TABLE S1: Evaluation Results of Unimodal FUNCTIONS

Func	ctions	SLIM(Ours)	GA	TLBO	DTBO	WO	GSA	WOA	GWO	AVOA	RSA	MPA	TSA	MVO
	Best	0	115178.9	15810.97	0	3090.086	102652.5	9.42E-28	2.03E-50	1.29E-40	950.7029	67068.28	21129.54	5774.195
	Mean	0	127663.3	21976.31	0	4154.675	117519.0	3.16E-25	8.57E-49	4.35E-30	62429.27	84591.05	39078.03	10062.17
101	Worst	0	147585.4	30935.94	0	4989.159	130488.8	2.59E-24	4.52E-48	6.86E-29	137885.9	103925.4	76062.75	14586.72
F1	Std	0	8154.370	4290.922	0	514.9778	6490.972	6.08E-25	1.06E-48	1.58E-29	58249.34	11376.52	12284.36	2145.413
	Median	0	127089.1	20779.93	0	4101.349	118142.7	7.08E-26	5.40E-49	6.36E-33	68469.67	85195.86	40498.89	10058.97
	Rank	1	12	7	1	5	11	4	2	3	9	10	8	6
	Best	0	8.73E+16	70.93355	0	28.26999	33.25428	2.47E-17	1.77E-29	8.21E-20	22.58988	161.1829	84.85528	39.04934
	Mean	0	8.01E+22	109.2867	0	33.23792	40.36618	1.70E-16	7.14E-29	1.99E-14	2.26E+22	189.7700	142.0954	56.87514
	Worst	0	7.66E+23	139.0648	0	38.64667	47.67789	5.22E-16	2.56E-28	2.78E-13	3.44E+23	225.2267	216.0219	76.33318
F2	Std	0	1.77E+23	16.41313	0	3.082656	4.115627	1.27E-16	6.24E-29	6.17E-14	7.66E+22	18.16888	31.96635	10.41209
	Median	0	1.43E+21	111.3324	0	32.81891	40.93319	1.18E-16	5.67E-29	2.32E-16	7.94E+12	186.8033	136.2134	56.25724
	Rank	1	12	8	1	5	6	3	2	4	11	10	9	7
	Best	0	84094.81	13242.66	0	2071.179	40759.39	1.93E-11	4.95E-16	1.02E-44	2119.364	42641.75	27743.67	4604.743
	Mean	0	148316.4	25909.10	0.006771	3596.545	126299.9	7.47E-05	1.09E-12	9.46E-27	67073.31	58903.88	50436.58	14738.43
	Worst	0	235630.3	52299.62	0.135421	4944.201	222399.4	0.000827	1.71E-11	1.87E-25	187962.2	98633.65	75072.89	31608.41
F3	Std	0	40147.47	10308.03	0.030281	744.4649	42958.44	0.000218	3.79E-12	4.18E-26	70584.97	13891.16	15451.06	6521.395
	Median	0	140947.2	22974.21	1.50E-56	3755.162	123064.6	1.09E-07	2.20E-14	1.18E-30	24245.81	55092.24	48443.25	15166.39
	Rank	1	13	8	5	6	12	4	3	2	11	10	9	7
	Best	0	75.66426	34.69649	0	13.12828	75.85380	9.98E-09	1.55E-14	1.07E-21	10.19788	73.72661	44.87512	18.90861
	Mean	0	87.91896	42.90163	0	16.51656	82,79495	0.000239	4.58E-13	4.12E-16	54.73385	81.57019	65.63663	26.01049
	Worst	0	92.62310	52.39688	0	17.92168	85.27022	0.002829	2.74E-12	3.96E-15	93.43172	90.55677	83.93007	32.76835
F4	Std	0	3.545526	5.506864	0	1.406599	2.498018	0.000722	7.60E-13	1.05E-15	35.83248	4.777240	9.939783	3.720602
	Median	0	88.26820	42.32180	0	16.93309	83.92458	6.19E-06	1.62E-13	1.80E-17	81.43002	82.03081	67.25965	25.65801
	Rank	1	12	7	1	5	11	4	3	2	8	10	9	6
	Best	0	1.49E+08	3.82E+06	0	64107.81	146485.9	25.48977	25.33809	0	11093.18	2.14E+07	5.03E+06	406966.0
	Mean	0	2.58E+08	8.98E+06	0	168873.9	599867.8	27.41492	26.74198	0	1.32E+08	1.08E+08	2.73E+07	1.08E+06
	Worst	0	3.51E+08	1.45E+07	0	274220.5	1.27E+06	28.81947	28.75839	0	3.09E+08	2.33E+08	7.82E+07	2.02E+06
F5	Std	0	56304602	3758114	0	57283.56	312136.1	1.219474	0.800365	0	1.27E+08	4.60E+07	1.98E+07	493324.6
	Median	0	2.59E+08	8262852	0	183105.6	596049.1	27.10151	26.99842	0	1.74E+08	1.05E+08	2.07E+07	1.02E+06
	Rank	1	11	7	1	4	5	3	2	1	10	9	8	6
	Best	0	46464.74	6970.681	0	938.8109	48717.36	0.977938	8.54E-06	3.58E-07	507.6362	26750.47	5989.804	2141.712
	Mean	0	68489.01	11208.36	5.92E-10	1381.828	58859.66	1.935465	0.514373	2.97E-05	28714.05	40386.39	16268.49	4383,716
Dr.	Worst	0	82049.84	19109.51	1.18E-08	2097.894	69576.29	3.008589	1.009837	7.32E-05	73834.93	57281.56	36238.72	6265.461
F6	Std	0	8084.100	3492,957	2.65E-09	306.2587	6678.512	0.581749	0.271716	2.40E-05	33337.15	7314.923	7509,744	1211.925
	Median	0	69294.09	10235.48	6.26E-21	1336.636	60545.38	2.005124	0.499920	2.29E-05	4282.225	39492.66	14604.85	4137.833
	Rank	1	13	8	2	6	12	5	4	3	10	11	9	7
	Best	1.11E-07	78.62325	1.695744	3.71E-07	0.093912	78.35512	0.000896	0.000421	1.19E-06	0.062529	17.30172	28.48609	0.237973
	Mean	4.85E-06	128.8930	4.455180	2.28E-05	0.212582	126,8027	0.002608	0.001273	0.000120	48.12899	45.16218	57,49139	0.744428
	Worst	1.45E-05	164.4939	7.418298	6.18E-05	0.321107	190.1907	0.005587	0.002376	0.000444	145.4119	73.92218	105.5838	2.018721
F7	Std	4.43E-06	23.31702	1.627997	1.69E-05	0.061796	27.96786	0.001513	0.000521	0.000127	61.08620	14.61081	19.30663	0.526521
	Median	3.89E-06	133.3858	4.337502	2.30E-05	0.204908	128.5710	0.002161	0.001250	0.000110	0.276897	44.08116	55.23429	0.558128
	Rank	1	13	8	2	6	12	5	4	3	10	9	11	7
Sum	Rank	7	86	58	13	37	69	28	20	18	69	69	63	46
	n Rank	1	12.28571	7.571429	1.857143	5.285714	9.857143	4	2.857143	2.571429	9.857143	9.857143	9	6.571429
	l Rank	1	11	8	2	6	10	5	4	3	10	10	9	7
1014	. Mank		11	· ·	-	"	10	,	7	,	10	10		′

TABLE S2: Evaluation Results of Multimodal Functions

Funct	ions	SLIM(Ours)	GA	TLBO	DTBO	wo	GSA	WOA	GWO	AVOA	RSA	MPA	TSA	MVO
	Best	-7938.863	-3140.121	-4403.288	-12569.48	-4612.797	-3714.151	-5951.087	-8103.902	-9354.380	-5389.782	-7498.461	-6019.899	-4198.501
	Mean	-6458.315	-2150.899	-2938.149	-11325.88	-4254.124	-2268.220	-5675.364	-5788.895	-4498.090	-3281.282	-5032.127	-4751.935	-3215.843
F8	Worst	-4830.108	-1404.175	-1857.917	-9016.335	-3795.241	-1448.534	-5537.492	-3261.473	-2542.903	-2512.068	-4349.624	-4001.680	-2162.140
ro	Std	847.6299	462.8547	638.1169	1738.770	220.4794	608.6911	95.98664	1517.686	1897.661	698.8154	702.0326	519.0238	543.0032
	Median	-6188.488	-2072.765	-2782.106	-12569.48	-4260.360	-2054.562	-5650.149	-6243.927	-3746.626	-3147.867	-4953.468	-4800.228	-3221.808
	Rank	2	13	11	1	8	12	4	3	7	9	5	6	10
	Best	0	384.8384	200.4854	0	132.6723	200.9112	0	0	0	144.0608	241.7856	179.6995	142.0001
	Mean	0	436.7874	261.5908	0	161.5875	239.6619	117.6192	4.664703	0	336.1590	298.5239	230.3672	184.9141
F9	Worst	0	465.6116	340.3995	0	178.1662	269.9969	227.1292	23.49207	0	488.7731	373.9714	285.2772	215.4027
ry	Std	0	22.84458	30.63733	0	11.64388	19.26039	78.59633	6.588999	0	119.9843	31.01433	31.60392	19.89479
	Median	0	439.1332	262.8652	0	163.9701	243.2676	144.1084	2.84E-14	0	400.9514	304.1129	224.6173	189.9756
	Rank	1	11	8	1	4	7	3	2	1	10	9	6	5
	Best	8.88E-16	20.37834	14.49337	8.88E-16	8.213749	9.995406	19.95888	7.99E-15	8.88E-16	6.632463	18.62286	15.55104	10.28058
	Mean	8.88E-16	20.63556	15.82902	5.06E-14	8.982471	11.04405	19.96434	7.99E-15	1.24E-15	14.76386	19.54289	17.87889	12.31919
F10	Worst	8.88E-16	20.80208	17.24121	9.88E-13	9.713206	12.25252	19.96677	7.99E-15	4.44E-15	19.70104	20.18165	19.81305	14.11698
FIU	Std	0	0.136192	0.752241	2.21E-13	0.384555	0.638356	0.002327	0	1.09E-15	4.609261	0.448958	1.091447	0.938147
	Median	8.88E-16	20.68789	15.75594	8.88E-16	8.988021	10.87429	19.96407	7.99E-15	8.88E-16	16.60210	19.58212	18.09932	12.02113
	Rank	1	13	9	4	5	6	12	3	2	8	11	10	7
	Best	0	488.1832	75.48082	0	11.44262	519.6499	0	0	0	4.12352	235.8198	80.01944	20.11728
	Mean	0	620.2422	114.5474	0	14.11742	624.0461	0.005705	0.002241	0	290.6271	361.3782	169.3747	45.92941
F11	Worst	0	728.7562	155.3701	0	16.97734	747.1529	0.039457	0.019667	0	654.2128	552.8731	284.9638	67.23656
FII	Std	0	58.14499	20.97171	0	1.639622	63.74936	0.010914	0.005639	0	288.7377	77.60132	63.74201	14.48120
	Median	0	625.0893	114.6832	0	14.02399	615.3528	0	0	0	244.6637	349.3766	157.1596	41.68029
	Rank	1	10	6	1	4	11	3	2	1	8	9	7	5
	Best	3.40E-32	3.76E+08	182467.2	1.57E-32	11.11907	66963601	0.015782	0.006458	1.03E-07	9.541073	72185297	1062058	11.58386
	Mean	3.86E-32	6.00E+08	3034686	5.12E-12	15.63829	1.19E+08	0.138817	0.031885	1.55E-05	2.86E+08	2.13E+08	52243739	3698.421
F12	Worst	7.72E-21	8.7E+08	7811248	1.02E-10	29.54323	2.25E+08	0.669732	0.085876	4.66E-05	9.34E+08	3.43E+08	2.95E+08	35895.59
112	Std	1.73E-12	1.26E+08	2162895	2.29E-11	5.164794	40961786	0.154154	0.018226	1.41E-05	3.38E+08	71583423	69005885	8155.006
	Median	1.73E-32	6.17E+08	3555938	1.57E-32	14.32211	1.16E+08	0.095003	0.02648	1.07E-05	56165878	1.99E+08	20488896	680.2067
	Rank	1	13	8	2	6	10	5	4	3	12	11	9	7
	Best	1.05E-32	5.63E+08	1.05E+06	1.35E-32	92.45545	1.78E+08	1.049557	0.108381	2.58E-05	38.02565	2.15E+08	3.70E+07	66378.02
