## ScatVS1000cats.csv

| MSE  | RMSE  | PSNR  | UQI   |
|--|---|---|---|
| Mean 13371.020598632813  | Mean 114.96977212467391   | Mean 6.967878060893174  | Mean 0.6306672432926523   |
| Max 28981.3837890625   | Max 170.23919580714218  | Max 9.087134028558474   | Max 0.8588824036176197  |
| Min 8023.557291666667  | Min 89.57431156122087   | Min 3.509612427553124   | Min 0.0951022896708904  |
| Median 12903.07373046875   | Median 113.59169617517342   | Median 7.023872015072908  | Median 0.6542101704293075   |
| Std 2954.4170315920014   | Std 12.374377618887483  | Std 0.9147877069710799  | Std 0.13253131021610629   |
| Var 8728579.996560892  | Var 153.12522145482345  | Var 0.8368365488254064  | Var 0.0175645481875978  |
|  |   |   |   |
| ERGAS  | SCC   | SAM   | VIF   |
| LITUAG   | 300   | SAIVI   | VIF   |
| Mean 152479.47371101208  | Mean 0.00023736267898313035   | Mean 0.6610219787717458   | Mean 0.036672728292497805   |
|  |   | -· ····   | · · ·   |
| Mean 152479.47371101208  | Mean 0.00023736267898313035   | Mean 0.6610219787717458   | Mean 0.036672728292497805   |
| Mean 152479.47371101208<br>Max 44156516.37514683   | Mean 0.00023736267898313035<br>Max 0.0441460024685274   | Mean 0.6610219787717458<br>Max 1.1821878512251498   | Mean 0.036672728292497805<br>Max 0.0556519003473424   |
| Mean 152479.47371101208<br>Max 44156516.37514683<br>Min 21673.209968221447   | Mean 0.00023736267898313035<br>Max 0.0441460024685274<br>Min -0.0425459093902307  | Mean 0.6610219787717458<br>Max 1.1821878512251498<br>Min 0.5012546107171696   | Mean 0.036672728292497805<br>Max 0.0556519003473424<br>Min 0.0273584181466942   |
| Mean 152479.47371101208<br>Max 44156516.37514683<br>Min 21673.209968221447<br>Median 50714.88515641209               | Mean 0.00023736267898313035<br>Max 0.0441460024685274<br>Min -0.0425459093902307<br>Median 0.00016357559077414998                             | Mean 0.6610219787717458<br>Max 1.1821878512251498<br>Min 0.5012546107171696<br>Median 0.6451833041363262                | Mean 0.036672728292497805<br>Max 0.0556519003473424<br>Min 0.0273584181466942<br>Median 0.035976333817987996                              |
| Mean 152479.47371101208 Max 44156516.37514683 Min 21673.209968221447 Median 50714.88515641209 Std 1732513.7010855977 | Mean 0.00023736267898313035<br>Max 0.0441460024685274<br>Min -0.0425459093902307<br>Median 0.00016357559077414998<br>Std 0.014908071155880838 | Mean 0.6610219787717458 Max 1.1821878512251498 Min 0.5012546107171696 Median 0.6451833041363262 Std 0.08986022810541683 | Mean 0.036672728292497805<br>Max 0.0556519003473424<br>Min 0.0273584181466942<br>Median 0.035976333817987996<br>Std 0.0047630031120050615 |

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#### catVS1000cats.csv

| MSE  | RMSE  | PSNR  | UQI   |
|--|---|---|---|
| Mean 13124.383495768228  | Mean 113.06775255046544   | Mean 7.179135822712862  | Mean 0.5990094348419892   |
| Max 31130.5712890625   | Max 176.43857653320177  | Max 11.266798335901392  | Max 0.8084657258909683  |
| Min 4857.362630208333  | Min 69.69478194390405   | Min 3.198932702075332   | Min 0.1113322421586523  |
| Median 12551.963216145834  | Median 112.03554307011932   | Median 7.143687241132012  | Median 0.6134272738025168   |
| Std 4321.565482587379  | Std 18.450128351616833  | Std 1.4173429191592009  | Std 0.09171931308978258   |
| Var 18675928.220290687   | Var 340.40723619113527  | Var 2.008860950490725   | Var 0.008412432393661563  |
|  |   |   |   |
| ERGAS  | SCC   | SAM   | VIF   |
| Mean 122705.28277525942  | Mean -0.0008956845729605195   | Mean 0.6497865314871084   | Mean 0.03364706383505898  |
|  |   | Wicaii 0.0437000014071004   | 1110411 0.0000 11 0000000000  |
| Max 32285471.68331485  | Max 0.1404569426124079  | Max 1.243827189184408   | Max 0.1083248202577708  |
| Max 32285471.68331485<br>Min 22845.443803503756                              | Max 0.1404569426124079<br>Min -0.1518602508520988                                   |   |   |
|  |   | Max 1.243827189184408   | Max 0.1083248202577708  |
| Min 22845.443803503756   | Min -0.1518602508520988   | Max 1.243827189184408<br>Min 0.3747259403965887   | Max 0.1083248202577708<br>Min 0.0198698920752242  |
| Min 22845.443803503756<br>Median 43256.61221700687                           | Min -0.1518602508520988<br>Median -0.0012026109067977998                            | Max 1.243827189184408<br>Min 0.3747259403965887<br>Median 0.6290059623462958                            | Max 0.1083248202577708<br>Min 0.0198698920752242<br>Median 0.029654964794293498                             |
| Min 22845.443803503756<br>Median 43256.61221700687<br>Std 1326935.4842305928 | Min -0.1518602508520988<br>Median -0.0012026109067977998<br>Std 0.04341842065451341 | Max 1.243827189184408<br>Min 0.3747259403965887<br>Median 0.6290059623462958<br>Std 0.13968383206387094 | Max 0.1083248202577708<br>Min 0.0198698920752242<br>Median 0.029654964794293498<br>Std 0.011870652924760564 |

