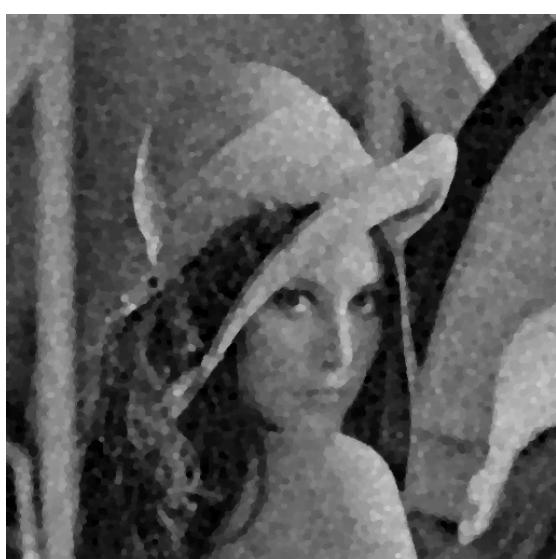
boxing 5x5



Median 3x3



Median 5x5



Opening-then-Closing



Closing-then-Opening



Salt-and-Pepper 0.05



boxing 3x3



boxing 5x5



Median 3x3



Median 5x5



Open-then-Closing



Closing-then-Opening



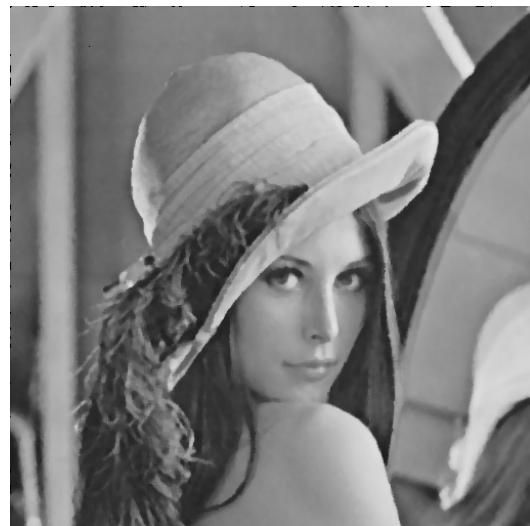
Salt-and-Pepper 0.1

Boxing 3x3

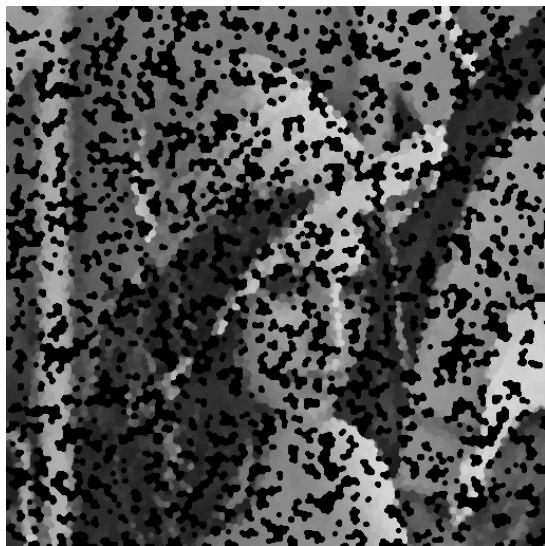
Boxing 5x5



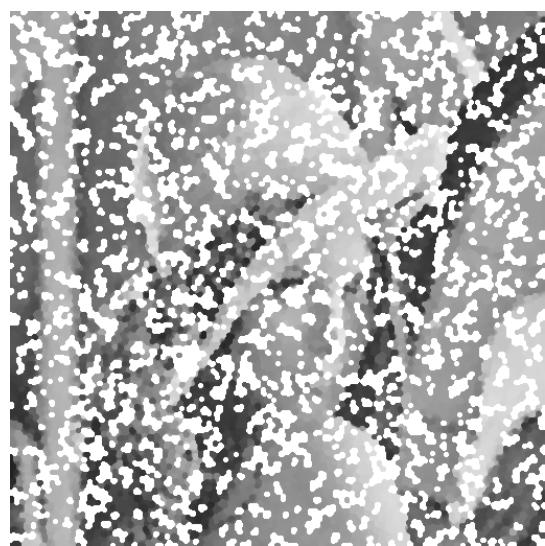
Median 3x3



Median 5x5



Open-then-Closing



Closing-then-Open

```
guassion_10: 13.601271239224692
boxing_10_3X3: 16.39025302964868
boxing_10_5x5: 13.589172072243903
median_10_3x3: 17.588182792565764
median_10_5x5: 15.812253868692746
open_close_10: 13.243266318320597
close_open_10: 13.595575153783647
=====
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```
guassion_30: 4.041995361369041
boxing_30_3x3: 12.090099809199277
boxing_30_5x5: 12.399861253569028
median_30_3x3: 10.9775406687813
median_30_5x5: 12.599321148688363
open_close_30: 11.208370877406326
close_open_30: 11.128498376857117
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```

```
salt_pepper_5: 0.9264714712589375
box_sap_5_3x3: 9.260399129500424
box_sap_5_5x5: 10.599472785846075
median_sap5_3: 18.51417542167475
median_sap5_5: 15.897013604646418
open_clo_sap5: 5.940928730253166
clo_open_sap5: 5.190024423632979
=====
```

```
salt_pepper_1: -2.077675548951818
box_sap_1_3x3: 6.252371714774986
box_sap_1_5x5: 8.213489450535763
median_sap1_3: 14.301497565012458
median_sap1_5: 14.320556048609149
open_clo_sap1: -2.010573274280759
clo_open_sap1: -2.521528207388572
=====
```