	Mean	6.28E-28	1.08E+09	1.89E+07	9.79E-11	20876.84	2.91E+08	1.522005	0.431396	0.000159	4.55E+08	4.69E+08	1.05E+08	1.16E+06
F13	Worst	8.47E-27	1.38E+09	4.13E+07	1.91E-09	62422.51	4.68E+08	1.819873	0.721779	0.000375	1.42E+09	9.14E+08	2.76E+08	3.56E+06
113	Std	1.77E-14	2.17E+08	1.14E+07	4.27E-10	19342.99	82244149	0.198957	0.181437	0.000113	5.38E+08	1.72E+08	5.64E+07	958360.9
	Median	8.26E-32	1.03E+09	1.49E+07	6.34E-28	13733.79	2.74E+08	1.567729	0.437856	0.000126	385970.8	4.72E+08	1.01E+08	996264.5
	Rank	1	13	8	2	6	10	5	4	3	11	12	9	7
Sum	Rank	7	73	50	11	33	56	32	18	17	58	57	47	41
Mean	Rank	1.166667	12.16667	8.333333	1.833333	5.5	9.333333	5.333333	3	2.833333	9.666667	9.5	7.833333	6.833333
Total	Rank	1	13	9	2	6	10	5	4	3	12	11	8	7

TABLE S3: Evaluation Results of Fixed-Dimensional Multimodal Functions

Func	tions	SLIM(Ours)	GA	TLBO	DTBO	WO	GSA	WOA	GWO	AVOA	RSA	MPA	TSA	MVO
	Best	0.998004	2.101129	0.998004	0.998004	0.998004	0.998004	0.998004	0.998004	0.998004	0.998004	0.998004	1.258715	1.041361
	Mean	0.998004	102.4173	9.11799	1.146516	0.998937	4.299516	0.998015	3.641636	7.250965	9.719971	12.79206	9.653150	7.347187
F14	Worst	0.998004	405.2031	17.37441	3.968250	1.015551	11.10997	0.998115	12.67051	12.67051	79.91903	35.72127	28.69522	18.30431
F14	Std	1.49E-12	123.4429	5.634068	0.664167	0.003916	2.961230	3.02E-05	4.014234	4.619824	17.10008	8.436467	7.765916	4.859278
	Median	0.998004	55.16649	7.873993	0.998004	0.998004	3.48017	0.998004	1.990054	7.856836	4.920634	12.19472	7.437787	6.187125
	Rank	1	13	9	4	3	6	2	5	7	11	12	10	8
	Best	0.000307	0.010107	0.009258	0.000307	0.000429	0.001664	0.000308	0.000307	0.000339	0.000667	0.001509	0.000785	0.000779
	Mean	0.000307	0.198659	0.065743	0.000310	0.000634	0.052038	0.000694	0.004374	0.000929	0.121847	0.016151	0.013766	0.020712
F15	Worst	0.000307	0.638512	0.129697	0.000358	0.000852	0.192500	0.001224	0.020363	0.001675	0.663833	0.080225	0.033322	0.114123
F 15	Std	2.40E-10	0.166631	0.040713	1.13E-05	0.000113	0.058961	0.000446	0.008205	0.000573	0.160896	0.018730	0.011111	0.026869
	Median	0.000307	0.150550	0.057178	0.000307	0.000637	0.031958	0.000409	0.000308	0.000830	0.061455	0.009916	0.011219	0.012846
	Rank	1	13	11	2	3	10	4	6	5	12	8	7	9
	Best	-1.031628	-0.512665	-1.031628	-1.031628	-1.031627	-0.995524	-1.031628	-1.031628	-1.031628	-1.031628	-1.031628	-1.031628	-1.031628
	Mean	-1.031628	1.152982	-1.013183	-1.031628	-1.031628	-0.183919	-1.031628	-1.031628	-1.031628	0.354101	-0.950206	-0.761882	-1.031478
D16	Worst	-1.031628	10.13712	-0.796682	-1.031628	-1.031512	0.976726	-1.031628	-1.031596	-1.031617	11.55265	-0.215448	2.104271	-1.029111
F16	Std	2.28E-16	2.317786	0.058396	1.77E-11	2.92E-05	0.442691	1.78E-10	7.18E-06	2.81E-06	2.835103	0.242787	0.702948	0.000562
	Median	-1.031628	0.545565	-1.030835	-1.031628	-1.031603	-0.126042	-1.031628	-1.0316284	-1.0316273	-0.577368	-1.031221	-0.991580	-1.0316228
	Rank	1	13	8	2	6	11	3	4	5	12	9	10	7
	Best	0.397887	0.487072	0.397887	0.397887	0.397897	0.405886	0.397887	0.397887	0.397888	0.398691	0.397887	0.397891	0.397887
	Mean	0.397887	1.507978	0.691497	0.397887	0.397973	0.909183	0.397887	0.397888	0.397972	0.725016	0.582485	0.621624	0.512006
F17	Worst	0.397887	4.545591	2.605443	0.397887	0.398103	2.986574	0.397889	0.397889	0.398279	2.159561	1.505474	1.675738	1.098858
F1/	Std	0	1.125269	0.582648	1.72E-11	7.42E-05	0.628445	2.89E-07	3.31E-07	0.000107	0.529513	0.280976	0.359983	0.210156
	Median	0.397887	1.170289	0.507903	0.397887	0.397945	0.622657	0.397887	0.397887	0.397913	0.495604	0.404889	0.447152	0.403133
	Rank	1	13	10	2	6	12	3	4	5	11	8	9	7
	Best	3	7.806245	3	3	3.000003	3.126392	3	3	3.000016	3	3	3.002059	3
	Mean	3	82.28232	11.82858	4.350001	3.000295	58.16920	3	3.000005	9.884609	30.41499	16.63737	21.06747	3.328216
F18	Worst	3	712.5911	30.26051	30	3.000843	209.0720	3	3.000025	32.68669	168.6706	85.22013	84.00261	8.407305
110	Std	3.59E-17	151.5299	12.30680	6.037383	0.000263	47.24831	1.59E-08	5.68E-06	12.24619	49.87639	21.33369	21.71547	1.209836
	Median	3	41.51896	4.473675	3	3.000227	41.42558	3	3.000003	3.000210	4.750919	4.481357	10.29079	3.000182
	Rank	1	13	8	6	4	12	2	3	7	11	9	10	5
	Best	-3.862782	-3.793981	-3.862589	-3.862780	-3.862775	-3.812490	-3.862782	-3.862781	-3.862663	-3.850615	-3.862625	-3.856883	-3.862589
	Mean	-3.862782	-3.137669	-3.732506	-3.862758	-3.862276	-3.394596	-3.860822	-3.862363	-3.724638	-3.436009	-3.759531	-3.698561	-3.835177
F19	Worst	-3.862782	-2.393020	-3.084785	-3.862708	-3.860893	-2.658340	-3.854900	-3.854900	-3.088922	-2.520454	-2.612884	-3.2555513	-3.763538
1 22	Std	2.24E-15	0.422992	0.173115	1.84E-05	0.000467	0.334917	0.003483	0.001757	0.227636	0.395811	0.278613	0.149061	0.025889
	Median	-3.862782	-2.981781	-3.779020	-3.862763	-3.862422	-3.481803	-3.862782	-3.862776	-3.769903	-3.559263	-3.846661	-3.755599	-3.838827
	Rank	1	13	8	2	4	12	5	3	9	11	7	10	6
	Best	-3.321995	-2.476570	-3.284312	-3.321995	-3.315847	-2.648721	-3.321993	-3.321994	-3.159048	-3.133589	-3.318064	-3.140460	-3.168183
	Mean	-3.321995	-1.606979	-2.565607	-3.321995	-3.294591	-1.482950	-3.155027	-3.270576	-2.799961	-2.208091	-2.919373	-2.165272	-2.737259
F20	Worst	-3.321995	-0.800500	-1.665721	-3.321994	-3.263076	-0.501667	-2.433371	-3.137362	-1.970422	-1.004817	-2.265119	-0.917902	-2.008987
	Std	1.92E-10	0.557494	0.448478	5.65E-08	0.015664	0.561892	0.226915	0.066069	0.384861	0.645788	0.274611	0.705843	0.283780
	Median	-3.321995	-1.616324	-2.568614	-3.321995	-3.296864	-1.560620	-3.202446	-3.321991	-2.898671	-2.090042	-2.878028	-2.194108	-2.756116
	Rank	1 10.15210	12	9	2	3	13	5	4	10.15277	10	6	11	8
	Best	-10.15319	-0.947665	-10.053949	-10.15319	-10.10288	-2.330235	-10.15318	-10.15318	-10.15277	-10.14568	-9.539045	-8.823285	-10.12089
	Mean	-10.15319	-0.474447 -0.231553	-2.938451	-9.898299	-9.922329	-0.686834	-7.489689	-9.647838	-10.10618	-3.752431 -0.312524	-3.107848	-2.294095	-4.321114
F21	Worst	-10.15319		-0.947575 2.573645	-5.055197	-9.584875 0.143849	-0.265156	-2.630461 2.783702	-5.100518	-9.926904 0.070842		-0.388097 2.392085	-0.667562 1.892052	-1.200437
	Std	2.08E-08 -10.15319	0.197117 -0.403357	-2.138653	1.139948 -10.15319	-9.953860	0.432882 -0.567232	-7.626722	1.555123	-10.13640	3.830217 -1.771617	-2.605009	-1.683282	2.760156 -2.675039
	Median Rank	1 1	13	-2.138033 10	4	3	12	6	-10.13308	2	8	-2.003009	-1.083282	7
<u> </u>	Best	-10.40294	-1.143041	-4.283729	-10.40294	-10.34770	-1.402907	-10.40292	-10.40289	-10.40286	-10.40215	-6.972991	-7.082730	-10.40293
	Mean	-10.40294	-0.615014	-4.283729 -2.268076	-10.40294	-10.34770	-0.819434	-8.168849	-10.40289	-10.40286	-5.095959	-3.145143	-2.176823	-4.779447
	Worst	-10.40294	-0.350415	-0.710863	-10.40293	-9.990956	-0.533436	-2.765893	-10.40273	-10.38348	-0.346282	-0.820175	-0.808249	-1.500046
F22	Std	6.30E-08	0.235759	0.997142	9.66E-07	0.105181	0.221840	2.851848	7.14E-05	0.024507	4.217945	1.602754	1.485080	3.326424
	Median	-10.40294	-0.550333	-2.208331	-10.40293	-10.21704	-0.764227	-10.40266	-10.40277	-10.39087	-4.556371	-2.671672	-1.653202	-2.748702
	Rank	1	13	10	2	5	12	6	3	4	7	9	11	8
	Best	-10.53640	-1.415171	-8.752157	-10.53640	-10.49096	-1.923687	-10.53639	-10.53637	-10.53598	-8.421391	-10.22721	-5.105723	-9.436129
	Mean	-10.53640	-0.764194	-3.189776	-10.53640	-10.31084	-1.086056	-7.447693	-9.997831	-10.47502	-1.812456	-3.03499	-2.784114	-4.228680
	Worst	-10.53640	-0.492842	-1.123462	-10.53640	-9.950617	-0.670071	-2.421728	-5.128480	-10.18443	-0.626480	-1.009167	-1.227906	-1.356675
F23	Std	4.05E-08	0.236910	2.104581	6.87E-07	0.157184	0.418815	3.618764	1.657244	0.081606	1.807091	2.137244	1.027362	2.503640
	Median	-10.53640	-0.706918	-2.348719	-10.53640	-10.35942	-0.898986	-10.53613	-10.53626	-10.50219	-1.245496	-2.276028	-2.400801	-2.840285
	Rank	1	13	8	2	4	12	6	5	3	11	9	10	7
Sum		10	129	91	28	41	112	42	42	54	104	86	99	64
	Rank	1	12.9	9.1	2.8	4.1	11.2	4.2	4.2	5.4	10.4	8.6	9.9	7.111111