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#### ScatVS1000Scats.csv

| MSE   | RMSE   | PSNR   | UQI  |
|---|--|--|--|
| Mean 36123.51239420573  | Mean 188.8408273673624   | Mean -3.3881990340531316   | Mean 0.07493743859713725   |
| Max 62810.68912760416   | Max 250.6206079467612  | Max 0.2945162063586662   | Max 0.5406781016764416   |
| Min 15071.477213541666  | Min 122.76594484441388   | Min -5.904261163810944   | Min 0.0030828392304045   |
| Median 35952.14827473958  | Median 189.61051571317785  | Median -3.48117389660883   | Median 0.044377358572682296  |
| Std 8136.593005502908   | Std 21.52016335548131  | Std 1.0086761552282981   | Std 0.08176980022716619  |
| Var 66204145.73719886   | Var 463.1174308466006  | Var 1.0174275861261417   | Var 0.006686300229190669   |
|   |  |  |  |
|   |  |  |  |
| ERGAS   | scc  | SAM  | VIF  |
| ERGAS<br>Mean 3420713.1272854097  | SCC<br>Mean 7.91721992494664e-05   | SAM<br>Mean 1.462347528927739  | VIF<br>Mean 0.020782000233332997   |
|   |  | · · · ·  | l · · ·  |
| Mean 3420713.1272854097   | Mean 7.91721992494664e-05  | Mean 1.462347528927739   | Mean 0.020782000233332997  |
| Mean 3420713.1272854097<br>Max 31600961.38060529  | Mean 7.91721992494664e-05<br>Max 0.0669409436809516  | Mean 1.462347528927739<br>Max 2.5331580554741198   | Mean 0.020782000233332997<br>Max 0.0448367643807021  |
| Mean 3420713.1272854097<br>Max 31600961.38060529<br>Min 62789.12464344941                             | Mean 7.91721992494664e-05<br>Max 0.0669409436809516<br>Min -0.0583548129669952                               | Mean 1.462347528927739<br>Max 2.5331580554741198<br>Min 0.6414659691232037                     | Mean 0.020782000233332997<br>Max 0.0448367643807021<br>Min 4.4655867264228415e-05                                |
| Mean 3420713.1272854097<br>Max 31600961.38060529<br>Min 62789.12464344941<br>Median 533401.9258815458 | Mean 7.91721992494664e-05<br>Max 0.0669409436809516<br>Min -0.0583548129669952<br>Median -0.0005287839730698 | Mean 1.462347528927739 Max 2.5331580554741198 Min 0.6414659691232037 Median 1.4550520999052658 | Mean 0.020782000233332997<br>Max 0.0448367643807021<br>Min 4.4655867264228415e-05<br>Median 0.028464953450404402 |

### catVS1000Scats.csv

| MSE                      | RMSE                        | PSNR                      | UQI                        |
|--------------------------|-----------------------------|---------------------------|----------------------------|
| Mean 36122.454325195315  | Mean 188.83794487250944     | Mean -3.3880487989117882  | Mean 0.12131872105085158   |
| Max 63186.45930989584    | Max 251.36916937026277      | Max 0.3018761530375237    | Max 0.5931655174591092     |
| Min 15045.957356770834   | Min 122.6619637734976       | Min -5.930165781892703    | Min 0.0085896886409796     |
| Median 35830.453125      | Median 189.2893369030415    | Median -3.466448570857861 | Median 0.07902965862966976 |
| Std 8135.661101958758    | Std 21.520874739934953      | Std 1.008886515566959     | Std 0.11399038487947065    |
| Var 66188981.56592479    | Var 463.1480495719703       | Var 1.01785200129284      | Var 0.01299380784496985    |
|                          |                             |                           |                            |
| ERGAS                    | scc                         | SAM                       | VIF                        |
| Mean 2809711.374836338   | Mean -8.051141309770321e-05 | Mean 1.4623738021124322   | Mean 0.01470537714786757   |
| Max 26082414.439826503   | Max 0.0436274682155169      | Max 2.5446528062270617    | Max 0.0299735797821163     |
| Min 50562.93756624188    | Min -0.0447349092024515     | Min 0.6417755597766622    | Min 1.5167094737807806e-05 |
| Median 436011.4997135879 | Median -0.0009483847519803  | Median 1.4537977546004652 | Median 0.0204744390795513  |
| Std 4410733.213857626    | Std 0.013431710019993038    | Std 0.2943661343493423    | Std 0.009448854910029988   |
| Var 19454567483826.816   | Var 0.00018041083406118138  | Var 0.08665142105177503   | Var 8.928085911079783e-05  |
|                          |                             |                           |                            |

