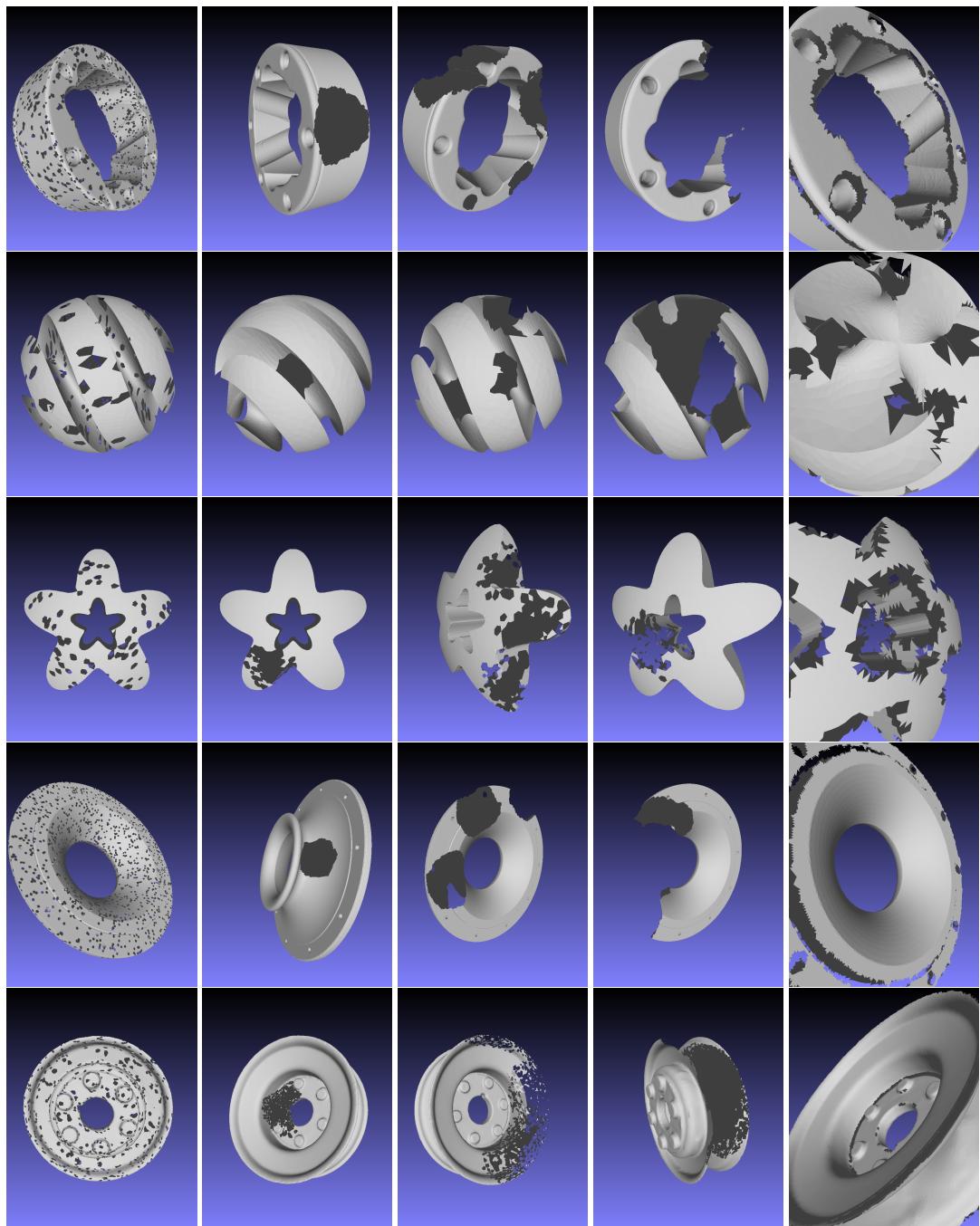


SUPPLEMENTARY MATERIALS





(a) GT (b) Extreme value (c) Impulsive (d) Laplace (e) Uniform
Figure 2: Results of topological noise generation applied to rolling_stage, sharp_sphere, trim_star, turbine_Lp and pulley.

Topological noise generation methods have a lot of input variables so the time and physical memory functions can have high-dimensional space of parameters. We provide a table with examples of time and memory measurements.

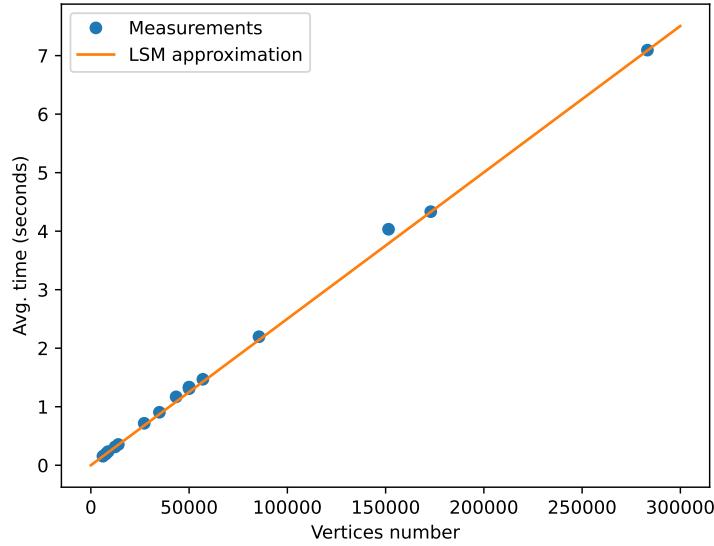


Figure 3: Node noise generator time consumption depending on vertices number. The approximating line is $y = 2.502 \cdot 10^{-5}$.

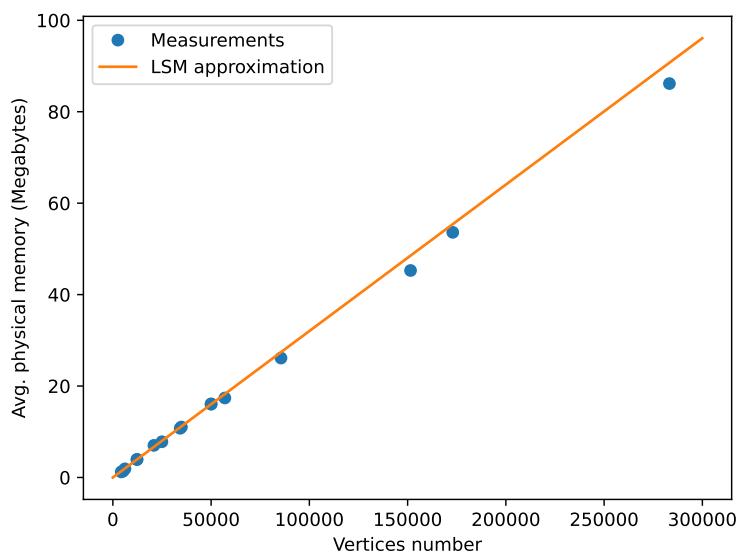


Figure 4: Node noise generator physical memory consumption depending on vertices number. The approximation line is $y = 32.031 \cdot 10^{-5}$.