	Rank	1	12.5	8	2.0	3	11	4	4	5	10.4	7	10	6
Local		•		l v	-			· · · · · · · · · · · · · · · · · · ·	L *	-	1.0	L '		

TABLE S4: Evaluation Results of IEEE CEC2017 Functions F1, F3-15

l CI	CC2017	SLIM (Ours)	GA	TLBO	DTBO	WO	GSA	WOA	GWO	AVOA	RSA	MPA	TSA	MVO
	Best	100	1.27E+10	2.64E+09	204.4230	2.91E+08	4.25E+09	9688.367	3190.032	2.33E+08	8.44E+08	1.03E+09	6.77E+08	1.92E+09
	Mean	100.0037	1.81E+10	8.25E+09	2.42E+08	5.66E+08	1.36E+10	43492.46	8251.137	4.13E+09	1.44E+10	3.35E+09	3.01E+09	4.54E+09
	Worst	100.0325	2.49E+10	1.41E+10	1.89E+09	1.04E+09	2.01E+10	139725.9	13450.16	9.98E+09	2.13E+10	7.42E+09	6.83E+09	7.85E+09
F1	Std	0.008589	3.56E+09	3.56E+09	5.92E+08	2.12E+08	4.36E+09	34211.79	3426.593	2.48E+09	5.20E+09	1.92E+09	1.96E+09	1.88E+09
	Median	100.0002	1.81E+10	8.62E+09	4579.134	4.91E+08	1.47E+10	32502.08	7949.481	3.44E+09	1.56E+10	2.99E+09	2.58E+09	3.91E+09
	Rank	1	13	10	4	5	11	3	2	8	12	7	6	9
	Best	300	59113.45	9461.451	318.1151	3333.072	24792.29	304.4069	303.1062	5028.316	18746.21	28303.40	11796.38	13605.47
	Mean	300	7.56E+06	49948.04	2794.459	6084.239	2.12E+06	770.3236	2262.617	13148.29	47384.33	50560.65	39308.86	40427.59
F22	Worst	300	1.18E+08	97963.37	8768.471	9480.158	3.06E+06	4381.002	8178.141	21618.85	105849.1	81935.83	99463.81	94111.51
F3	Std	0	2.26E+07	25061.08	2283.564	1640.940	6.87E+06	965.4251	2386.754	5082.816	21603.17	16316.68	28235.39	21491.01
	Median	300	502220.2	42885.30	1942.984	6122.174	68178.21	413.1415	1191.075	12586.67	42905.71	48216.36	27580.71	40284.02
	Rank	1	13	10	4	5	12	2	3	6	9	11	7	8
	Best	400.0875	756.5428	588.4670	400.1595	437.5420	876.6112	406.6627	402.3008	485.0768	626.5882	458.3507	423.4799	468.9709
	Mean	405.4693	3349.723	1614.048	436.2634	473.0659	2557.092	424.8377	420.8356	1038.245	2368.264	764.2666	648.7659	854.3521
F4	Worst	407.8687	7251.289	3797.165	494.2800	503.3187	6804.745	490.4231	479.4110	2679.580	6439.764	1426.494	1182.615	1777.489
1.4	Std	2.559662	1826.845	763.1628	33.23051	18.19437	1209.381	29.52068	23.81766	481.5181	1925.575	275.4506	182.8586	361.9497
	Median	406.6921	2865.113	1616.232	428.7633	474.8562	2220.971	408.0421	407.8172	976.8222	1282.716	638.3888	593.2958	724.2688
	Rank	1	13	10	4	5	12	3	2	9	11	7	6	8
	Best	505.9342	588.6722	561.2297	514.2496	584.2658	608.4342	511.3937	505.1669	522.3001	589.5887	581.9217	586.4873	547.5933
	Mean	515.9873	674.5490	596.5718	551.5432	545.5465	649.5883	529.7106	516.1313	582.8276	599.9794	583.5096	564.2245	574.1770
F5	Worst	528.8588	726.9212	636.8965	594.5274	558.7818	692.4634	554.6272	581.6588	616.8316	661.8914	631.0520	629.9846	605.6160
	Std	5.916559	32.74667	21.18589	19.43645	7.700472	24.84347	12.20282	7.645171	24.58211	31.66729	26.42915	23.35831	18.93120
	Median	514.9118	676.0080	594.0754	550.5779	544.9059	655.0066	525.6239	515.7626	583.7682	595.1261	583.8449	558.2233	570.9014
	Rank	1	13	10	5	4	12	3	2	8	11	621,0000	6	622 2170
	Best	600	671.1666	629.8350	606.3581	611.8569	647.3756	601.8657	600.0634	625.2837	631.3945	621.9098	619.2784	623.3179
	Mean	600.8818	705.4686	658.7701	630.8918	619.7115	672.6082	612.5968	601.2630	647.6402	676.8939	649.0311	646.8163	637.5159
F6	Worst Std	601.9962	731.9220 16.59312	709.5006 16.34765	649.0595 10.98085	625.7598 2.929474	694.7597 13.64859	650.9605	604.0725 1.217879	686.7138	717.8917 24.35930	682.1448	670.8850	650.3282
		0.660834						13.01749	601.0452	14.56082		15.87863	15.71918	7.739687
	Median Rank	600.7772	707.2221 13	655.5775 10	631.1724	619.6871	673.7022 11	607.1893	2	646.2126 8	680.7191 12	646.4565	649.2722	638.4443
-	Best	712.4407	1000.335	790.6003	760.4647	742.8571	895.0422	720.9857	713.5826	774.3911	754.8983	794.2987	740.0736	737.7722
	Mean	712.4407 731.2051	1229.873	837.5036	786.7747	763.1733	1050.972	749.1089	733.3777	818.3293	1031.497	899.5162	828.6306	772.4694
	Worst	745.0437	1356.671	906.3227	812.3742	775.9102	1166.122	802.3250	754.1842	850.8865	1356.833	1062.564	903.7542	809.4977
F7	Std	8.267754	108.9583	32.44209	15.20125	7.662889	74.29233	20.10698	11.20568	26.06111	222.3642	67.87601	46.56896	19.74777
	Median	731.1467	1263.117	832.2375	786.9451	764.3622	1032.595	743.4408	731.2830	824.8339	1069.966	896.2424	832.5518	778.1956
	Rank	1	13	9	6	4	12	3	2	7	11	10	8	5
	Best	805.9697	902.2077	838.6110	812.7232	829.4792	892.2879	810.2949	805.4629	830.5109	827.5776	826.7661	822,4106	817.1971
	Mean	811.6908	947.6045	874.6842	825.1430	836.7712	922.7039	829.2462	816.7258	859.5798	890.4903	871.5855	856.8187	847.3238
	Worst	815.9194	994.8969	904.3993	837.8098	846.5649	944.2576	857.7463	828.5758	883.2863	944.5663	915.2670	897.2271	871.2717
F8	Std	3.110942	21.17952	16.04682	6.588697	4.086373	16.47357	13.23074	7.644122	15.67515	42.17564	24.68951	19.26057	12.80849
	Median	812.4373	949.6814	873.7321	824.5422	836.6125	927.4065	825.6624	817.2970	860.6272	895.0468	868.1479	852.8728	846.4858
	Rank	1	13	10	3	5	12	4	2	8	11	9	7	6
	Best	900	4149.901	1256.994	1108.308	937.7673	1905.626	901.3649	900.1243	1110.779	1061.599	1734.585	1135.726	1000.074
	Mean	908.2654	6305.166	1893.727	1318.405	980.4373	3375.268	1001.275	927.0847	1663.738	3345.918	2451.965	1841.928	1263.954
F0														
F9	Worst	932.7962	8521.633	2698.708	1568.935	1039.719	4971.737	1585.317	972.2555	2507.122	5836.716	3639.967	4206.986	2435.465
1.9	Worst Std	932.7962 10.12445	8521.633 1197.948	2698.708 446.0171				1585.317 142.5873	972.2555 29.72119	2507.122 327.4182	5836.716 1378.836	3639.967 523.7769	4206.986 738.3814	2435.465 309.6381
17					1568.935	1039.719	4971.737							
17	Std	10.12445	1197.948	446.0171	1568.935 136.7297	1039.719 23.78228	4971.737 777.5579	142.5873	29.72119	327.4182 1584.479 7	1378.836	523.7769	738.3814 1651.052 8	309.6381
13	Std Median	10.12445 904.3668 1 1349.221	1197.948 6022.168 13 3526.124	446.0171 1893.924 9 2676.969	1568.935 136.7297 1343.643 6 1137.055	1039.719 23.78228 982.4396 3 2123.127	4971.737 777.5579 3443.139 12 2733.703	142.5873 969.6820	29.72119 911.1474	327.4182 1584.479 7 2002.830	1378.836 3409.628 11 2285.731	523.7769 2421.412 10 2064.026	738.3814 1651.052 8 1859.437	309.6381 1193.759 5 1828.649
	Std Median Rank Best Mean	10.12445 904.3668 1 1349.221 1633.282	1197.948 6022.168 13 3526.124 3911.556	446.0171 1893.924 9 2676.969 3056.869	1568.935 136.7297 1343.643 6 1137.055 1828.845	1039.719 23.78228 982.4396 3 2123.127 2350.167	4971.737 777.5579 3443.139 12 2733.703 3488.636	142.5873 969.6820 4 1388.666 1838.561	29.72119 911.1474 2 1131.715 1568.186	327.4182 1584.479 7 2002.830 2705.358	1378.836 3409.628 11 2285.731 2799.348	523.7769 2421.412 10 2064.026 2654.317	738.3814 1651.052 8 1859.437 2578.917	309.6381 1193.759 5 1828.649 2629.356
	Std Median Rank Best Mean Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896	1197.948 6022.168 13 3526.124 3911.556 4347.014	446.0171 1893.924 9 2676.969 3056.869 3708.255	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634	142.5873 969.6820 4 1388.666 1838.561 2372.269	29.72119 911.1474 2 1131.715 1568.186 2233.700	327.4182 1584.479 7 2002.830 2705.358 3089.348	1378.836 3409.628 11 2285.731 2799.348 3298.184	523.7769 2421.412 10 2064.026 2654.317 3054.170	738.3814 1651.052 8 1859.437 2578.917 3069.275	309.6381 1193.759 5 1828.649 2629.356 3070.204
F10	Std Median Rank Best Mean Worst Std	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034
	Std Median Rank Best Mean Worst Std Median	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887
	Std Median Rank Best Mean Worst Std Median Rank	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887
	Std Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744
	Median Rank Best Mean Worst Std Median Rank Best Median Rank Best Mean	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002	4971.737 7777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330