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## SdogVS1000Sdogs.csv

| MSE                      | RMSE                        | PSNR                      | UQI                        |
|--------------------------|-----------------------------|---------------------------|----------------------------|
| Mean 18359.360950520837  | Mean 134.07154791614076     | Mean -0.37376521456694695 | Mean 0.12542595923948416   |
| Max 36897.8525390625     | Max 192.0881374241067       | Max 5.031872566959224     | Max 0.6908203186414957     |
| Min 5063.142903645833    | Min 71.15576507666707       | Min -3.593936489741289    | Min 0.0076882073805813     |
| Median 18108.59505208333 | Median 134.56817621406668   | Median -0.502772670643559 | Median 0.0738034722843148  |
| Std 5251.246364595219    | Std 19.61034307313997       | Std 1.3161292169131438    | Std 0.12460464945263983    |
| Var 27575588.381674506   | Var 384.5655554462487       | Var 1.7321961156124048    | Var 0.015526318665215255   |
|                          |                             |                           |                            |
| ERGAS                    | scc                         | SAM                       | VIF                        |
| Mean 2310953.1547728195  | Mean 0.00048566828264962297 | Mean 1.5028595804662264   | Mean 0.016584601527329754  |
| Max 23282653.541984383   | Max 0.0746777554508122      | Max 2.3568877278937097    | Max 0.0406970814748332     |
| Min 44717.5047418235     | Min -0.0688366401089479     | Min 0.6708245266443172    | Min 3.624643178852208e-05  |
| Median 431233.7144063846 | Median 0.0004678310874649   | Median 1.4885116791110327 | Median 0.0243126550103255  |
| Std 3374490.613238244    | Std 0.020579097026794838    | Std 0.28145182066851143   | Std 0.012163274692694062   |
|                          |                             |                           |                            |
| Var 11387186898833.018   | Var 0.00042349923443823616  | Var 0.07921512735761993   | Var 0.00014794525124993182 |
| Var 11387186898833.018   | Var 0.00042349923443823616  | Var 0.07921512735761993   | Var 0.00014794525124993182 |

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## dogVS1000Sdogs.csv

| MSE                       | RMSE                          | PSNR                       | UQI                        |
|---------------------------|-------------------------------|----------------------------|----------------------------|
| Mean 18364.608819661462   | Mean 134.0874341521061        | Mean -0.37455409040372273  | Mean 0.1208489453016855    |
| Max 37034.2919921875      | Max 192.44295776200156        | Max 5.01612535171152       | Max 0.6441186503484891     |
| Min 5081.534830729167     | Min 71.28488500887946         | Min -3.6099660447477433    | Min 0.008342959020062      |
| Median 18143.947916666664 | Median 134.69947233360776     | Median -0.5112434529593962 | Median 0.07254034982425965 |
| Std 5258.829781676293     | Std 19.635538610962694        | Std 1.317825945502354      | Std 0.11746002907694396    |
| Var 27655290.672645535    | Var 385.5543765426068         | Var 1.7366652226391734     | Var 0.01379685843075652    |
|                           |                               |                            |                            |
| ERGAS                     | scc                           | SAM                        | VIF                        |
| Mean 2452687.5492500183   | Mean -0.0003287369916285719   | Mean 1.5031717163664366    | Mean 0.016886054283062703  |
| Max 22652051.60335807     | Max 0.047720681020281         | Max 2.347620212743777      | Max 0.0374600525650463     |
| Min 47664.694589421895    | Min -0.0601269821765231       | Min 0.6723780065168611     | Min 4.1174579383103576e-05 |
| Median 452343.99151235574 | Median 2.3409959838802175e-05 | Median 1.4902656919703423  | Median 0.0250016454669754  |
| Std 3576069.208881573     | Std 0.01601107601617351       | Std 0.2817964103555762     | Std 0.01227347326420643    |
| Var 12788270986710.877    | Var 0.0002563545551956866     | Var 0.07940921688928829    | Var 0.00015063814596719003 |
|                           |                               |                            |                            |

### noiseVS1000Scats.csv

| MSE   | RMSE  | PSNR  | UQI  |
|---|---|---|--|
| Mean 8896.486487304688  | Mean 93.2449527442881   | Mean 2.7891437380290944   | Mean 0.1533722154247591  |
| Max 18582.545247395832  | Max 136.31780972197225  | Max 7.95290313566958  | Max 0.5107847650509303   |
| Min 2584.146484375  | Min 50.834500925798416  | Min -0.6149775704567283   | Min 0.0165508608626289   |
| Median 8868.4580078125  | Median 94.17249054412335  | Median 2.597593311189978  | Median 0.12118857730860244   |
| Std 2640.8901819431558  | Std 14.215039302180271  | Std 1.3745025680115903  | Std 0.11283510535359616  |
| Var 6974300.9530837545  | Var 202.06734236252976  | Var 1.8892573094704563  | Var 0.012731761000157145   |
|   |   |   |  |
| ERGAS   | scc   | SAM   | VIF  |
|   |   |   |  |
| Mean 1675577.5443954668   | Mean -0.00031314200563303124  | Mean 1.492072190435505  | Mean 0.012728002792139075  |
| Mean 1675577.5443954668<br>Max 16328625.818328433   | Mean -0.00031314200563303124<br>Max 0.0648858244091466  | Mean 1.492072190435505<br>Max 2.227108457689442   | Mean 0.012728002792139075<br>Max 0.0291403744898213  |
|   |   |   |  |
| Max 16328625.818328433  | Max 0.0648858244091466  | Max 2.227108457689442   | Max 0.0291403744898213   |
| Max 16328625.818328433<br>Min 40091.76161359117   | Max 0.0648858244091466<br>Min -0.0699364162353179   | Max 2.227108457689442<br>Min 0.9547427939770704   | Max 0.0291403744898213<br>Min 5.474541468729479e-05  |
| Max 16328625.818328433<br>Min 40091.76161359117<br>Median 258220.12836980273                          | Max 0.0648858244091466<br>Min -0.0699364162353179<br>Median -0.000335988241471                            | Max 2.227108457689442<br>Min 0.9547427939770704<br>Median 1.483631527631898                           | Max 0.0291403744898213<br>Min 5.474541468729479e-05<br>Median 0.0170859364828134                             |
| Max 16328625.818328433<br>Min 40091.76161359117<br>Median 258220.12836980273<br>Std 2610899.288379914 | Max 0.0648858244091466<br>Min -0.0699364162353179<br>Median -0.000335988241471<br>Std 0.02072968428287383 | Max 2.227108457689442<br>Min 0.9547427939770704<br>Median 1.483631527631898<br>Std 0.2139074427448281 | Max 0.0291403744898213<br>Min 5.474541468729479e-05<br>Median 0.0170859364828134<br>Std 0.008244113236984724 |