Full results of mesh denoising probing by objects with node noise properties and denoising algorithms.

Nº	Model name	Method & properties	Avg time (sec)	Avg memory (MB)
0	armadillo	Random(5, 0)	3.789250	54.07
1	armadillo	Random(50, 0)	5.660930	53.96
2	armadillo	OneCluster(0.5, 30, 40.0, 60)	4.443060	46.02
3	armadillo	OneCluster(0.5, 50, 80.0, 60)	6.386010	53.9
4	armadillo	Clusters(0.5, 30, 40.0, 4, 50, 0, 10)	3.969220	53.79
5	armadillo	Clusters(0.5, 50, 80.0, 4, 50, 0, 10)	3.920150	53.75
6	armadillo	Clusters(0.5, 30, 40.0, 4, 50, 1, 10)	4.098010	54.08
7	armadillo	Clusters(0.5, 50, 80.0, 4, 50, 1, 10)	3.973570	53.67
8	armadillo	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 30, 3, 2, 16, 0)	33.380940	53.6
9	armadillo	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 3, 3, 2, 16, 0)	34.118790	53.61
10	bumpy_torus	Random(5, 0)	0.333392	5.14
11	bumpy_torus	Random(50, 0)	0.285790	5.22
12	bumpy_torus	OneCluster(0.5, 30, 40.0, 60)	1.503680	5.23
13	bumpy_torus	OneCluster(0.5, 50, 80.0, 60)	3.244280	5.19
14	bumpy_torus	Clusters(0.5, 20, 20.0, 4, 30, 0, 10)	0.351000	5.58
15	bumpy_torus	Clusters(0.5, 30, 30.0, 4, 30, 0, 10)	0.337690	5.25
16	bumpy_torus	Clusters(0.5, 20, 20.0, 4, 30, 1, 10)	0.352500	5.21
17	bumpy_torus	Clusters(0.5, 30, 30.0, 4, 30, 1, 10)	0.337860	5.24
18	bumpy_torus	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 30, 3, 2, 16, 0)	2.939880	5.18
19	bumpy_torus	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 3, 3, 2, 16, 0)	2.860150	5.07
20	genus3	Random(5, 0)	0.127170	1.99
21	genus4	Random(50, 0)	0.109240	1.99
22	genus5	OneCluster(0.5, 10, 20.0, 60)	0.189750	2.01
23	genus6	OneCluster(0.5, 20, 30.0, 60)	0.448790	2
24	genus7	Clusters(0.5, 10, 20.0, 4, 15, 0, 10)	0.135260	2.02
25	genus8	Clusters(0.5, 20, 30.0, 4, 15, 0, 10)	0.128570	2.01
26	genus9	Clusters(0.5, 10, 20.0, 4, 15, 1, 10)	0.136710	1.96
27	genus10	Clusters(0.5, 20, 30.0, 4, 15, 1, 10)	0.123770	1.98
28	genus11	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 30, 3, 2, 16, 0)	1.099810	2.05
29	genus12	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 3, 3, 2, 16, 0)	1.087000	2.05
30	kitten	Random(5, 0)	0.564170	6.77
31	kitten	Random(50, 0)	0.464440	7.21
32	kitten	OneCluster(0.5, 10, 20.0, 60)	0.576720	7.19
33	kitten	OneCluster(0.5, 20, 30.0, 60)	0.890540	7.7
34	kitten	Clusters(0.5, 10, 20.0, 4, 15, 0, 10)	0.520480	7.74
35	kitten	Clusters(0.5, 20, 30.0, 4, 15, 0, 10)	0.511630	7.78
36	kitten	Clusters(0.5, 10, 20.0, 4, 15, 1, 10)	0.524540	7.93
37	kitten	Clusters(0.5, 20, 30.0, 4, 15, 1, 10)	0.517330	7.84
38	kitten	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 30, 3, 2, 16, 0)	4.673410	7.77
39	kitten	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 3, 3, 2, 16, 0)	4.659800	7.74
40	gargoyle	Random(5, 0)	2.034010	25.97
41	gargoyle	Random(50, 0)	2.075420	26.18
42	gargoyle	OneCluster(0.5, 30, 30.0, 60)	3.170110	26.08
43	gargoyle	OneCluster(0.5, 40, 40.0, 60)	4.444310	26.06
44	gargoyle	Clusters(0.5, 30, 30.0, 4, 15, 0, 10)	1.846240	26.59
45	gargoyle	Clusters(0.5, 40, 40.0, 4, 15, 0, 10)	1.817670	26.17
46	gargoyle	Clusters(0.5, 30, 30.0, 4, 15, 1, 10)	1.832070	26.03
47	gargoyle	Clusters(0.5, 40, 40.0, 4, 15, 1, 10)	1.767840	26.22
48	gargoyle	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 30, 3, 2, 16, 0)	17.348290	26.11
49	gargoyle	Patch(0.005, 0.01, 0.01, 0.05, 0.08, 3, 3, 3, 2, 16, 0)	17.447420	25.34