	Std Median Rank Best Mean Worst Std Median Rank Best Median Rank Best Mean Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 11 1726.748 6066.416 19291.57 4382.583	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23	142.5873 969.6820 4 1388.666 1388.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 9 1257.142 3772.458 23594.23 5055.359	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 8 1411.834 6285.993 29026.96 7502.651	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926	4971.737 777.3579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 15142.74	142.5873 969.6820 4 1388.666 1388.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 8 1411.834 6285.993 29026.96 7502.651 2712.171	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Rank	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 10
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Worst Std Median Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4	29.72119 911.1474 2 1131.715 1568.186 2233.700 1471.290 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best Mean Morst Std Median Rank	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 178.93589 1156.922 4 41557.35 1.79E+06	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06	4971.737 777.3579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274402.3 15142.74 12 4.28E+08 2.06E+09 5.79E+09	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4 41557.35 1.79E+06	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 207875.9 45062.57 11470.69 11 857507.2 1.59E.409 5.47E.409	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best Mean Morst Std Median Rank	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 8.00E+08	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 967325.8	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5.25E+06	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 1.37E+09	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4 41557.35 1.79E+06	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 2.50E+08	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E409 1.67E409	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 10 516360.4 6.56E+07 3.49E+08 9.37E+07
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Std Median Rank Std Std Std	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 6444357.5 3.01E+06 5.25E+06 1.41E+06 2.38E+06	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4 41557.35 1.79E+06	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 207875.9 45062.57 11470.69 11 857507.2 1.59E.409 5.47E.409	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Mean Worst Std Median Mean Worst Std Median Rank Best Mean Median Median Men Morst Std Median Men Morst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5.25E+06	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 1.85E+09 12	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 1.90E+06	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.67E+09	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 1.295E+08	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Mean Worst Std Median Rank Best Median Rank Best Median Rank Best Mean	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 967325.8 1.73E+06 3	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5.38E+06 5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Std Median Rank Best Median Rank Best Median Rank Best Mean Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 967325.8 1.73E+06 3 1931.536	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 2.38E+06 5 3796.322	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 1.37E+09 1.85E+09 12 2.09E+06	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1155.922 4 41557.35 1.79E+06 4.19E+06 1.90E+06 4 2271.587	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 1.12E+09 11 2006.323	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Mean Worst Std Median Rank Best Mean Median Rank Best Mean Worst Median Rank Mesn Worst Median Mean Morst Mean Mean	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 2.36E+08 10 6061.104 3.19E+07	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 173E+06 3 1931.536 10481.10	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5 3796.322 15748.25	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 1.2 2.09E+06 2.37E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.90E+06 4 2271.587 16768.12	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 6.08E+06 1.40E+06 1.00E+06 2 3459.504	327.4182 1584.479 7 2002.830 2705.358 2705.358 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 11 2006.323 2.23E+08	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 2.89E+07 7 2929.182 2.41E+06	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 9 9 3110.175 2.23E+07	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Mean Worst Std Median Rank Best Median Rank Best Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Worst Std Median Worst Std Median Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 1220.635 1498.977 7432.162	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 1.19E+09	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 10 6061.104 3.19E+07 2.74E+08	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 2.9474.73 1.62E+06 2.95E+06 967325.8 1.73E+06 3 1931.536	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5 3796.322 15748.25 38030.86	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 12 2.09E+06 2.37E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4 2271.587 16768.12	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 11 2006.323 2.23E+08 2.48E+09	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 1.26E+08 2.41E+06 1.91E+07	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 9 3110.175 2.23E+07 4.29E+08	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06
F10	Std Median Rank Best Wean Worst Std Median Rank Best Mean Worst Std Median Median Rank Best Median Rank Best Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Rank Best Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 1.19E+09 3.46E+08 3.17E+08 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 2.06E+09 5.79E+09 1.37E+09 1.85E+09 12 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4 2271.587 16768.12 44658.78 12773.24 10659.11 6	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 207875.9 1.59E+09 5.47E+09 1.12E+09 1.1 2006.323 2.23E+08 2.48E+09 5.47E+08 3.94E+07 11	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 9.3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7
F10	Std Median Rank Best Mean Worst Std Median Rank Best Mean Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 3.17E+08 13 3.17E+08 13 68790.33	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 11855.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 1.85E+09 12 2.09E+06 2.37E+08 1.76E+08 1.76E+08 12 1584.943	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4 41557.35 1.79E+06 1.29E+06 1.29E+06 4.2271.587 16768.12 44658.78 12773.24 10659.11 6	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 1.12E+09 1.12E+09 1.12E+09 1.12E+09 1.12E+09 5.47E+08 3.94E+07 11 1582.599	523.7769 2421.412 10 2064.026 2654.317 3054.170 354.170 3554.173 3554.170 351.1834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 35043.91 8 1480.574	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9 3110.175 2.23E+07 84348.22 9	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7
F10	Std Median Rank Best Mean Worst Std	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 125714.95 13 1.17E+09 2.49E+09 4.24E+09 4.24E+09 13 2.90E+07 4.01E+08 1.19E+09 3.46E+08 3.17E+08 13	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 2.38E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 1.37E+09 1.37E+09 1.2 2.09E+06 2.37E+08 1.08E+09 1.48E+08 1.76E+08 1.76E+08 1.584.943 425851.5	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 78.93589 1156.922 4 41557.35 1.79E+06 4.19E+06 1.90E+06 4 2271.587 16768.12 44658.78 12773.24 10659.11 6	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 1.47E+09 1.12E+09 1.12E+09 1.12E+09 1.15E+07 11 2006.323 2.23E+08 2.48E+09 1.47E+08	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8 1480.574	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9 3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 10 516360.4 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45