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## noiseVS1000Sdogs.csv

| MSE                       | RMSE                         | PSNR                      | UQI                         |
|---------------------------|------------------------------|---------------------------|-----------------------------|
| Mean 9282.3459296875      | Mean 95.40076606069005       | Mean 2.574302277905263    | Mean 0.14191092050241338    |
| Max 19368.400716145832    | Max 139.1704017244537        | Max 7.711731143936101     | Max 0.5279614444498675      |
| Min 2731.708333333333     | Min 52.265747228307504       | Min -0.7948631980732014   | Min 0.0180287743689327      |
| Median 9117.896809895832  | Median 95.48767638398844     | Median 2.4771281371294993 | Median 0.1074939461445778   |
| Std 2574.6083247289066    | Std 13.461834410907613       | Std 1.2593180025187911    | Std 0.10427137059106725     |
| Var 6628608.025763387     | Var 181.22098570669633       | Var 1.585881831467918     | Var 0.010872518724939686    |
|                           |                              |                           |                             |
| ERGAS                     | scc                          | SAM                       | VIF                         |
| Mean 1616839.7520438947   | Mean 0.0005382448169268593   | Mean 1.5214152306735194   | Mean 0.011554879295871455   |
| Max 15958564.968428236    | Max 0.0612030156946113       | Max 2.135814339453962     | Max 0.0274672675647227      |
| Min 41978.518736983846    | Min -0.0583865484972773      | Min 0.9464222078104112    | Min 4.7970637062930285e-05  |
| Median 294034.73700783553 | Median 8.832233575131809e-05 | Median 1.512603216501605  | Median 0.016482420300493898 |
| Std 2345429.5283392575    | Std 0.019439835495632215     | Std 0.2047794158183998    | Std 0.008293331012758602    |
| Var 5501039672405.712     | Var 0.0003779072040972422    | Var 0.04193460914292509   | Var 6.877933928718362e-05   |
|                           |                              |                           |                             |
|                           |                              |                           |                             |

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## dogVS1000Scats.csv

| MSE                       | RMSE                         | PSNR                        | UQI                         |
|---------------------------|------------------------------|-----------------------------|-----------------------------|
| Mean 17537.572736653645   | Mean 130.838075064039        | Mean -0.14679388722630035   | Mean 0.1318824373117261     |
| Max 34973.8349609375      | Max 187.0129272562127        | Max 5.283743154534927       | Max 0.7075832286006513      |
| Min 4777.856770833333     | Min 69.1220425829079         | Min -3.361358143909559      | Min 0.0074480933096524      |
| Median 17340.3740234375   | Median 131.68285388937926    | Median -0.31451018099492234 | Median 0.08185664099313125  |
| Std 5342.502081167604     | Std 20.479019518301428       | Std 1.4170427402630337      | Std 0.12966024618379401     |
| Var 28542328.48728018     | Var 419.3902404309708        | Var 2.0080101277321676      | Var 0.016811779440442067    |
|                           |                              |                             |                             |
| ERGAS                     | scc                          | SAM                         | VIF                         |
| Mean 2552570.3091699122   | Mean -0.00023925810431845777 | Mean 1.4619393238729739     | Mean 0.01852383220930922    |
| Max 21988366.855037466    | Max 0.0519281155459714       | Max 2.537797196718406       | Max 0.0379885020068781      |
| Min 38612.21323006234     | Min -0.0526058641941204      | Min 0.6516128414992144      | Min 3.5896872688135965e-05  |
| Median 391514.70517690125 | Median 2.329095204290331e-05 | Median 1.4541608115914546   | Median 0.025635060716156552 |
| Std 3996872.672103637     | Std 0.016320635354569128     | Std 0.29483302991970933     | Std 0.01202022500959722     |
| Var 15974991157008.865    | Var 0.00026636313837681173   | Var 0.08692651553163622     | Var 0.00014448580928134647  |
|                           |                              |                             |                             |
|                           |                              |                             |                             |