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
0	Bilateral	gargoyle_noise_Weibull_1.0_0.2	0.000747	9.249199
1	Bilateral	gargoyle_noise_Exponential_4.0	0.000872	9.712539
2	Bilateral	gargoyle_noise_Gamma_0.1_0.3	0.000503	8.537585
3	Bilateral	gargoyle_noise_Gamma_0.1_0.2	0.000500	8.460130
4	Bilateral	gargoyle_noise_Weibull_1.0_0.3	0.001006	10.365494
5	Bilateral	gargoyle_noise_Exponential_7.0	0.000629	8.874353
6	Bilateral	gargoyle_noise_Exponential_10.0	0.000562	8.652876
7	Bilateral	gargoyle_noise_Gamma_0.1_0.4	0.000509	8.660979
8	Bilateral	gargoyle_noise_Weibull_1.0_0.1	0.000562	8.652876
9	Bilateral	chinese_lion_noise_Gamma_0.1_0.3	0.000734	9.122820
10	Bilateral	chinese_lion_noise_Gamma_0.1_0.4	0.000749	9.217284
11	Bilateral	chinese_lion_noise_Gamma_0.1_0.2	0.000728	9.071995
12	Bilateral	chinese_lion_noise_Exponential_10.0	0.000827	9.120291
13	Bilateral	chinese_lion_noise_Exponential_4.0	0.001341	9.719057
14	Bilateral	chinese_lion_noise_Weibull_1.0_0.3	0.001565	10.225693
15	Bilateral	chinese_lion_noise_Exponential_7.0	0.000938	9.190686
16	Bilateral	chinese_lion_noise_Weibull_1.0_0.1	0.000827	9.120291
17	Bilateral	chinese_lion_noise_Weibull_1.0_0.2	0.001139	9.422273
18	Bilateral	armadillo_noise_Gamma_0.1_0.2	0.000268	7.975735
19	Bilateral	armadillo_noise_Weibull_1.0_0.1	0.000329	7.978328
20	Bilateral	armadillo_noise_Gamma_0.1_0.3	0.000267	7.984345
21	Bilateral	armadillo_noise_Weibull_1.0_0.3	0.000640	8.131891
22	Bilateral	armadillo_noise_Gamma_0.1_0.4	0.000272	8.006418
23	Bilateral	armadillo_noise_Weibull_1.0_0.2	0.000451	7.991958
24	Bilateral	armadillo_noise_Exponential_7.0	0.000378	7.982356
25	Bilateral	armadillo_noise_Exponential_10.0	0.000329	7.978328
26	Bilateral	armadillo_noise_Exponential_4.0	0.000534	8.024473

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
27	Cascaded	gargoyle_noise_Gamma_0.1_0.3	0.000265	6.499995
28	Cascaded	gargoyle_noise_Exponential_7.0	0.000483	6.981606
29	Cascaded	gargoyle_noise_Exponential_10.0	0.000370	6.538641
30	Cascaded	gargoyle_noise_Weibull_1.0_0.2	0.000651	7.791764
31	Cascaded	gargoyle_noise_Exponential_4.0	0.000804	8.650815
32	Cascaded	gargoyle_noise_Weibull_1.0_0.3	0.000956	9.700627
33	Cascaded	gargoyle_noise_Weibull_1.0_0.1	0.000370	6.538641
34	Cascaded	gargoyle_noise_Gamma_0.1_0.4	0.000281	6.768653
35	Cascaded	gargoyle_noise_Gamma_0.1_0.2	0.000249	6.284931
36	Cascaded	chinese_lion_noise_Exponential_7.0	0.000800	7.130986
37	Cascaded	chinese_lion_noise_Weibull_1.0_0.1	0.000617	6.771298
38	Cascaded	chinese_lion_noise_Weibull_1.0_0.3	0.001570	9.484178
39	Cascaded	chinese_lion_noise_Exponential_10.0	0.000617	6.771298
40	Cascaded	chinese_lion_noise_Exponential_4.0	0.001343	8.609596
41	Cascaded	chinese_lion_noise_Gamma_0.1_0.3	0.000444	6.751402
42	Cascaded	chinese_lion_noise_Weibull_1.0_0.2	0.001074	7.839531
43	Cascaded	chinese_lion_noise_Gamma_0.1_0.2	0.000416	6.581388
44	Cascaded	chinese_lion_noise_Gamma_0.1_0.4	0.000477	7.024778
45	Cascaded	armadillo_noise_Gamma_0.1_0.4	0.000174	5.657319
46	Cascaded	armadillo_noise_Weibull_1.0_0.3	0.000693	6.760737
47	Cascaded	armadillo_noise_Exponential_10.0	0.000252	5.537993
48	Cascaded	armadillo_noise_Exponential_4.0	0.000582	6.332960
49	Cascaded	armadillo_noise_Gamma_0.1_0.2	0.000164	5.458521
50	Cascaded	armadillo_noise_Gamma_0.1_0.3	0.000165	5.536267
51	Cascaded	armadillo_noise_Weibull_1.0_0.2	0.000453	5.981332
52	Cascaded	armadillo_noise_Weibull_1.0_0.1	0.000252	5.537993
53	Cascaded	armadillo_noise_Exponential_7.0	0.000327	5.684973
54	Fast and Effective	gargoyle_noise_Weibull_1.0_0.2	0.001386	15.868624
55	Fast and Effective	gargoyle_noise_Exponential_4.0	0.001400	16.312295
56	Fast and Effective	gargoyle_noise_Gamma_0.1_0.3	0.001394	15.418211
57	Fast and Effective	gargoyle_noise_Gamma_0.1_0.2	0.001401	15.339986
58	Fast and Effective	gargoyle_noise_Weibull_1.0_0.3	0.001434	16.805289
59	Fast and Effective	gargoyle_noise_Exponential_7.0	0.001386	15.570016
60	Fast and Effective	gargoyle_noise_Exponential_10.0	0.001391	15.406325
61	Fast and Effective	gargoyle_noise_Gamma_0.1_0.4	0.001388	15.496634
62	Fast and Effective	gargoyle_noise_Weibull_1.0_0.1	0.001391	15.406325
63	Fast and Effective	chinese_lion_noise_Gamma_0.1_0.3	0.001888	15.238842
64	Fast and Effective	chinese_lion_noise_Gamma_0.1_0.4	0.001880	15.258557
65	Fast and Effective	chinese_lion_noise_Gamma_0.1_0.2	0.001896	15.237188
66	Fast and Effective	chinese_lion_noise_Exponential_10.0	0.001887	15.062231
67	Fast and Effective	chinese_lion_noise_Exponential_4.0	0.001945	15.195173
68	Fast and Effective	chinese_lion_noise_Weibull_1.0_0.3	0.002022	15.460088
69	Fast and Effective	chinese_lion_noise_Exponential_7.0	0.001888	15.027832
70	Fast and Effective	chinese_lion_noise_Weibull_1.0_0.1	0.001887	15.062231
71	Fast and Effective	chinese_lion_noise_Weibull_1.0_0.2	0.001909	15.038942
72	Fast and Effective	armadillo_noise_Gamma_0.1_0.2	0.000479	11.053235
73	Fast and Effective	armadillo_noise_Weibull_1.0_0.1	0.000505	11.044648
74	Fast and Effective	armadillo_noise_Gamma_0.1_0.3	0.000479	11.056831
75	Fast and Effective	armadillo_noise_Weibull_1.0_0.3	0.000703	11.129617
76	Fast and Effective	armadillo_noise_Gamma_0.1_0.4	0.000475	11.092881
77	Fast and Effective	armadillo_noise_Weibull_1.0_0.2	0.000577	11.020913
78	Fast and Effective	armadillo_noise_Exponential_7.0	0.000527	11.032734
79	Fast and Effective	armadillo_noise_Exponential_10.0	0.000505	11.044648
80	Fast and Effective	armadillo_noise_Exponential_4.0	0.000636	11.050551