F10 F11 F12	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 2.90E+09 4.24E+09 9.90E+04 4.01E+08 1.19E+09 3.46E+08 1.19E+09 3.46E+08 1.19E+09 3.47E+08 1.19E+09 3.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+09 3.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08 1.17E+08	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1931.536 10481.10 19520.14 5581.207 1476.925 1476.925 1476.925 3232.468 7218.232	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 6444357.5 3.01E+06 5.25E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 1.2 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08 12 1584.943 425851.5 2.70E+06	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4.2271.587 16768.12 44658.78 12773.24 16659.11 6 1451.737 1495.034 1583.950	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 206.323 1.12E+49 11 2006.323 2.23E+08 2.48E+09 5.47E+09 1.17E+09	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8 1480.574 11271.51 28786.32	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9 3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9 1483.516 2918.635 9054.734	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14
F10	Std Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 1220.635 1220.635 123.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 3.17E+08 13 68790.33 1.01E+07 1.38E+07	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389 10790.74 3016.346	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 2.9474.73 1.62E+06 2.95E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3332.468 7218.232 1960.337	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426	4971.737 777.5579 3443.139 12 2733.703 3488.633 4277.9706 3516.043 12 2567.303 39055.64 274602.3 15142.74 12 2.06E+09 5.79E+09 1.37E+09 1.85E+09 12 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08 12 1584.943 425851.5 176E+06 881142.7	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4 2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 2.50E+08 3089.348 1.51E+0	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 11 2006.323 2.23E+08 2.48E+09 5.47E+08 3.94E+07 11 1582.599 1.15E+07	523.7769 2421.412 10 2064.026 2654.317 3054.170 354.170 3554.173 3554.170 354.170 354.170 354.170 3521.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8 1480.574 11271.51 28786.32	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 9 3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9 1483.516 2918.635	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14
F10 F11 F12	Std Median Rank Best Mean Worst Std Median Rank	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 3.17E+08 13 1.19E+09 3.46E+08 3.17E+08 13 1.19E+09 3.46E+08 3.17E+08	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389 10790.74 40645.383	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3232.468 7218.232 1960.337 2400.868	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 2.38E+06 5 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 1.37E+09 1.37E+09 1.37E+09 1.209E+06 2.37E+08 1.08E+09 12 12 1584.943 425851.5 2.70E+06 881142.7	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1345.958 78.93589 1156.922 4 41557.35 1.79E+06 1.29E+06 1.29E+06 4.2271.587 16768.12 244658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 1483.950 1489.836	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 4 1477.801 3325.241 6095.948 1981.135 2136.982	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 4.17E+06 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077	1378.836 3409.628 11 2285.731 2799.348 3298.184 2240.8775 2799.639 10 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 1.67E+09 1.12E+09 1.12E+09 1.12E+09 1.15E+07 1.476.831 1.59E+08 3.94E+07 11 1582.599 1.15E+07 1.62E+08	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 35043.91 8 1480.574 11271.51 28786.32 29913.498 9818.195	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9 3110.175 2.23E+07 84348.22 9 1483.516 2918.635 9054.734 1858.804 2367.834	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 10 516360.4 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286
F10 F11 F12	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 4.24E+09 13 2.90E+08 1.19E+09 3.46E+08 1.19E+09 3.46E+08 1.19E+09	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979-9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1732.58 1732.58 1732.58 1732.58 1732.61 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3232.468 7218.232 1960.337 2400.868	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3.01E+06 5.25E+06 5.25E+06 5.38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 1.37E+09 1.37E+09 1.2 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08 12 1584.943 425851.5 2.70E+06 881142.7	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089 1489.836 2	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.42E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 2006.323 2.23E+08 2.48E+09 5.47E+09 5.47E+09 1.12E+09 11 1582.599 1.15E+07 1.15E+07 1.15E+07 1.62E+08 3.83E+07 6427.265	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8 1480.574 11271.51 28786.32 9913.498 9818.195	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 233.549 4598.233 13787.56 2.11E+08 1.27E+09 2.95E+08 1.10E+08 9 3110.175 2.23E+07 4.29E+08 9.57E+08 9.57E+0	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286
F10 F11 F12	Std Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 1220.635 1220.635 14375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1 11551.119	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 3.17E+08 13 68790.33 1.01E+07 4.73E+06 12 28652.80	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7 4764.065	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3232.468 7218.232 1960.337 2400.868 5	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 1.41E+06 5.3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321 3 1893.448	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 2.06E+09 5.79E+09 1.37E+09 1.37E+09 1.85E+09 12 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08 12 1584.943 425851.5 2.70E+06 881142.7 10434.16 11 6027.586	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089 1489.836 2 1567.376	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6 1580.283	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E409 5.47E409 1.12E409 1.12E409 1.12E409 1.15E407 11 1582.599 1.15E407 1627.265 13 7763.748	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 35043.91 8 1480.574 11271.51 28786.32 9913.498 9818.195 10 2116.238	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 9 3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9 1483.516 2918.635 9054.734 1858.804 2367.834 4	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E.407 3.49E+08 9.37E+07 62077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286 9 4786.508