### SdogVS1000Scats.csv

| MSE                       | RMSE                        | PSNR                       | UQI                        |
|---------------------------|-----------------------------|----------------------------|----------------------------|
| Mean 17542.249198893227   | Mean 130.85868323216596     | Mean -0.14835349596338068  | Mean 0.13666017803505098   |
| Max 35245.76009114584     | Max 187.73854183716736      | Max 5.338987096465145      | Max 0.7569406481215095     |
| Min 4717.465494791667     | Min 68.68380809762711       | Min -3.394994388546821     | Min 0.0079830112575632     |
| Median 17403.69873046875  | Median 131.9230769151061    | Median -0.3303408950979626 | Median 0.08230496243270066 |
| Std 5337.4800783967075    | Std 20.461497856496436      | Std 1.4159424129150904     | Std 0.13779547595705763    |
| Var 28488693.587281726    | Var 418.6728945314083       | Var 2.0048929166918086     | Var 0.018987593194232044   |
|                           |                             |                            |                            |
| ERGAS                     | scc                         | SAM                        | VIF                        |
| Mean 2395703.442144807    | Mean -0.0008277611777710496 | Mean 1.4621061453595212    | Mean 0.018320765346678924  |
| Max 21743076.79285112     | Max 0.0739152542466186      | Max 2.5400229631945552     | Max 0.0407230934071177     |
| Min 36916.67307173348     | Min -0.0609538123600897     | Min 0.6467653691730261     | Min 6.785225209344424e-05  |
| Median 368415.17042321805 | Median -0.00135856218362205 | Median 1.4524144439242805  | Median 0.02490809663401575 |
| Std 3762670.426283013     | Std 0.020802787426126887    | Std 0.29468525380531696    | Std 0.01207451893614393    |
| Var 14157688736824.793    | Var 0.00043275596469662293  | Var 0.08683939881030407    | Var 0.00014579400753929835 |
|                           |                             |                            |                            |
|                           |                             |                            |                            |

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# catVS1000Sdogs.csv

| MSE                      | RMSE                       | PSNR                       | UQI                        |
|--------------------------|----------------------------|----------------------------|----------------------------|
| Mean 37327.15794205729   | Mean 192.07858408101296    | Mean -3.5415668757080057   | Mean 0.11132264708472737   |
| Max 63777.4853515625     | Max 252.54204670027227     | Max -0.0230125451591857    | Max 0.5474415296075779     |
| Min 16214.691731770834   | Min 127.33692210734024     | Min -5.970599497672136     | Min 0.007392079296766      |
| Median 36896.15055338541 | Median 192.0837070649374   | Median -3.5937361503852365 | Median 0.06913190620162096 |
| Std 8011.845214311393    | Std 20.81847468905679      | Std 0.9562535617065664     | Std 0.10380936007230286    |
| Var 64189663.73808437    | Var 433.4088883788981      | Var 0.9144208742764939     | Var 0.010776383238621026   |
|                          |                            |                            |                            |
| ERGAS                    | scc                        | SAM                        | VIF                        |
| Mean 2736159.6312964926  | Mean 0.0006436652184265877 | Mean 1.5027562275192325    | Mean 0.01346110440929165   |
| Max 28427341.35116017    | Max 0.03790217524047       | Max 2.360284877976691      | Max 0.0279801594542123     |
| Min 61988.81154475499    | Min -0.0432171674804508    | Min 0.6697206039777006     | Min 1.6419543691589678e-05 |
| Median 512886.4836490953 | Median 0.0006997967941094  | Median 1.488965307101273   | Median 0.0200093832747505  |
| Std 4016637.821282796    | Std 0.01332606852959663    | Std 0.2809261986502918     | Std 0.009675074180589441   |
| Var 16133379387359.406   | Var 0.00017758410245550572 | Var 0.07891952908810321    | Var 9.360706039990845e-05  |
|                          |                            |                            |                            |

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# ScatVS1000Sdogs.csv

| MSE   | RMSE   | PSNR  | UQI   |
|---|--|---|---|
| Mean 37326.39403710938  | Mean 192.07269305770052  | Mean -3.541102738339179   | Mean 0.06869257952155942  |
| Max 63735.6474609375  | Max 252.45919959656356   | Max -0.0979042827279809   | Max 0.4264058719487316  |
| Min 16496.730143229168  | Min 128.43959725578856   | Min -5.9677496005228505   | Min 0.0036935977512229  |
| Median 36899.01725260417  | Median 192.09116824760798  | Median -3.5940734979020705  | Median 0.03813131008763395  |
| Std 8023.782291458237   | Std 20.854484606432663   | Std 0.9581351454924021  | Std 0.07299465009591136   |
| Var 64381082.260718785  | Var 434.9095281999369  | Var 0.9180229570277465  | Var 0.005328218942624532  |
|   |  |   |   |
|   |  |   |   |
| ERGAS   | SCC  | SAM   | VIF   |
| ERGAS<br>Mean 3298174.225635354   | SCC<br>Mean 0.0012042300496468376  | SAM<br>Mean 1.5027432802835046  | VIF<br>Mean 0.0188416527057601  |
|   |  |   | 1   |
| Mean 3298174.225635354  | Mean 0.0012042300496468376   | Mean 1.5027432802835046   | Mean 0.0188416527057601   |
| Mean 3298174.225635354<br>Max 34352030.91443657   | Mean 0.0012042300496468376<br>Max 0.0774182679510805   | Mean 1.5027432802835046<br>Max 2.35676142760388   | Mean 0.0188416527057601<br>Max 0.0446088852793031   |
| Mean 3298174.225635354<br>Max 34352030.91443657<br>Min 80833.62635711607  | Mean 0.0012042300496468376<br>Max 0.0774182679510805<br>Min -0.058520686769031   | Mean 1.5027432802835046<br>Max 2.35676142760388<br>Min 0.685024477739009  | Mean 0.0188416527057601<br>Max 0.0446088852793031<br>Min 0.0001031097157513   |
| Mean 3298174.225635354<br>Max 34352030.91443657<br>Min 80833.62635711607<br>Median 619553.2140410712              | Mean 0.0012042300496468376<br>Max 0.0774182679510805<br>Min -0.058520686769031<br>Median 0.000753649502799                             | Mean 1.5027432802835046<br>Max 2.35676142760388<br>Min 0.685024477739009<br>Median 1.4890541792950183               | Mean 0.0188416527057601<br>Max 0.0446088852793031<br>Min 0.0001031097157513<br>Median 0.02769510768370775                             |
| Mean 3298174.225635354 Max 34352030.91443657 Min 80833.62635711607 Median 619553.2140410712 Std 4832460.074354859 | Mean 0.0012042300496468376<br>Max 0.0774182679510805<br>Min -0.058520686769031<br>Median 0.000753649502799<br>Std 0.021073305253375838 | Mean 1.5027432802835046 Max 2.35676142760388 Min 0.685024477739009 Median 1.4890541792950183 Std 0.2811170396591809 | Mean 0.0188416527057601<br>Max 0.0446088852793031<br>Min 0.0001031097157513<br>Median 0.02769510768370775<br>Std 0.013806966742063385 |