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
81	GeoBi-GNN	gargoyle_noise_Exponential_7.0	0.000481	4.842808
82	GeoBi-GNN	gargoyle_noise_Exponential_10.0	0.000362	4.305315
83	GeoBi-GNN	gargoyle_noise_Gamma_0.1_0.2	0.000214	3.769204
84	GeoBi-GNN	gargoyle_noise_Weibull_1.0_0.2	0.000650	5.607560
85	GeoBi-GNN	gargoyle_noise_Weibull_1.0_0.1	0.000364	4.298535
86	GeoBi-GNN	gargoyle_noise_Gamma_0.1_0.4	0.000252	4.288386
87	GeoBi-GNN	gargoyle_noise_Weibull_1.0_0.3	0.000956	6.980600
88	GeoBi-GNN	gargoyle_noise_Gamma_0.1_0.3	0.000232	4.028259
89	GeoBi-GNN	gargoyle_noise_Exponential_4.0	0.000804	6.275921
90	GeoBi-GNN	chinese_lion_noise_Exponential_4.0	0.001348	6.419085
91	GeoBi-GNN	chinese_lion_noise_Exponential_10.0	0.000627	4.996926
92	GeoBi-GNN	chinese_lion_noise_Weibull_1.0_0.1	0.000626	5.001181
93	GeoBi-GNN	chinese_lion_noise_Gamma_0.1_0.3	0.000407	4.877675
94	GeoBi-GNN	chinese_lion_noise_Weibull_1.0_0.2	0.001105	5.945302
95	GeoBi-GNN	chinese_lion_noise_Gamma_0.1_0.4	0.000442	5.097958
96	GeoBi-GNN	chinese_lion_noise_Exponential_7.0	0.000823	5.380535
97	GeoBi-GNN	chinese_lion_noise_Gamma_0.1_0.2	0.000376	4.696219
98	GeoBi-GNN	chinese_lion_noise_Weibull_1.0_0.3	0.001614	6.899358
99	GeoBi-GNN	armadillo_noise_Gamma_0.1_0.4	0.000168	4.365289
100	GeoBi-GNN	armadillo_noise_Weibull_1.0_0.3	0.000701	6.058844
101	GeoBi-GNN	armadillo_noise_Gamma_0.1_0.3	0.000154	4.135053
102	GeoBi-GNN	armadillo_noise_Exponential_7.0	0.000358	4.663211
103	GeoBi-GNN	armadillo_noise_Gamma_0.1_0.2	0.000149	3.927534
104	GeoBi-GNN	armadillo_noise_Exponential_10.0	0.000272	4.276598
105	GeoBi-GNN	armadillo_noise_Exponential_4.0	0.000584	5.625006
106	GeoBi-GNN	armadillo_noise_Weibull_1.0_0.1	0.000279	4.272862
107	GeoBi-GNN	armadillo_noise_Weibull_1.0_0.2	0.000454	5.192033
108	Guided mesh	gargoyle_noise_Weibull_1.0_0.2	0.000757	11.553716
109	Guided mesh	gargoyle_noise_Exponential_4.0	0.000880	11.895421
110	Guided mesh	gargoyle_noise_Gamma_0.1_0.3	0.000483	10.744450
111	Guided mesh	gargoyle_noise_Gamma_0.1_0.2	0.000478	10.616649
112	Guided mesh	gargoyle_noise_Weibull_1.0_0.3	0.001024	12.334769
113	Guided mesh	gargoyle_noise_Exponential_7.0	0.000632	11.205253
114	Guided mesh	gargoyle_noise_Exponential_10.0	0.000555	10.970551
115	Guided mesh	gargoyle_noise_Gamma_0.1_0.4	0.000497	10.854069
116	Guided mesh	gargoyle_noise_Weibull_1.0_0.1	0.000555	10.970551
117	Guided mesh	chinese_lion_noise_Gamma_0.1_0.3	0.000773	10.498077
118	Guided mesh	chinese_lion_noise_Gamma_0.1_0.4	0.000795	10.609070
119	Guided mesh	chinese_lion_noise_Gamma_0.1_0.2	0.000753	10.391949
120	Guided mesh	chinese_lion_noise_Exponential_10.0	0.000877	10.666050
121	Guided mesh	chinese_lion_noise_Exponential_4.0	0.001429	11.496384
122	Guided mesh	chinese_lion_noise_Weibull_1.0_0.3	0.001655	11.954459
123	Guided mesh	chinese_lion_noise_Exponential_7.0	0.001007	10.964923
124	Guided mesh	chinese_lion_noise_Weibull_1.0_0.1	0.000877	10.666050
125	Guided mesh	chinese_lion_noise_Weibull_1.0_0.2	0.001214	11.208097
126	Guided mesh	armadillo_noise_Gamma_0.1_0.2	0.000265	7.971544
127	Guided mesh	armadillo_noise_Weibull_1.0_0.1	0.000345	8.030106
128	Guided mesh	armadillo_noise_Gamma_0.1_0.3	0.000268	8.001259
129	Guided mesh	armadillo_noise_Weibull_1.0_0.3	0.000665	8.322762
130	Guided mesh	armadillo_noise_Gamma_0.1_0.4	0.000275	8.033903
131	Guided mesh	armadillo_noise_Weibull_1.0_0.2	0.000517	8.156138
132	Guided mesh	armadillo_noise_Exponential_7.0	0.000382	8.079287
133	Guided mesh	armadillo_noise_Exponential_10.0	0.000345	8.030106
134	Guided mesh	armadillo_noise_Exponential_4.0	0.000625	8.230645