F10 F11 F12	Std Median Rank Best Mean Worst	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1 1551.119 1859.481	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 3.17E+08 13 68790.33 1.01E+07 5.11E+07 5.11E+07 5.11E+07 5.13E+07	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 967325.8 1.73E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3232.468 7218.232 1960.337 2400.868 5	103.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 2.38E+06 5 53796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321 3 3875.787	4971.737 777.5579 3443.139 12 2733.703 3448.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 1.37E+09 1.37E+09 1.37E+09 1.2 2.09E+06 2.37E+08 1.08E+09 12 12 1584.943 425851.5 2.70E+06 881142.7 10434.16 11 10434.16 11 6027.586 1.84E+07	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1345.958 78.93589 1156,922 4 41557.35 1.79E+06 4.19E+06 1.29E+06 4.2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 1489.836 2 1567.376 2634.585	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 10121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 25.00E+08 4.10E+07 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 1.12E+09 1.12E+09 1.12E+09 1.12E+09 1.12E+09 1.1582.599 1.15E+07 1.582.599 1.15E+07 1.62E+08 3.94E+07 1.1 1582.599 1.15E+07 1.62E+08 1.83E+07 6427.265 13 7763.748	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 35043.91 8 1480.574 11271.51 28786.32 9913.498 9818.195 10 24116.238 14639.79	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 9 3110.175 2.23E+07 84348.22 9 1483.516 2918.635 9054.734 1858.804 2367.834 4 1554.371 7800.267	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286 9
F10 F11 F12	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1 1551.119 1859.481 1859.481 2684.168	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 4.24E+09 1.319E+09 3.46E+08 1.19E+09 3.46E+08 1.19E+09 1.31E+08 1.31E+08	446.0171 1893.924 9 2676.969 3056.869 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 2.13979.9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7 4764.065 50066.83 133458.5	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1.73E+06 1.73E+06 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	103.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321 3 1893.448 3875.787 6738.127	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 12 4.28E+08 1.37E+09 1.37E+09 1.2 4.28E+08 1.42.48E+08 1.2 4.28E+08 1.37E+09 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.38E+08 1.36E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.99E+06 4.90E+06 4 2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089 1489.836 2 1567.376 2634.585 8159.413	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 110121.50 1.29E+06 6.08E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6 1580.283 3459.229 6603.587	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 1.51E+08 7.80E+08 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077 8 4718.168 28725.34 177264.0	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 11 2006.323 2.23E+08 2.48E+09 5.47E+08 3.83E+07 1.152E+07 1.62E+08 3.83E+07 1.62E+08 3.83E+07 1.62E+08 3.83E+07 1.62E+08 1.7663.748 1.63E+07 2.48E+08	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 3.5043.91 8 1480.574 11271.51 28786.32 9913.498 9818.195 10 2116.238 14639.79 39499.43	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 9.57E+07 4.29E+08 9.57E+07 84348.22 9.57E+07 84348.	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286 9 4786.508 45940.48 126166.1
F10 F11 F12 F13	Std Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1 1551.119 1859.481 1859.481 1859.481 1859.481 1859.481 1859.481 2684.168 285.0199	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 9.90E+08 2.35E+09 13 2.90E+07 4.01E+08 1.19E+09 3.46E+08 3.17E+08 13 68790.33 1.01E+07 4.73E+06 12 28652.80 2.61E+07 1.31E+08	446.0171 1893.924 9 2676.969 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 8.00E+08 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 213979.9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7 4764.065 50066.83 133458.5	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1931.536 10481.10 19520.14 5581.207 11431.37 2 1476.925 3232.468 7218.232 1960.337 2400.868 5 1567.518 4980.485 5 1567.518 1835.44 1992.051	1039.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321 3 1893.448 3875.787 6738.127	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 2.06E+09 5.79E+09 1.85E+09 12 2.09E+06 2.37E+08 1.08E+09 2.48E+08 1.76E+08 12 1584.943 425851.5 2.70E+06 881142.7 10434.16 11 6027.586 1.84E+07 1.98E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.29E+06 4.29E+06 4.29T1.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089 1489.836 2 1567.376 2634.585 8159.413	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 2 110121.50 1.29E+06 6.08E+06 1.42E+06 1.00E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6 1580.283 3459.229 6 1580.283	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 4.17E+06 1.51E+08 7.80E+08 2.50E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077 8 4718.168 28725.34 4718.168 28725.34 4717264.0 36711.26	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 2006.323 1.39E+09 1.12E+09 11 2006.323 2.23E+08 2.48E+09 5.47E+08 3.94E+07 11 1582.599 1.15E+07 1.62E+08 3.83E+07 6427.265 13 7763.748 1.63E+07 2.48E+08 5.69E+07	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 8.85E+07 4.33E+08 1.26E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+08 35043.91 8 1480.574 11271.51 8 1480.574 11271.51 28786.32 9913.498 9818.195 10 2116.238 14639.79 39499.43 10448.95	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 2.95E+08 9.3110.175 2.23E+07 4.29E+08 9.57E+07 84348.22 9 1483.516 2918.635 9054.734 1858.804 2367.834 4 1554.371 7800.267 27542.27 8509.565	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 516360.4 6.56E+07 3.49E+08 9.37E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286 9 4786.508 45940.48 126166.1 37495.01
F10 F11 F12 F13	Std Median Rank Best Mean Worst Std Median Rank Best Mean Worst Std Median Median Rank Best Mean Worst Std Median Rank Best	10.12445 904.3668 1 1349.221 1633.282 1905.896 179.6307 1625.200 2 1102.101 1119.961 1158.743 13.85671 1117.916 1 2627.026 4585.208 6691.075 1220.635 4375.194 1 1498.977 7432.162 17322.12 3484.355 7115.962 1 1431.668 1480.125 1528.015 24.03379 1478.243 1 1551.119 1859.481 1859.481 2684.168	1197.948 6022.168 13 3526.124 3911.556 4347.014 234.8325 3956.379 13 3468.932 47675.93 217512.7 58200.51 25714.95 13 1.17E+09 2.49E+09 4.24E+09 4.24E+09 1.319E+09 3.46E+08 1.19E+09 3.46E+08 1.19E+09 1.31E+08 1.31E+08	446.0171 1893.924 9 2676.969 3056.869 3056.869 3708.255 264.4264 3025.160 11 1726.748 6066.416 19291.57 4382.583 4991.951 8 1.89E+06 5.61E+08 3.42E+09 2.36E+08 10 6061.104 3.19E+07 2.74E+08 7.55E+07 2.13979.9 10 1501.829 4950.389 10790.74 3016.346 4645.383 7 4764.065 50066.83 133458.5	1568.935 136.7297 1343.643 6 1137.055 1828.845 2104.207 202.3913 1885.477 3 1125.611 1194.027 1373.512 86.36352 1156.365 5 29474.73 1.62E+06 2.95E+06 3 1.73E+06 1.73E+06 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	103.719 23.78228 982.4396 3 2123.127 2350.167 2608.125 151.4347 2359.998 5 1148.002 1180.949 1233.779 23.21626 1177.926 3 644357.5 3.01E+06 5.25E+06 5 3796.322 15748.25 38030.86 9043.241 14378.55 5 1505.602 1624.899 1893.551 106.1426 1584.321 3 1893.448 3875.787 6738.127	4971.737 777.5579 3443.139 12 2733.703 3488.636 3949.634 277.9706 3516.043 12 2567.303 39055.64 274602.3 62697.23 15142.74 12 4.28E+08 2.06E+09 5.79E+09 12 4.28E+08 1.37E+09 1.37E+09 1.2 4.28E+08 1.42.48E+08 1.2 4.28E+08 1.37E+09 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.37E+08 1.38E+08 1.36E+08	142.5873 969.6820 4 1388.666 1838.561 2372.269 273.6980 1827.433 4 1113.926 1187.454 1345.958 1156.922 4 41557.35 1.79E+06 4.19E+06 4.99E+06 4.90E+06 4 2271.587 16768.12 44658.78 12773.24 10659.11 6 1451.737 1495.034 1583.950 29.37089 1489.836 2 1567.376 2634.585 8159.413	29.72119 911.1474 2 1131.715 1568.186 2233.700 347.1743 1471.290 1 1107.106 1148.936 1268.639 44.17845 1133.402 2 110121.50 1.29E+06 6.08E+06 2 3459.504 12369.98 33270.31 7052.382 10181.08 4 1477.801 3325.241 6095.948 1981.135 2136.982 6 1580.283 3459.229 6603.587	327.4182 1584.479 7 2002.830 2705.358 3089.348 275.9949 2725.149 9 1257.142 3772.458 23594.23 5055.359 1692.330 6 1.51E+08 7.80E+08 4.17E+06 1.51E+08 7.80E+08 4.10E+07 8 2520.406 12158.44 33961.86 10545.61 7840.778 3 1621.617 8581.799 26577.05 6400.788 8298.077 8 4718.168 28725.34 177264.0	1378.836 3409.628 11 2285.731 2799.348 3298.184 240.8775 2799.639 10 1839.759 25428.01 207875.9 45062.57 11470.69 11 857507.2 1.59E+09 5.47E+09 1.12E+09 11 2006.323 2.23E+08 2.48E+09 5.47E+08 3.83E+07 1.152E+07 1.62E+08 3.83E+07 1.62E+08 3.83E+07 1.62E+08 3.83E+07 1.62E+08 1.7663.748 1.63E+07 2.48E+08	523.7769 2421.412 10 2064.026 2654.317 3054.170 251.0655 2693.269 8 1411.834 6285.993 29026.96 7502.651 2712.171 9 3.52E+06 8.85E+07 4.33E+08 2.89E+07 7 2929.182 2.41E+06 1.91E+07 5.46E+06 3.5043.91 8 1480.574 11271.51 28786.32 9913.498 9818.195 10 2116.238 14639.79 39499.43	738.3814 1651.052 8 1859.437 2578.917 3069.275 318.6558 2619.887 6 1233.549 4598.233 13787.56 4334.433 2306.485 7 3.40E+06 2.11E+08 1.27E+09 9.57E+07 4.29E+08 9.57E+07 84348.22 9.57E+07 84348.	309.6381 1193.759 5 1828.649 2629.356 3070.204 278.8034 2650.887 7 1878.744 6408.330 24975.68 5894.790 5051.850 10 6.56E+07 3.49E+08 9.37E+07 2.64E+07 6 2077.072 63944.08 1.04E+06 230756.8 9860.833 7 1758.581 10139.45 27510.14 8187.300 6814.286 9 4786.508 45940.48 126166.1

