

## HW8

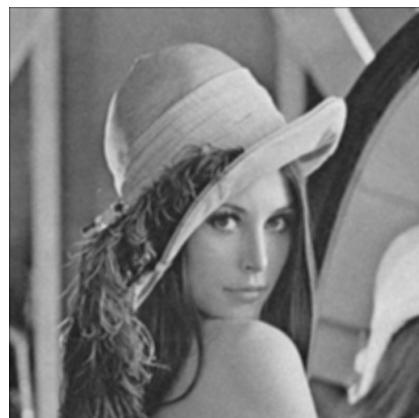
**Gaussian 10**



**boxing 3x3**



**boxing 5x5**



**median 3x3**



**median 5x5**



**Opening-then-Closing**



**Closing-then-Opening**



## HW8

**Gaussian 30**



**boxing 3x3**



**boxing 5x5**



**median 3x3**



**median 5x5**



**Opening-then-Closing**



**Closing-then-Opening**



## HW8

**Salt and Pepper 0.05**



**boxing 3x3**



**boxing 5x5**



**median 3x3**



**median 5x5**



**Opening-then-Closing**



**Closing-then-Opening**



## HW8

**Salt and Pepper 0.1**



**boxing 3x3**



**boxing 5x5**



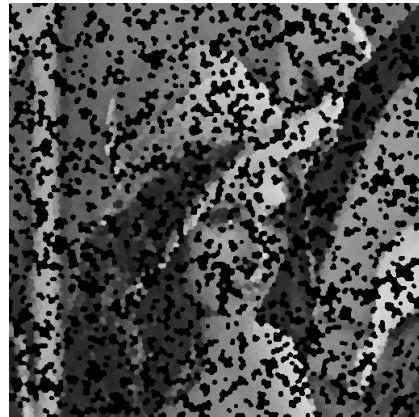
**median 3x3**



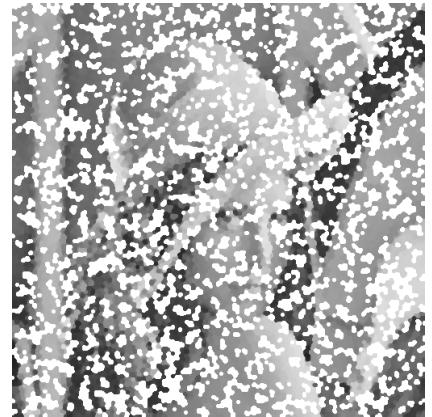
**median 5x5**



**Opening-then-Closing**



**Closing-then-Opening**



## HW8

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```
g10: 13.596709623869794
box_g10_3: 16.395162982621837
box_g10_5: 13.599511445182262
median_g10_3: 17.58613673969688
median_g10_5: 15.839542028937588
oc_g10: 13.232585074525678
co_g10: 13.576043865676521
g30: 4.047914977045849
box_g30_3: 12.105997271728555
box_g30_5: 12.39680430969006
median_g30_3: 10.994906447344327
median_g30_5: 12.589890110313242
oc_g30: 11.115283173403334
co_g30: 11.169219138473451
sap005: 0.9729446168689666
box_sap005_3: 9.268848712113737
box_sap005_5: 10.598724129478832
median_sap005_3: 18.40469182117669
median_sap005_5: 16.009824724337044
oc_sap005: 5.993180825379225
co_sap005: 5.726140623772732
sap01: -2.1092487414877477
box_sap01_3: 6.200167489779482
box_sap01_5: 8.162371312400076
median_sap01_3: 14.0067139635571
median_sap01_5: 14.260188984016155
oc_sap01: -2.1826526728411326
co_sap01: -2.5776815310336203
```