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
0	Bilateral	turbine_Lp_noise_Gamma_0.1_0.4	0.000304	2.738605
1	Bilateral	turbine_Lp_noise_Weibull_1.0_0.2	0.000899	3.136805
2	Bilateral	turbine_Lp_noise_Weibull_1.0_0.1	0.000509	2.711838
3	Bilateral	turbine_Lp_noise_Exponential_10.0	0.000509	2.711838
4	Bilateral	turbine_Lp_noise_Weibull_1.0_0.3	0.001312	3.716058
5	Bilateral	turbine_Lp_noise_Gamma_0.1_0.3	0.000269	2.592922
6	Bilateral	turbine_Lp_noise_Exponential_7.0	0.000672	2.866316
7	Bilateral	turbine_Lp_noise_Exponential_4.0	0.001103	3.381773
8	Bilateral	turbine_Lp_noise_Gamma_0.1_0.2	0.000236	2.466585
9	Bilateral	joint_noise_Exponential_10.0	0.000972	1.439633
10	Bilateral	joint_noise_Weibull_1.0_0.2	0.001899	1.857672
11	Bilateral	joint_noise_Weibull_1.0_0.3	0.002874	2.561464
12	Bilateral	joint_noise_Weibull_1.0_0.1	0.000972	1.439633
13	Bilateral	joint_noise_Gamma_0.1_0.4	0.000341	1.522117
14	Bilateral	joint_noise_Exponential_4.0	0.002402	2.151078
15	Bilateral	joint_noise_Gamma_0.1_0.2	0.000199	1.298088
16	Bilateral	joint_noise_Gamma_0.1_0.3	0.000268	1.395982
17	Bilateral	joint_noise_Exponential_7.0	0.001362	1.604375
18	Bilateral	block_noise_Weibull_1.0_0.1	0.001304	1.879458
19	Bilateral	block_noise_Exponential_10.0	0.001304	1.879458
20	Bilateral	block_noise_Weibull_1.0_0.2	0.002526	2.441047
21	Bilateral	block_noise_Gamma_0.1_0.2	0.000354	1.736506
22	Bilateral	block_noise_Exponential_4.0	0.003125	2.880825
23	Bilateral	block_noise_Weibull_1.0_0.3	0.003783	3.570216
24	Bilateral	block_noise_Exponential_7.0	0.001818	2.064564
25	Bilateral	block_noise_Gamma_0.1_0.4	0.000662	2.001267
26	Bilateral	block_noise_Gamma_0.1_0.3	0.000472	1.841261
27	Cascaded	turbine_Lp_noise_Gamma_0.1_0.4	0.000238	2.418200
28	Cascaded	turbine_Lp_noise_Weibull_1.0_0.1	0.000462	2.295980
29	Cascaded	turbine_Lp_noise_Exponential_10.0	0.000462	2.295980
30	Cascaded	turbine_Lp_noise_Gamma_0.1_0.3	0.000200	2.285718
31	Cascaded	turbine_Lp_noise_Exponential_7.0	0.000640	2.506869
32	Cascaded	turbine_Lp_noise_Weibull_1.0_0.2	0.000879	2.805716
33	Cascaded	turbine_Lp_noise_Gamma_0.1_0.2	0.000165	2.203087
34	Cascaded	turbine_Lp_noise_Exponential_4.0	0.001089	3.125565
35	Cascaded	turbine_Lp_noise_Weibull_1.0_0.3	0.001304	3.635965
36	Cascaded	joint_noise_Exponential_4.0	0.002392	2.007897
37	Cascaded	joint_noise_Gamma_0.1_0.4	0.000356	1.455333
38	Cascaded	joint_noise_Weibull_1.0_0.3	0.002864	2.325625
39	Cascaded	joint_noise_Weibull_1.0_0.2	0.001920	1.688687
40	Cascaded	joint_noise_Exponential_10.0	0.000878	1.361399
41	Cascaded	joint_noise_Exponential_7.0	0.001360	1.470199
42	Cascaded	joint_noise_Gamma_0.1_0.2	0.000218	1.245063
43	Cascaded	joint_noise_Weibull_1.0_0.1	0.000878	1.361399
44	Cascaded	joint_noise_Gamma_0.1_0.3	0.000276	1.327570
45	Cascaded	block_noise_Exponential_10.0	0.001231	1.758589
46	Cascaded	block_noise_Weibull_1.0_0.2	0.002545	2.365857
47	Cascaded	block_noise_Exponential_4.0	0.003044	2.798626
48	Cascaded	block_noise_Gamma_0.1_0.3	0.000428	1.780504
49	Cascaded	block_noise_Weibull_1.0_0.3	0.003610	3.397748
50	Cascaded	block_noise_Weibull_1.0_0.1	0.001231	1.758589
51	Cascaded	block_noise_Exponential_7.0	0.001763	1.960923
52	Cascaded	block_noise_Gamma_0.1_0.4	0.000546	1.921804
53	Cascaded	block_noise_Gamma_0.1_0.2	0.000326	1.665598