TABLE S5: Evaluation Results of IEEE CEC2017, F16-F30

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CEC		SLIM(Ours)	GA 2042 142	TLBO	DTBO	WO	GSA	WOA	GWO	AVOA 1825.583	RSA	MPA	TSA	MVO
	Best	1602.029 1683.013	2042.143 2727.119	1939.488 2201.640	1735.782 1915.052	1651.211 1783.078	2159.974 2558.842	1633.329 1779.489	1628.767 1790.267	2095.081	2001.652 2470.232	1872.105 2171.866	1883.341 2191.715	1775.967 2064.718
	Mean Worst	1847.833	3293.127	2455.827	2115.462	1867.114	2872.530	1991.124	1991.319	2392.645	2833.971	2705.048	2551.688	2307.363
F16	Std	83.69463	286.0399	141.0687	94.23818	63.74776	207.0761	109.6009	118.5015	150.7663	273.4834	197.8917	214.8621	168.8730
	Median	1657.193	2692.483	2201.666	1920.723	1785.017	2593.754	1756.409	1749.671	2075.580	2510.237	2159.596	2178.379	2102.651
	Rank	1	13	10	5	3	12	2	4	7	11	8	9	6
	Best	1709.119	2117.615	1786.752	1743.149	1744.099	1871.129	1730.899	1738.765	1766.484	1784.672	1769.915	1763.704	1758.339
	Mean	1739.258	2503.755	1927.507	1771.391	1769.091	2247.315	1779.332	1768.611	1840.346	2099.527	1992.910	1940.926	1877.021
F17	Worst	1754.275	2879.627	2251.935	1830.166	1793.075	2628.293	1880.779	1858.367	2017.858	2446.441	2280.436	2237.555	2136.039
117	Std	11.90406	220.3576	123.6762	18.43479	15.17561	211.0407	41.28105	29.54163	86.17080	229.8419	158.1143	138.8919	121.0284
	Median	1741.931	2556.809	1902.857	1771.526	1772.686	2177.256	1766.873	1754.978	1802.197	2158.176	1943.593	1941.104	1826.366
	Rank	1	13	8	4	3	12	5	2	6	11	10	9	7
	Best	1852.994	4.92E+07	20450.14	2727.781	3266.764	8.14E+07	2104.776	3594.891	2682.031	6598.891	2752.295	9131.607	6373.064
	Mean	5246.319	1.12E+09	3.74E+08	14352.58 34296.76	45492.85	1.31E+09 5.34E+09	19664.19	22042.43	3.63E+06	3.29E+08 1.77E+09	52507.32	1.46E+08	9.22E+07
F18	Worst Std	7484.057 1169.189	3.16E+09 1.04E+09	2.59E+09 6.10E+08	11317.64	135881.3 37983.98	1.51E+09	47238.25 14258.59	40157.13 13651.09	7.23E+07 1.61E+07	4.86E+08	478510.7 102698.2	1.28E+09 2.96E+08	3.92E+08 1.50E+08
	Median	5855.857	6.73E+08	8.39E+07	9748.051	28452.51	7.89E+08	23003.86	18685.09	20342.03	1.16E+08	23067.77	6.74E+06	8.42E+06
	Rank	1	12	11	2	5	13	3	4	7	10	6	9	8
	Best	1909.301	164768.9	3656.314	1950.894	2226.784	7557.127	2139.901	1916.888	2400.114	3166.557	2162.963	2095.238	5647.459
	Mean	2289.244	1.18E+08	3.08E+07	9157.068	3076.219	4.23E+07	17008.06	6433.968	2.21E+06	1.00E+07	39690.84	501646.0	455170.2
F19	Worst	3628.730	1.04E+09	2.67E+08	20257.88	6758.424	2.45E+08	29062.72	16282.68	4.27E+07	8.12E+07	425451.9	4.48E+06	4.02E+06
1119	Std	451.7916	2.32E+08	6.62E+07	6426.164	1077.168	7.28E+07	7174.158	5745.359	9.54E+06	2.01E+07	93860.91	1.21E+06	1.07E+06
	Median	2072.117	4.67E+07	3.37E+06	8004.330	2694.017	964182.5	15557.30	2513.379	15112.79	1.31E+06	10845.65	22409.58	51352.15
	Rank	1	13	11	4	2	12	5	3	9	10	6	8	7
	Best	2000.995	2419.042	2136.166	2036.744	2064.002	2204.955	2022.056	2027.900	2061.316	2060.114	2043.009	2127.778	2084.186
	Mean	2017.308	2622.379	2309.355 2594.442	2144.339 2232.140	2086.886 2109.364	2400.171 2570.501	2077.604	2099.344 2287.318	2201.085	2333.276 2560.577	2248.672	2309.277 2562.426	2244.720 2392.423
F20	Worst Std	2042.571 11.46354	2868.509 124.0847	127.8020	59.43859	11.78101	93.46371	2175.864 43.93133	74.62701	2304.577 64.36849	154.8715	2514.778 119.7986	131.7305	89.05507
	Median	2022.058	2660.989	2281.945	2152.341	2087.269	2383.205	2062.259	2059.466	2219.906	2362.345	2244.259	2293.997	2225.372
	Rank	1	13	10	5	3	12	2	4	6	11	8	9	7
	Best	2200	2366.928	2358.759	2202.498	2210.173	2340.699	2203.109	2229.344	2324.541	2264.747	2292.766	2238.099	2280.744
	Mean	2201.616	2460.463	2401.201	2255.676	2218.789	2419.452	2266.849	2319.483	2384.509	2406.576	2371.417	2358.965	2363.836
F21	Worst	2219.011	2524.688	2444.554	2346.567	2229.313	2506.099	2349.552	2342.130	2425.294	2488.314	2438.967	2425.570	2403.803
121	Std	4.191169	38.25400	24.96385	51.42198	4.412836	40.50383	64.44499	23.40935	24.23632	55.78349	29.45614	44.67864	28.01748
	Median	2200.323	2460.952	2400.968	2232.681	2218.597	2417.649	2257.510	2319.418	2383.912	2410.099	2376.665	2360.896	2368.979
	Rank	1	13	10	3	2	12	4	5	9	11	8	6	7
	Best	2300	3076.524	2626.483	2301.490	2330.572 2361.241	3028.213	2302.876 2307.097	2300.872	2464.498 2682.063	2604.445	2356.808	2411.482	2392.892
	Mean Worst	2306.527 2313.958	4374.578 5208.756	3086.551 3709.789	2327.505 2440.009	2393.816	3843.843 5004.413	2318.236	2311.441 2330.330	3061.198	3633.883 4918.589	2788.546 3583.184	2719.566 3958.578	2941.143 4486.762
F22	Std	3.442365	582.9957	304.1502	37.93825	15.68615	467.6498	3.817723	8.466158	191.2151	643.1402	333.7609	348.1995	551.3847
	Median	2306.327	4426.193	3045.799	2313.392	2357.145	3917.434	2307.020	2308.579	2602.946	3691.319	2758.069	2621.585	2748.417
	Rank	1	13	10	4	5	12	2	3	6	11	8	7	9
	Best	2602.111	2732.552	2728.638	2630.409	2654.616	2742.584	2611.339	2603.165	2668.495	2710.886	2658.698	2643.95	2684.856
	Mean	2609.492	2847.196	2865.755	2667.976	2674.745	2874.749	2629.955	2621.256	2759.004	2831.539	2699.700	2720.152	2795.655
F23	Worst	2612.565	3068.414	2965.013	2730.868	2686.246	2980.424	2652.903	2640.197	2915.587	2975.300	2829.255	2823.391	3045.092
	Std	2.523470	83.35855	70.56796	33.55469	8.741795	68.71320	9.541729	10.54667	66.40915	69.64781	38.22932	50.13470	80.97648
	Median	2609.720	2837.339	2857.545	2658.473	2676.984	2890.829	2630.785	2623.065	2750.947	2837.435	2695.717	2711.578	2794.758
	Rank	1 2500	11	12	4	5	13	3	2720.000	8	10	6	7	9
	Best Mean	2500 2517.552	2870.923 3033.837	2846.658 2975.756	2503.068 2569.104	2557.609 2581.103	2855.828 3030.525	2744.604 2760.923	2730.898 2748.697	2660.989 2862.466	2639.796 3000.656	2758.472 2826.888	2675.994 2861.824	2691.603 2902.343
	Worst	2735.644	3497.425	3111.607	2766.514	2709.327	3235.516	2785.299	2776.329	3018.552	3247.384	2906.696	2976.316	3044.769
F24	Std	54.41668	144.0163	72.20325	87.82799	33.36380	121.9996	9.752243	13.16528	72.00923	119.3368	41.76276	62.09139	89.99833
	Median	2500	2994.089	2965.650	2589.384	2572.857	3014.047	2758.925	2745.998	2878.834	3000.500	2827.227	2863.347	2889.193
	Rank	1	13	10	2	3	12	5	4	8	11	6	7	9
	Best	2897.991	3767.652	3042.664	2911.369	2917.483	3304.398	2902.628	2903.508	2965.609	2993.102	2960.819	3006.247	2979.709
	Mean	2920.038	4941.904	3474.973	2982.273	2965.409	4106.963	2938.309	2934.478	3206.043	4287.128	3198.024	3213.089	3206.640
F25	Worst	2950.992	6531.719	3938.952	3179.679	2990.823	5061.476	2960.308	2990.768	3904.442	7452.287	3844.917	4093.525	3556.344
	Std	21.42684	818.6345 5070.699	252.9269 3496.033	68.75186 2951.064	17.03049 2970.485	487.2060 4016.541	17.22798 2947.405	21.62239 2942.852	231.5923	1306.091 4075.867	224.3551 3160.011	256.2196 3101.280	161.6793
	Median Rank	2916.763	13	10	5	4	11	3	2942.832	3150.817 7	12	6	9	3183.659 8
