

algo	BBO		NormGA		PSO		imprvGA	
function	mean	std	mean	std	mean	std	mean	std
Ackley	15.612924	2.3009089	16.503878	2.5908201	19.958768	0.0382873	19.489979	0.6607531
DeJongsF1	976.04693	307.82222	317.96909	144.5594	404.28256	111.41053	110.38446	85.009976
DeJongsF2	6468022.2	3422480.3	5835442.1	3302837.3	3214529.8	2737040.1	524266.44	748986.54
Ellipsoid	25477333	41344566	1483851.7	1757184	2924654.3	2072077.3	223511	146400.82
Griewank	0.1507796	0.0561691	-0.008957	0.110208	-0.012231	0.0907983	-0.230834	0.1393655
HyperEllips	4619.114	3154.9615	1267.6417	441.9117	1366.4786	824.14262	620.06365	218.61635
KTablet	3455690.3	1222014.8	710127.77	547004.26	1438818.2	469717.44	691360.28	348230.93
Michalewicz	-6.856703	0.7415658	-7.06415	0.6780164	-3.001008	0.1642096	-7.730777	0.8186351
Rastrigin	898.05995	410.08532	414.45249	110.68447	690.03862	184.54062	171.26077	83.368135
Rosenbrock	6468022.2	3422480.3	5835442.1	3302837.3	3214529.8	2737040.1	524266.44	748986.54
Schwefel	-601.1277	21.178365	-604.276	16.359599	-483.3691	44.176422	-620.9859	9.2523506
Sphere	976.04693	307.82222	317.96909	144.5594	404.28256	111.41053	110.38446	85.009976
StyblinskiTa	73180.376	60304.489	21522.854	18364.941	52919.349	75069.201	3291.1611	2608.1685
SumOfDiffe	4.215E+10	8.746E+10	22171725	28969044	78015256	112469847	773150.88	396205.54
WeightedSp	4619.114	3154.9615	1267.6417	441.9117	1366.4786	824.14262	620.06365	218.61635
XinSheYang	0.0244772	0.0105552	0.0244865	0.0109362	0.2639791	0.1796461	0.0233444	0.0051647
Zakharov	-71.6884	81.320087	-74.49842	46.703995	-83.31532	59.584834	-101.7586	66.649315