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
54	Fast and Effective	turbine.Lp_noise_Gamma_0.1_0.4	0.000570	3.912412
55	Fast and Effective	turbine.Lp_noise_Weibull_1.0_0.2	0.001051	4.128869
56	Fast and Effective	turbine.Lp_noise_Weibull_1.0_0.1	0.000735	3.900551
57	Fast and Effective	turbine.Lp_noise_Exponential_10.0	0.000735	3.900551
58	Fast and Effective	turbine.Lp_noise_Weibull_1.0_0.3	0.001400	4.540027
59	Fast and Effective	turbine.Lp_noise_Gamma_0.1_0.3	0.000541	3.823741
60	Fast and Effective	turbine.Lp_noise_Exponential_7.0	0.000867	3.990148
61	Fast and Effective	turbine.Lp_noise_Exponential_4.0	0.001222	4.326323
62	Fast and Effective	turbine.Lp_noise_Gamma_0.1_0.2	0.000515	3.756374
63	Fast and Effective	joint.noise_Exponential_10.0	0.000976	1.294910
64	Fast and Effective	joint.noise_Weibull_1.0_0.2	0.001608	1.636816
65	Fast and Effective	joint.noise_Weibull_1.0_0.3	0.002639	2.326293
66	Fast and Effective	joint.noise_Weibull_1.0_0.1	0.000976	1.294910
67	Fast and Effective	joint.noise_Gamma_0.1_0.4	0.000324	1.462252
68	Fast and Effective	joint.noise_Exponential_4.0	0.002202	1.892792
69	Fast and Effective	joint.noise_Gamma_0.1_0.2	0.000196	1.211419
70	Fast and Effective	joint.noise_Gamma_0.1_0.3	0.000258	1.320030
71	Fast and Effective	joint.noise_Exponential_7.0	0.001321	1.434024
72	Fast and Effective	block.noise_Weibull_1.0_0.1	0.001472	2.018814
73	Fast and Effective	block.noise_Exponential_10.0	0.001472	2.018814
74	Fast and Effective	block.noise_Weibull_1.0_0.2	0.002584	2.479746
75	Fast and Effective	block.noise_Gamma_0.1_0.2	0.000528	1.948293
76	Fast and Effective	block.noise_Exponential_4.0	0.003251	3.009399
77	Fast and Effective	block.noise_Weibull_1.0_0.3	0.003965	3.637848
78	Fast and Effective	block.noise_Exponential_7.0	0.001933	2.155198
79	Fast and Effective	block.noise_Gamma_0.1_0.4	0.000727	2.106980
80	Fast and Effective	block.noise_Gamma_0.1_0.3	0.000625	2.013730
81	GeoBi-GNN	turbine.Lp_noise_Weibull_1.0_0.1	0.000469	2.338148
82	GeoBi-GNN	turbine.Lp_noise_Exponential_4.0	0.001101	3.408292
83	GeoBi-GNN	turbine.Lp_noise_Gamma_0.1_0.3	0.000219	2.260155
84	GeoBi-GNN	turbine.Lp_noise_Exponential_7.0	0.000646	2.614226
85	GeoBi-GNN	turbine.Lp_noise_Weibull_1.0_0.2	0.000887	3.054359
86	GeoBi-GNN	turbine.Lp_noise_Weibull_1.0_0.3	0.001317	3.793214
87	GeoBi-GNN	turbine.Lp_noise_Gamma_0.1_0.4	0.000255	2.418491
88	GeoBi-GNN	turbine.Lp_noise_Gamma_0.1_0.2	0.000188	2.112398
89	GeoBi-GNN	turbine.Lp_noise_Exponential_10.0	0.000470	2.346908
90	GeoBi-GNN	joint.noise_Weibull_1.0_0.2	0.001865	2.418290
91	GeoBi-GNN	joint.noise_Exponential_10.0	0.000846	1.847922
92	GeoBi-GNN	joint.noise_Gamma_0.1_0.3	0.000331	1.776157
93	GeoBi-GNN	joint.noise_Gamma_0.1_0.4	0.000382	1.891290
94	GeoBi-GNN	joint.noise_Weibull_1.0_0.3	0.002670	3.115151
95	GeoBi-GNN	joint.noise_Gamma_0.1_0.2	0.000279	1.626879
96	GeoBi-GNN	joint.noise_Exponential_7.0	0.001315	2.081998
97	GeoBi-GNN	joint.noise_Weibull_1.0_0.1	0.000903	1.849870
98	GeoBi-GNN	joint.noise_Exponential_4.0	0.002257	2.721036
99	GeoBi-GNN	block.noise_Exponential_4.0	0.003028	3.699821
100	GeoBi-GNN	block.noise_Gamma_0.1_0.3	0.000598	2.285376
101	GeoBi-GNN	block.noise_Weibull_1.0_0.3	0.003657	4.243806
102	GeoBi-GNN	block.noise_Exponential_10.0	0.001239	2.431856
103	GeoBi-GNN	block.noise_Weibull_1.0_0.2	0.002392	3.200455
104	GeoBi-GNN	block.noise_Gamma_0.1_0.4	0.000680	2.490465
105	GeoBi-GNN	block.noise_Exponential_7.0	0.001809	2.692322
106	GeoBi-GNN	block.noise_Gamma_0.1_0.2	0.000551	2.212734
107	GeoBi-GNN	block.noise_Weibull_1.0_0.1	0.001253	2.419386

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
108	Guided mesh	turbine_Lp_noise_Gamma_0.1_0.4	0.000340	3.821053
109	Guided mesh	turbine_Lp_noise_Weibull_1.0_0.2	0.000920	4.097203
110	Guided mesh	turbine_Lp_noise_Weibull_1.0_0.1	0.000534	3.775582
111	Guided mesh	turbine_Lp_noise_Exponential_10.0	0.000534	3.775582
112	Guided mesh	turbine_Lp_noise_Weibull_1.0_0.3	0.001336	4.456821
113	Guided mesh	turbine_Lp_noise_Gamma_0.1_0.3	0.000305	3.756104
114	Guided mesh	turbine_Lp_noise_Exponential_7.0	0.000694	3.896135
115	Guided mesh	turbine_Lp_noise_Exponential_4.0	0.001126	4.276917
116	Guided mesh	turbine_Lp_noise_Gamma_0.1_0.2	0.000273	3.690625
117	Guided mesh	joint_noise_Exponential_10.0	0.000969	1.353163
118	Guided mesh	joint_noise_Weibull_1.0_0.2	0.001779	1.730396
119	Guided mesh	joint_noise_Weibull_1.0_0.3	0.002590	2.252040
120	Guided mesh	joint_noise_Weibull_1.0_0.1	0.000969	1.353163
121	Guided mesh	joint_noise_Gamma_0.1_0.4	0.000372	1.383256
122	Guided mesh	joint_noise_Exponential_4.0	0.002185	1.949163
123	Guided mesh	joint_noise_Gamma_0.1_0.2	0.000205	1.213607
124	Guided mesh	joint_noise_Gamma_0.1_0.3	0.000291	1.294428
125	Guided mesh	joint_noise_Exponential_7.0	0.001301	1.518620
126	Guided mesh	block_noise_Weibull_1.0_0.1	0.001411	1.828216
127	Guided mesh	block_noise_Exponential_10.0	0.001411	1.828216
128	Guided mesh	block_noise_Weibull_1.0_0.2	0.002589	2.255424
129	Guided mesh	block_noise_Gamma_0.1_0.2	0.000353	1.697617
130	Guided mesh	block_noise_Exponential_4.0	0.003328	2.643045
131	Guided mesh	block_noise_Weibull_1.0_0.3	0.003892	3.000162
132	Guided mesh	block_noise_Exponential_7.0	0.001809	2.006038
133	Guided mesh	block_noise_Gamma_0.1_0.4	0.000586	1.886003
134	Guided mesh	block_noise_Gamma_0.1_0.3	0.000468	1.812207