	Best	2600.074	4481.228	3579.212	2602.684	3006.999	3698.594	2815.428	2814.956	3233.386	3283.777	3190.413	3196.954	3468.893
	Mean	2843.183	5144.327	4374.962	3365.041	3144.757	4824.589	3058.038	3081.992	3965.395	4627.085	4035.589	4190.452	3938.098
Fac	Worst	3005.142	5794.828	5020.269	4047.575	3238.757	5680.610	4083.561	3921.524	4655.186	5649.635	5027.912	4763.184	4440.099
F26	Std	116.6354	324.1702	393.5871	397.6795	56.84047	554.0427	341.8406	354.2592	449.0958	696.3744	523.7914	489.4222	333.4759
	Median	2900	5179.748	4372.923	3296.116	3134.683	4916.562	2963.757	2954.159	3992.428	4839.794	4004.494	4393.139	3845.317
<u> </u>	Rank	1	13	10	5	4	12	2002.255	3	7	11	8	9	6
	Best	3089.341	3193.266	3196.634	3099.681	3120.020	3264.508	3092.255	3089.972	3126.592	3173.264	3115.467	3131.465	3150.588
	Mean Worst	3096.968 3104.279	3434.404 3714.689	3422.768 3740.857	3145.277 3192.777	3150.672 3164.497	3480.613 3770.906	3097.906 3107.122	3099.152 3126.572	3231.691 3622.319	3298.415 3423.106	3184.821 3360.765	3257.833 3368.598	3289.005 3617.572
F27	Std	3.805684	163.0808	138.0471	35.11792	11.77400	135.0116	3.904908	9.461987	109.1849	77.58282	57.14738	65.37027	101.7259
	Median	3096.792	3400.408	3422.937	3149.373	3154.569	3443.883	3096.907	3095.023	3197.722	3301.672	3175.647	3254.577	3287.871
1	Rank	1	12	11	4	5	13	2	3	7	10	6	8	9
	Best	3100	3903.456	3711.828	3227.717	3201.916	3660.657	3100.526	3169.394	3335.883	3277.619	3307.029	3348.352	3329.137
	Mean	3164.134	4224.638	3907.847	3391.256	3245.885	4156.347	3318.581	3354.529	3696.136	3902.199	3551.877	3549.440	3677.637
F28	Worst	3246.480	4824.539	4029.777	3594.007	3291.661	4549.293	3432.089	3592.808	4027.797	4347.594	3922.301	3739.228	3978.349
- 30	Std	44.80122	252.0022	78.57586	65.56012	29.04167	236.8596	118.3177	114.9432	197.5767	292.2604	166.4103	116.3718	176.1173
	Median Rank	3167.187	4249.195 13	3904.663 11	3383.788 5	3239.593	4133.492 12	3407.403	3392.158	3730.442 9	3945.041 10	3543.855	3552.309 6	3754.649 8
—	Best	3143.979	3637.581	3238.699	3161.074	3216.933	3564.929	3158.417	3146.121	3185.165	3273.920	3243.16	3228.219	3245.773
	Mean	3216.425	4032.055	3582.194	3286.698	3258.684	3824.517	3238.599	3222.175	3458.788	3588.992	3443.691	3508.855	3405.147
Egg	Worst	3250.904	4662.619	3790.639	3387.973	3301.023	4663.217	3374.690	3317.555	3702.908	4038.736	3691.896	3782.182	3844.724
F29	Std	27.80803	294.3099	158.7407	62.91603	20.71162	263.6229	64.57007	52.34923	162.8839	218.5019	116.6623	135.6495	155.3472
	Median	3216.803	4027.787	3584.093	3287.91	3259.587	3742.609	3231.819	3223.004	3463.009	3630.296	3426.144	3549.961	3370.504
	Rank	1	13	10	5	4	12	3	2	8	11	7	9	6
	Best	4207.795	3.89E+07	994238.1	11084.98	198059.7	8.99E+06	5464.774	7278.623	134875.5	1.05E+06	764319.9	22049.85	3.20E+06
	Mean	9881.009	1.98E+08	7.16E+07	613669.8	1.20E+06	1.28E+08	261962.9	570554.8	1.78E+07	5.77E+07	7.49E+06	2.87E+06	5.84E+07
F30	Worst	17887.36	6.70E+08	3.09E+08	3.93E+06	2.61E+06	3.13E+08	1.63E+06	3.69E+06	7.92E+07	3.05E+08	2.85E+07	1.03E+07	1.60E+08
	Std Median	4075.722	1.48E+08	8.77E+07	967130.5	581258.5	8.58E+07	406511.9 79550.51	1.01E+06	2.00E+07	8.00E+07	6.21E+06	2.89E+06	4.09E+07
1	Rank	9145.151	1.77E+08 13	3.45E+07 11	262970.3 4	1.08E+06 5	9.37E+07 12	79550.51	64983.96	1.13E+07 8	3.23E+07 10	5.79E+06 7	2.87E+06 6	4.61E+07
Sur	n Rank	30	372	289	121	115	347	93	83	215	315	228	214	217
	n Rank	1.034483	12.82759	9.965517	4.172414	3.965517	11.96552	3.206897	2.862069	7.413793	10.86207	7.862069	7.37931	7.482759
	al Rank	1	13	10	5	4	12	3.200077	2	5	11	9	7.37731	8
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TABLE S6: Evaluation Results of Engineering Benchmark Problems

Engineering	Problems	SLIM(Ours)	GA	TLBO	DTBO	wo	GSA	WOA	GWO	AVOA	RSA	MPA	TSA	MVO
	Best	5880.928	16249.67	9288.889	5901.785	7001.497	8156.114	5883.591	5883.944	6159.342	10042.73	6429.162	10847.3	10929.42
D	Mean	5974.541	44680.71	24465.49	6385.272	7963.624	18096.08	6421.939	5985.673	9664.342	27083.74	10715.14	24132.49	17993.79
Pressure Vessel	Worst	6127.846	118308.8	36679.76	6743.241	8719.261	32605.14	7311.034	6466.947	15161.68	66977.97	22490.67	50891.81	30208.05
Design	Std	73.46460	27715.89	6801.638	217.5495	448.4098	6463.286	588.7512	173.7946	2619.674	17583.42	4184.994	11154.99	5542.683
Design	Median	5960.980	39304.66	23050.86	6384.935	7889.578	17997.45	6239.654	5914.159	9199.016	21360.54	9195.779	19898.77	16516.89
	Rank	1	13	11	3	5	9	4	2	6	12	7	10	8
	Best	1.473036	3.005859	2.700001	1.473165	1.515835	3.336589	1.475809	1.473865	1.485039	2.311597	1.611787	1.851635	2.224236
	Mean	1.473036	1.26E+08	4.838297	1.477494	1.901718	1.82E+07	1.501298	1.475671	2.312955	3.11E+07	3.074672	3.75E+07	3.686454
Welded	Worst	1.473036	8.16E+08	7.484016	1.491305	2.189474	1.65E+08	1.747626	1.484104	3.385458	3.33E+08	5.206476	5.20E+08	6.112985
Beam	Std	4.48E-09	2.13E+08	1.450761	0.005727	0.149081	4.27E+07	0.061445	0.002374	0.655739	8.38E+07	0.949504	1.25E+08	1.059997
	Median	1.473036	6.155955	4.675240	1.474663	1.890636	5.964467	1.483174	1.474690	2.289934	4.587174	2.861935	4.326107	3.420746
	Rank	1	13	9	3	5	10	4	2	6	11	7	12	8
	Best	0.012036	0.020339	0.020914	0.012667	0.013247	0.026443	0.012668	0.012673	0.012868	0.014886	0.013688	0.034885	0.021933
	Mean	0.012667	4.94E+08	4.80E+08	0.013127	0.017709	2.44E+08	0.013286	0.012769	0.013976	3.91E+08	0.031981	2.92E+08	3.62E+08
String	Worst	0.012768	9.70E+08	9.97E+08	0.013589	0.024111	4.78E+08	0.016717	0.013275	0.015904	9.94E+08	0.187558	9.61E+08	9.29E+08
Design	Std	0.000151	3.73E+08	4.32E+08	0.000282	0.002698	2.03E+08	0.001034	0.000146	0.000926	3.99E+08	0.037238	3.70E+08	4.11E+08
	Median	0.012704	5.10E+08	5.94E+08	0.013172	0.017334	2.59E+08	0.012746	0.012725	0.013699	3.18E+08	0.024208	4.88E+08	1.21E+08
	Rank	1	13	12	3	6	8	4	2	5	11	7	9	10
	Best	263.8958	265.3595	263.9009	263.8958	263.8984	264.9624	263.8959	263.8961	263.9020	263.8968	263.8962	264.3241	263.8959
Three	Mean	263.8959	282.2984	265.3907	263.8962	263.9106	274.1229	263.9044	263.8991	264.7474	268.4817	264.9090	270.6581	264.5009
Bar	Worst	263.8963	315.7944	270.9587	263.8974	263.9389	282.8427	263.9318	263.9078	271.0137	284.4463	270.9577	282.9540	266.2201
Truss	Std	0.000116	12.71869	2.251149	0.000426	0.009625	6.085770	0.009437	0.002862	2.145889	6.641144	1.596736	4.867632	0.710699
11 455	Median	263.8959	281.6658	264.3413	263.8961	263.9071	274.7035	263.9008	263.8985	264.0022	265.5701	264.6626	270.8287	264.2849
	Rank	1	13	9	2	5	12	4	3	7	10	8	11	6
	Best	0	3.14E-05	0	0	2.65E-12	1.40E-13	1.89E-17	9.52E-16	1.15E-14	1.48E-20	0	4.82E-19	0
Gear	Mean	3.37E-16	0.007554	0.004705	0	1.16E-10	0.001409	1.07E-13	8.79E-13	5.47E-12	0.004472	7.45E-16	9.27E-15	0.001980
Train	Worst	5.34E-15	0.048392	0.038016	0	5.03E-10	0.014712	6.65E-13	3.45E-12	5.39E-11	0.023495	1.49E-14	6.84E-14	0.014399
Design	Std	1.20E-15	0.012752	0.009511	0	1.57E-10	0.003369	1.85E-13	1.06E-12	1.18E-11	0.006882	3.33E-15	1.58E-14	0.003917
	Median	1.78E-39	0.001687	0.000343	0	3.88E-11	1.48E-05	1.00E-14	5.17E-13	1.82E-12	0.001499	0	5.56E-15	1.89E-06
	Rank	2	13	12	1	8	9	5	6	7	11	3	4	10
	Best	1.339965	5.234791	4.178882	1.339958	1.575409	3.465988	1.340033	1.339975	1.498955	4.356971	1.904846	4.008062	4.445262
a	Mean	1.340009	8.613523	7.633363	1.342466	2.784859	7.460303	1.340498	1.340017	1.683717	7.574240	3.203657	6.725761	7.429576
Cantilever	Worst	1.340101	10.93972	9.620686	1.349983	3.913163	11.29435	1.341899	1.340077	1.916567	11.07049	5.613711	10.84004	10.81732
Beam	Std	4.11E-05	1.652328	1.407990	0.004442	0.585616	2.083779	0.000413	3.11E-05	0.116308	2.078122	1.077071	1.671013	1.393546
	Median	1.339997	8.546408	7.952747	1.339968	2.911407	7.786088	1.340403	1.340013	1.660048	7.498067	3.134069	6.774822	7.493145
	Rank	1	13	12	4	6	10	3	2	5	11	/	8	9
Sum Rank		7	78	65	16	35	58	24	17	36	66	39	54	51
Mean Rank		1.166667	13	10.83333	2.666667	5.833333	9.666667	4	2.833333	6	11	6.5	9	8.5
Total Rank		1	13	11	2	5	10	4	3	6	12	7	9	8