### catVS1000dogs.csv

|                           |                               | -                         | -                          |
|---------------------------|-------------------------------|---------------------------|----------------------------|
| MSE                       | RMSE                          | PSNR                      | UQI                        |
| Mean 13296.315988932292   | Mean 114.03222263742215       | Mean 7.089397883999167    | Mean 0.6000088302670236    |
| Max 28865.739908854168    | Max 169.8992051448569         | Max 11.57260404207965     | Max 0.7867000057704381     |
| Min 4527.0986328125       | Min 67.2837174419822          | Min 3.5269766672028475    | Min 0.2851507288888479     |
| Median 12854.76318359375  | Median 113.37884803276384     | Median 7.040162807488738  | Median 0.6070385593163392  |
| Std 3973.631588396787     | Std 17.124878123724994        | Std 1.3203541829258243    | Std 0.07903879410440526    |
| Var 15789748.000304772    | Var 293.2614507524349         | Var 1.743335168369721     | Var 0.006247130973478567   |
|                           |                               |                           |                            |
| ERGAS                     | scc                           | SAM                       | VIF                        |
| Mean 71060.99545628132    | Mean -0.0009484641435980062   | Mean 0.6602805252095985   | Mean 0.031988679760813446  |
| Max 8440343.046965718     | Max 0.1267404134391735        | Max 1.205849052879254     | Max 0.1150827661117542     |
| Min 23907.68619307426     | Min -0.1361851131850417       | Min 0.3723749620229958    | Min 0.0201398646179415     |
| Median 40591.096310159206 | Median -0.0014992588808176001 | Median 0.6457801608477669 | Median 0.02828998158254915 |
| Std 404616.6373340012     | Std 0.04274970094268028       | Std 0.13113365658113627   | Std 0.01110593968314493    |
| Var 163714623207.47467    | Var 0.0018275369306885996     | Var 0.017196035888339383  | Var 0.0001233418962456533  |
|                           |                               |                           |                            |
| I .                       |                               |                           |                            |

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# ScatVS1000dogs.csv

| MSE                       | RMSE                          | PSNR                     | UQI                        |
|---------------------------|-------------------------------|--------------------------|----------------------------|
| Mean 12939.276724609375   | Mean 113.19285569847628       | Mean 7.096262335513901   | Mean 0.660587376925813     |
| Max 26529.005533854168    | Max 162.87727138509587        | Max 9.117907784158277    | Max 0.8546088579670674     |
| Min 7966.903971354167     | Min 89.25751492929975         | Min 3.893593905408548    | Min 0.2119157999048226     |
| Median 12601.238118489582 | Median 112.25523648304349     | Median 7.126671426497213 | Median 0.6801983259222061  |
| Std 2631.7838033071985    | Std 11.259703564377636        | Std 0.8483553768681577   | Std 0.11897686437194836    |
| Var 6926285.987350103     | Var 126.78092435765844        | Var 0.7197068454611139   | Var 0.014155494255780996   |
|                           |                               |                          |                            |
| ERGAS                     | scc                           | SAM                      | VIF                        |
| Mean 85547.91034542207    | Mean -1.5396099542034913e-05  | Mean 0.6541171152347488  | Mean 0.03585420243767514   |
| Max 14172011.936799098    | Max 0.0652102136732903        | Max 1.0542812257502014   | Max 0.0560327825256736     |
| Min 21747.964399765115    | Min -0.0463207751798134       | Min 0.5094688783148863   | Min 0.0274749331382721     |
| Median 46877.80851451403  | Median 0.00010888021337464253 | Median 0.644463012989916 | Median 0.03527158992923995 |
| Std 552834.5878186363     | Std 0.014970221129634682      | Std 0.08080079592674079  | Std 0.004338185005795491   |
| Var 305626081488.6015     | Var 0.00022410752067016071    | Var 0.00652876862239481  | Var 1.8819849144508825e-05 |
|                           |                               |                          |                            |
|                           |                               |                          |                            |