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
0	Bilateral	kitten_noise_Weibull_1.0_0.2	0.001262	2.555827
1	Bilateral	kitten_noise_Weibull_1.0_0.3	0.001898	2.932884
2	Bilateral	kitten_noise_Gamma_0.1_0.2	0.000238	2.336500
3	Bilateral	kitten_noise_Weibull_1.0_0.1	0.000641	2.381566
4	Bilateral	kitten_noise_Exponential_10.0	0.000641	2.381566
5	Bilateral	kitten_noise_Exponential_7.0	0.000903	2.444232
6	Bilateral	kitten_noise_Exponential_4.0	0.001579	2.711813
7	Bilateral	kitten_noise_Gamma_0.1_0.4	0.000320	2.426473
8	Bilateral	kitten_noise_Gamma_0.1_0.3	0.000275	2.365418
9	Bilateral	bumpy_torus_noise_Weibull_1.0_0.1	0.001150	3.765457
10	Bilateral	bumpy_torus_noise_Weibull_1.0_0.2	0.001996	3.958772
11	Bilateral	bumpy_torus_noise_Exponential_10.0	0.001150	3.765457
12	Bilateral	bumpy_torus_noise_Exponential_4.0	0.002476	4.312076
13	Bilateral	bumpy_torus_noise_Weibull_1.0_0.3	0.002936	4.909980
14	Bilateral	bumpy_torus_noise_Gamma_0.1_0.2	0.000693	3.820861
15	Bilateral	bumpy_torus_noise_Gamma_0.1_0.4	0.000757	3.942340
16	Bilateral	bumpy_torus_noise_Gamma_0.1_0.3	0.000718	3.847972
17	Bilateral	bumpy_torus_noise_Exponential_7.0	0.001516	3.808780
18	Bilateral	fertility_noise_Gamma_0.1_0.4	0.000803	5.147494
19	Bilateral	fertility_noise_Weibull_1.0_0.3	0.002565	5.716052
20	Bilateral	fertility_noise_Gamma_0.1_0.2	0.000743	4.990213
21	Bilateral	fertility_noise_Weibull_1.0_0.1	0.001047	4.998767
22	Bilateral	fertility_noise_Exponential_4.0	0.002155	5.469962
23	Bilateral	fertility_noise_Exponential_7.0	0.001328	5.076071
24	Bilateral	fertility_noise_Weibull_1.0_0.2	0.001756	5.248106
25	Bilateral	fertility_noise_Gamma_0.1_0.3	0.000772	5.083639
26	Bilateral	fertility_noise_Exponential_10.0	0.001047	4.998767
27	Cascaded	kitten_noise_Exponential_4.0	0.001578	3.174628
28	Cascaded	kitten_noise_Weibull_1.0_0.3	0.001883	3.526154
29	Cascaded	kitten_noise_Exponential_10.0	0.000627	2.398404
30	Cascaded	kitten_noise_Weibull_1.0_0.1	0.000627	2.398404
31	Cascaded	kitten_noise_Gamma_0.1_0.3	0.000234	2.408667
32	Cascaded	kitten_noise_Gamma_0.1_0.4	0.000286	2.562621
33	Cascaded	kitten_noise_Exponential_7.0	0.000894	2.555037
34	Cascaded	kitten_noise_Weibull_1.0_0.2	0.001256	2.852618
35	Cascaded	kitten_noise_Gamma_0.1_0.2	0.000190	2.306994
36	Cascaded	bumpy_torus_noise_Weibull_1.0_0.2	0.001945	3.967024
37	Cascaded	bumpy_torus_noise_Exponential_4.0	0.002399	4.846692
38	Cascaded	bumpy_torus_noise_Weibull_1.0_0.1	0.001007	2.662698
39	Cascaded	bumpy_torus_noise_Gamma_0.1_0.4	0.000547	3.019553
40	Cascaded	bumpy_torus_noise_Gamma_0.1_0.2	0.000423	2.400831
41	Cascaded	bumpy_torus_noise_Weibull_1.0_0.3	0.002845	5.741241
42	Cascaded	bumpy_torus_noise_Exponential_7.0	0.001404	3.143471
43	Cascaded	bumpy_torus_noise_Exponential_10.0	0.001007	2.662698
44	Cascaded	bumpy_torus_noise_Gamma_0.1_0.3	0.000484	2.686250
45	Cascaded	fertility_noise_Gamma_0.1_0.3	0.000434	2.844229
46	Cascaded	fertility_noise_Gamma_0.1_0.2	0.000381	2.645929
47	Cascaded	fertility_noise_Exponential_10.0	0.000885	2.783034
48	Cascaded	fertility_noise_Weibull_1.0_0.2	0.001711	3.716715
49	Cascaded	fertility_noise_Weibull_1.0_0.1	0.000885	2.783034
50	Cascaded	fertility_noise_Exponential_7.0	0.001233	3.130546
51	Cascaded	fertility_noise_Gamma_0.1_0.4	0.000497	3.120066
52	Cascaded	fertility_noise_Weibull_1.0_0.3	0.002553	5.040976
53	Cascaded	fertility_noise_Exponential_4.0	0.002132	4.357053

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
54	Fast and Effective	kitten_noise_Weibull_1.0_0.2	0.001391	3.450675
55	Fast and Effective	kitten_noise_Weibull_1.0_0.3	0.001981	3.577371
56	Fast and Effective	kitten_noise_Gamma_0.1_0.2	0.000636	3.401404
57	Fast and Effective	kitten_noise_Weibull_1.0_0.1	0.000878	3.408934
58	Fast and Effective	kitten_noise_Exponential_10.0	0.000878	3.408934
59	Fast and Effective	kitten_noise_Exponential_7.0	0.001084	3.415111
60	Fast and Effective	kitten_noise_Exponential_4.0	0.001682	3.498786
61	Fast and Effective	kitten_noise_Gamma_0.1_0.4	0.000671	3.510144
62	Fast and Effective	kitten_noise_Gamma_0.1_0.3	0.000650	3.435890
63	Fast and Effective	bumpy_torus_noise_Weibull_1.0_0.1	0.002963	7.524393
64	Fast and Effective	bumpy_torus_noise_Weibull_1.0_0.2	0.003140	7.442868
65	Fast and Effective	bumpy_torus_noise_Exponential_10.0	0.002963	7.524393
66	Fast and Effective	bumpy_torus_noise_Exponential_4.0	0.003280	7.469801
67	Fast and Effective	bumpy_torus_noise_Weibull_1.0_0.3	0.003492	7.612559
68	Fast and Effective	bumpy_torus_noise_Gamma_0.1_0.2	0.002945	7.734652
69	Fast and Effective	bumpy_torus_noise_Gamma_0.1_0.4	0.002861	7.764018
70	Fast and Effective	bumpy_torus_noise_Gamma_0.1_0.3	0.002944	7.732946
71	Fast and Effective	bumpy_torus_noise_Exponential_7.0	0.002987	7.474188
72	Fast and Effective	fertility_noise_Gamma_0.1_0.4	0.001868	7.930363
73	Fast and Effective	fertility_noise_Weibull_1.0_0.3	0.002829	8.112842
74	Fast and Effective	fertility_noise_Gamma_0.1_0.2	0.001845	7.840159
75	Fast and Effective	fertility_noise_Weibull_1.0_0.1	0.001925	7.804923
76	Fast and Effective	fertility_noise_Exponential_4.0	0.002533	7.964284
77	Fast and Effective	fertility_noise_Exponential_7.0	0.002038	7.757340
78	Fast and Effective	fertility_noise_Weibull_1.0_0.2	0.002278	7.804606
79	Fast and Effective	fertility_noise_Gamma_0.1_0.3	0.001854	7.880025
80	Fast and Effective	fertility_noise_Exponential_10.0	0.001925	7.804923
81	GeoBi-GNN	kitten_noise_Gamma_0.1_0.3	0.000267	2.156746
82	GeoBi-GNN	kitten_noise_Exponential_10.0	0.000660	2.209585
83	GeoBi-GNN	kitten_noise_Weibull_1.0_0.3	0.001976	3.057711
84	GeoBi-GNN	kitten_noise_Weibull_1.0_0.1	0.000659	2.210890
85	GeoBi-GNN	kitten_noise_Exponential_4.0	0.001637	2.860859
86	GeoBi-GNN	kitten_noise_Weibull_1.0_0.2	0.001319	2.649112
87	GeoBi-GNN	kitten_noise_Exponential_7.0	0.000943	2.401579
88	GeoBi-GNN	kitten_noise_Gamma_0.1_0.4	0.000322	2.284359
89	GeoBi-GNN	kitten_noise_Gamma_0.1_0.2	0.000218	2.036846
90	GeoBi-GNN	bumpy_torus_noise_Exponential_4.0	0.002435	3.743153
91	GeoBi-GNN	bumpy_torus_noise_Weibull_1.0_0.3	0.002930	4.158346
92	GeoBi-GNN	bumpy_torus_noise_Gamma_0.1_0.2	0.000476	1.906335
93	GeoBi-GNN	bumpy_torus_noise_Gamma_0.1_0.4	0.000604	2.384232
94	GeoBi-GNN	bumpy_torus_noise_Exponential_10.0	0.001047	2.330963
95	GeoBi-GNN	bumpy_torus_noise_Weibull_1.0_0.1	0.001054	2.332946
96	GeoBi-GNN	bumpy_torus_noise_Gamma_0.1_0.3	0.000540	2.147476
97	GeoBi-GNN	bumpy_torus_noise_Weibull_1.0_0.2	0.002021	3.293490
98	GeoBi-GNN	bumpy_torus_noise_Exponential_7.0	0.001452	2.770056
99	GeoBi-GNN	fertility_noise_Weibull_1.0_0.3	0.002553	3.950893
100	GeoBi-GNN	fertility_noise_Exponential_10.0	0.000885	2.569954
101	GeoBi-GNN	fertility_noise_Exponential_7.0	0.001236	2.812542
102	GeoBi-GNN	fertility_noise_Gamma_0.1_0.3	0.000430	2.474236
103	GeoBi-GNN	fertility_noise_Gamma_0.1_0.2	0.000381	2.317475
104	GeoBi-GNN	fertility_noise_Weibull_1.0_0.1	0.000884	2.556558
105	GeoBi-GNN	fertility_noise_Gamma_0.1_0.4	0.000493	2.653651
106	GeoBi-GNN	fertility_noise_Exponential_4.0	0.002140	3.599642
107	GeoBi-GNN	fertility_noise_Weibull_1.0_0.2	0.001713	3.244089

Nº	Filter name	Model name & noise properties	Hausdorff dist.	Angle
108	Guided mesh	kitten_noise_Weibull_1.0_0.2	0.001272	2.908477
109	Guided mesh	kitten_noise_Weibull_1.0_0.3	0.001919	3.211679
110	Guided mesh	kitten_noise_Gamma_0.1_0.2	0.000252	2.654401
111	Guided mesh	kitten_noise_Weibull_1.0_0.1	0.000647	2.699205
112	Guided mesh	kitten_noise_Exponential_10.0	0.000647	2.699205
113	Guided mesh	kitten_noise_Exponential_7.0	0.000910	2.780073
114	Guided mesh	kitten_noise_Exponential_4.0	0.001596	3.057805
115	Guided mesh	kitten_noise_Gamma_0.1_0.4	0.000341	2.755707
116	Guided mesh	kitten_noise_Gamma_0.1_0.3	0.000291	2.696282
117	Guided mesh	bumpy_torus_noise_Weibull_1.0_0.1	0.001292	6.247839
118	Guided mesh	bumpy_torus_noise_Weibull_1.0_0.2	0.002084	6.666152
119	Guided mesh	bumpy_torus_noise_Exponential_10.0	0.001292	6.247839
120	Guided mesh	bumpy_torus_noise_Exponential_4.0	0.002506	7.012920
121	Guided mesh	bumpy_torus_noise_Weibull_1.0_0.3	0.002996	7.299193
122	Guided mesh	bumpy_torus_noise_Gamma_0.1_0.2	0.000904	6.232756
123	Guided mesh	bumpy_torus_noise_Gamma_0.1_0.4	0.000996	6.451781
124	Guided mesh	bumpy_torus_noise_Gamma_0.1_0.3	0.000950	6.345779
125	Guided mesh	bumpy_torus_noise_Exponential_7.0	0.001617	6.333497
126	Guided mesh	fertility_noise_Gamma_0.1_0.4	0.000897	6.352509
127	Guided mesh	fertility_noise_Weibull_1.0_0.3	0.002641	7.040733
128	Guided mesh	fertility_noise_Gamma_0.1_0.2	0.000820	6.171727
129	Guided mesh	fertility_noise_Weibull_1.0_0.1	0.001116	6.286168
130	Guided mesh	fertility_noise_Exponential_4.0	0.002224	6.801732
131	Guided mesh	fertility_noise_Exponential_7.0	0.001397	6.391059
132	Guided mesh	fertility_noise_Weibull_1.0_0.2	0.001825	6.578805
133	Guided mesh	fertility_noise_Gamma_0.1_0.3	0.000852	6.250048
134	Guided mesh	fertility_noise_Exponential_10.0	0.001116	6.286168