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## noiseVS1000cats.csv

| MSE  | RMSE  | PSNR  | UQI  |
|--|---|---|--|
| Mean 12328.216840169269  | Mean 107.91424914555976   | Mean 7.717755985737278  | Mean 0.29154761438505034   |
| Max 39210.07389322917  | Max 198.01533752017585  | Max 13.737648890471345  | Max 0.5385091644925807   |
| Min 2749.890950520833  | Min 52.43940265221214   | Min 2.196827001185468   | Min 0.1010093691158702   |
| Median 10970.689453125   | Median 104.7410589995161  | Median 7.728464402052593  | Median 0.29011741490359694   |
| Std 6177.381916967553  | Std 26.142208908313997  | Std 2.080257404222722   | Std 0.0761415277510241   |
| Var 38160047.348077714   | Var 683.4150866059317   | Var 4.3274708678234575  | Var 0.0057975322482599735  |
|  |   |   |  |
| ERGAS  | scc   | SAM   | VIF  |
| Mean 70653.6374227846  | Mean -7.410349912666875e-05   | Mean 0.9464346412197902   | Mean 0.022426573752932007  |
|  |   |   |  |
| Max 14116704.830636524   | Max 0.0590537353969338  | Max 1.2940125456524072  | Max 0.036625367160545  |
| Max 14116704.830636524<br>Min 35076.1879061236                             | Max 0.0590537353969338<br>Min -0.0551688888919408                                 | Max 1.2940125456524072<br>Min 0.8647242568084583                                | Max 0.036625367160545<br>Min 0.0163541015835183                                    |
|  |   |   |  |
| Min 35076.1879061236   | Min -0.0551688888919408   | Min 0.8647242568084583  | Min 0.0163541015835183   |
| Min 35076.1879061236<br>Median 40024.514009740335                          | Min -0.0551688888919408<br>Median -6.138767038773935e-06                          | Min 0.8647242568084583<br>Median 0.9358379557976769                             | Min 0.0163541015835183<br>Median 0.022086209774929103                              |
| Min 35076.1879061236<br>Median 40024.514009740335<br>Std 544029.8673374065 | Min -0.0551688888919408<br>Median -6.138767038773935e-06<br>Std 0.015818296970872 | Min 0.8647242568084583<br>Median 0.9358379557976769<br>Std 0.051931723778180325 | Min 0.0163541015835183<br>Median 0.022086209774929103<br>Std 0.0030562732349271467 |

### SdogVS1000dogs.csv

|                           | -                              |                           |                            |
|---------------------------|--------------------------------|---------------------------|----------------------------|
| MSE                       | RMSE                           | PSNR                      | UQI                        |
| Mean 7353.11125390625     | Mean 84.7604969402804          | Mean 9.663143334062493    | Mean 0.691770232724903     |
| Max 21254.122721354168    | Max 145.7879375029161          | Max 12.662946619615678    | Max 0.8359634368986034     |
| Min 3521.9703776041665    | Min 59.34619092750744          | Min 4.856371770005641     | Min 0.3565512778471795     |
| Median 6885.731119791667  | Median 82.98030538177812       | Median 9.751303057502154  | Median 0.7006216442196201  |
| Std 2381.262452502566     | Std 12.997628656553463         | Std 1.2783823739680469    | Std 0.07728993995824357    |
| Var 5670410.867698533     | Var 168.93835069365977         | Var 1.6342614940721791    | Var 0.005973734818748896   |
|                           |                                |                           |                            |
| ERGAS                     | scc                            | SAM                       | VIF                        |
| Mean 56158.14821305513    | Mean -0.00037574741830269815   | Mean 0.6527249466901568   | Mean 0.031654484710272775  |
| Max 8354008.219385041     | Max 0.0541182711304567         | Max 1.0503963580331634    | Max 0.052287570490944      |
| Min 22058.48638547677     | Min -0.0579980193003325        | Min 0.5026257545954808    | Min 0.0241069421728516     |
| Median 31958.220754427868 | Median -0.00028330656374190005 | Median 0.6434890419672565 | Median 0.0310870313536235  |
| Std 335700.53987675754    | Std 0.015116177703092721       | Std 0.08056108277646967   | Std 0.0040202927893846765  |
|                           |                                |                           | I .                        |
| Var 112694852473.5465     | Var 0.00022849882835147752     | Var 0.0064900880581171974 | Var 1.6162754112378424e-05 |
| Var 112694852473.5465     | Var 0.00022849882835147752     | Var 0.0064900880581171974 | Var 1.6162754112378424e-05 |

# dogVS1000dogs.csv

| MSE                       | RMSE                         | PSNR                      | UQI                        |
|---------------------------|------------------------------|---------------------------|----------------------------|
| Mean 6794.736659505209    | Mean 80.69563116363312       | Mean 10.171280130195711   | Mean 0.7126429761822212    |
| Max 23442.823893229168    | Max 153.11049569911648       | Max 14.753620275450164    | Max 0.8810276193674834     |
| Min 2176.2978515625       | Min 46.65080761961684        | Min 4.430704358009288     | Min 0.3484550479637487     |
| Median 6100.69677734375   | Median 78.10695701686936     | Median 10.277009271672513 | Median 0.7251543155054527  |
| Std 3010.8288695210986    | Std 16.82958720865444        | Std 1.7385569718258032    | Std 0.0879097049036163     |
| Var 9065090.481541695     | Var 283.23500561370514       | Var 3.022580344284106     | Var 0.0077281162162408995  |
|                           |                              |                           |                            |
| ERGAS                     | SCC                          | SAM                       | VIF                        |
| Mean 47465.987096707584   | Mean 0.0021447762816233606   | Mean 0.6135194440867023   | Mean 0.04043715426923686   |
| Max 5781896.107195009     | Max 0.122327217242996        | Max 0.9882155223420952    | Max 0.1063839096269349     |
| Min 16847.609455383248    | Min -0.121994096852214       | Min 0.3746594652968349    | Min 0.0242404072464742     |
| Median 29450.462788955003 | Median 0.0030651771876784497 | Median 0.6057470780689791 | Median 0.0361257273821379  |
| Std 236149.53401616044    | Std 0.03840868413667601      | Std 0.10003484476457711   | Std 0.012776480766208367   |
| Var 55766602416.04971     | Var 0.0014752270171109472    | Var 0.01000697016707304   | Var 0.00016323846076929236 |
|                           |                              |                           |                            |
|                           |                              |                           |                            |

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## dogVS1000cats.csv

| MSE                       | RMSE                          | PSNR                      | UQI                         |
|---------------------------|-------------------------------|---------------------------|-----------------------------|
| Mean 7241.219139648438    | Mean 83.00834616583103        | Mean 9.954498746665399    | Mean 0.6948272132329095     |
| Max 22172.891276041668    | Max 148.90564554791624        | Max 14.829722962202364    | Max 0.8908608623175504      |
| Min 2138.494140625        | Min 46.2438551661191          | Min 4.672580334115378     | Min 0.1343620446471005      |
| Median 6321.226236979167  | Median 79.5061260830158       | Median 10.122793225796357 | Median 0.7161823342138369   |
| Std 3475.878690255687     | Std 18.73992505996909         | Std 1.8688514865731636    | Std 0.10390475635519109     |
| Var 12081732.66937359     | Var 351.1847912532574         | Var 3.492605878866723     | Var 0.010796198393231623    |
|                           |                               |                           |                             |
| ERGAS                     | scc                           | SAM                       | VIF                         |
| Mean 100675.13448418885   | Mean -0.0014372729851769852   | Mean 0.643328287812722    | Mean 0.04051968277623235    |
| Max 35135596.31212734     | Max 0.1101685048841264        | Max 1.238003157541227     | Max 0.130166624520868       |
| Min 17722.251338627655    | Min -0.1234165157480631       | Min 0.4067752063855688    | Min 0.0242742328478692      |
| Median 31702.822336227342 | Median -0.0027165166678259998 | Median 0.6305612168801318 | Median 0.036679836659746654 |
| Std 1265848.2856683426    | Std 0.03655874033789857       | Std 0.1092198352859893    | Std 0.012811684263812417    |
| Var 1602371882329.482     | Var 0.0013365414950938918     | Var 0.011928972419898634  | Var 0.0001641392536756187   |
|                           |                               |                           |                             |
|                           |                               |                           |                             |

### SdogVS1000cats.csv

| MSE                    | RMSE                          | PSNR                      | UQI                        |
|------------------------|-------------------------------|---------------------------|----------------------------|
| Mean 7341.146492513021 | Mean 84.47516248398632        | Mean 9.711230701522153    | Mean 0.6886515333444386    |
| Max 19930.038736979168 | Max 141.1737891287868         | Max 12.743891602802549    | Max 0.8469492830585064     |
| Min 3456.934895833333  | Min 58.79570473966048         | Min 5.135722180510179     | Min 0.1351184362569438     |
| Median 6635.36328125   | Median 81.45773917888276      | Median 9.912156569068829  | Median 0.7107194224492652  |
| Std 2670.4036350453443 | Std 14.328248829904616        | Std 1.389720921442927     | Std 0.09466025390675667    |
| Var 7131055.57406339   | Var 205.29871453166302        | Var 1.9313242394961778    | Var 0.008960563669691642   |
|                        |                               |                           |                            |
| ERGAS                  | scc                           | SAM                       | VIF                        |
| Mean 98354.42987692979 | Mean -0.00022157718981367632  | Mean 0.659775475182146    | Mean 0.03221186360213167   |
| Max 28025734.082823507 | Max 0.0488000110920652        | Max 1.2063556065562746    | Max 0.0528869534591924     |
| Min 22370.128095455893 | Min -0.0513444008104041       | Min 0.5014409032867492    | Min 0.0237577195528272     |
| Median 33271.200632018 | Median -9.646501030738272e-05 | Median 0.6437878771455466 | Median 0.0315897036892593  |
| Std 1107351.2271872566 | Std 0.01520150127582206       | Std 0.09028653869870595   | Std 0.004303914705261571   |
| Var 1226226740353.123  | Var 0.00023108564103881975    | Var 0.008151659070192928  | Var 1.8523681790166796e-05 |
|                        |                               |                           |                            |
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# noiseVS1000dogs.csvs

| MSE                      | RMSE                        | PSNR                      | UQI                         |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| Mean 12825.248968098957  | Mean 110.87290538108658     | Mean 7.422509003711621    | Mean 0.2709958003615799     |
| Max 39595.2822265625     | Max 198.98563321647745      | Max 13.972738271617766    | Max 0.5632602926212892      |
| Min 2604.9928385416665   | Min 51.03913046420037       | Min 2.154369179986912     | Min 0.1060075292813764      |
| Median 12073.06298828125 | Median 109.87748979348419   | Median 7.312629105883719  | Median 0.268945856526589    |
| Std 5441.763356363787    | Std 23.086376962547288      | Std 1.820394038070311     | Std 0.0738894273798385      |
| Var 29612788.426663674   | Var 532.9808012568341       | Var 3.3138344538419324    | Var 0.005459647478520427    |
|                          |                             |                           |                             |
| ERGAS                    | SCC                         | SAM                       | VIF                         |
| Mean 51301.0079209469    | Mean -0.0007450739388423729 | Mean 0.942419344767864    | Mean 0.022007393430684304   |
| Max 4378383.383036189    | Max 0.0467935273489809      | Max 1.1886721208863806    | Max 0.0346762028765945      |
| Min 35255.263177568115   | Min -0.0558283442931868     | Min 0.8621819604006845    | Min 0.01615935526997        |
| Median 40161.58462738934 | Median -0.00096814987296145 | Median 0.9363310012853863 | Median 0.021661080460382898 |
| Std 169764.97853757368   | Std 0.014856983281871067    | Std 0.045334224920062866  | Std 0.0027854763657798095   |
| Var 28820147937.862858   | Var 0.00022072995223779637  | Var 0.002055191949102849  | Var 7.758878584317895e-06   |
|                          |                             |                           |                             |

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