Table 1: Performance Results for Schwefel_10D Problem

Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
Adam-Robust	4.69e3	1.88e0	4.68e3	4.69e3	2502.0	0.0	0.064
L-BFGS-	3.55e3	2.96e-7	3.55e3	3.55e3	2188.9	0.0	0.064
Conservative							
Adam-	4.67e3	1.85e0	4.67e3	4.68e3	2502.0	0.0	0.063
AMSGrad							
Adam-	4.55e3	1.50e0	4.55e3	4.56e3	2502.0	0.0	0.060
WeightDecay							
Adam	4.67e3	2.21e0	4.67e3	4.68e3	2502.0	0.0	0.056
GD	3.55e3	8.86e-3	3.55e3	3.55e3	1668.0	0.0	0.046
GD-	3.55e3	6.30e-8	3.55e3	3.55e3	1194.6	0.0	0.040
WeightDecay							
Adam-Fast	3.55e3	1.08e-7	3.55e3	3.55e3	1628.7	0.0	0.035
Trust Region-	4.48e3	1.82e0	4.48e3	4.49e3	3002.0	0.0	0.022
Adaptive							
Trust Region-	4.72e3	1.20e0	4.72e3	4.73e3	3002.0	0.0	0.022
Conservative							
Trust Region-	4.67e3	1.71e0	4.67e3	4.67e3	3002.0	0.0	0.022
Precise							
Trust Region-	3.73e3	2.12e0	3.73e3	3.74e3	3002.0	0.0	0.022
Standard							
L-BFGS-	3.55e3	3.01e1	3.42e3	3.55e3	577.7	0.0	0.020
Limited							
QQN-	8.35e2	1.64e3	-2.28e3	2.96e3	395.5	50.0	0.019
StrongWolfe							
GD-Nesterov	3.55e3	8.72e-7	3.55e3	3.55e3	392.1	0.0	0.013
GD-Momentum	3.55e3	6.50e-7	3.55e3	3.55e3	380.3	0.0	0.012
L-BFGS	3.55e3	1.15e-2	3.55e3	3.55e3	300.9	0.0	0.008
Trust Region-	3.56e3	1.17e0	3.56e3	3.56e3	888.8	0.0	0.007
Aggressive		~ ~ ~ ~			4044	0.0	
GD-	3.55e3	5.29e-2	3.55e3	3.55e3	164.1	0.0	0.007
AdaptiveMomentu		1 10 0	0 = = 0	0 = = 0	150.0	0.0	0.004
L-BFGS-	3.55e3	1.12e-3	3.55e3	3.55e3	159.3	0.0	0.004
MoreThuente	0.55.0	0.05 10	0.55.0	0.55.0	1.47.0	0.0	0.000
QQN-	3.55e3	9.37e-13	3.55e3	3.55e3	147.8	0.0	0.002
GoldenSection	0.55.0	0.00 19	255.2	255 2	50.0	0.0	0.000
QQN-Bisection-	3.55e3	9.09e-13	3.55e3	3.55e3	52.0	0.0	0.002
2 L-BFGS-	2 55.2	4 65 a 9	9 55.9	2 55.2	101.0	0.0	0.000
	3.55e3	4.65e-2	3.55e3	3.55e3	101.0	0.0	0.002
Aggressive	2 55,2	1 49 2 9	2 55-2	2 55.2	56.0	0.0	0.001
QQN-	3.55e3	1.43e-3	3.55e3	3.55e3	56.9	0.0	0.001
CubicQuadraticInt QQN-Bisection-	terpolation 3.55e3	9.09e-13	3.55e3	3.55e3	52.0	0.0	0.001
QQN-Disection- 1	ა .ააცა	9.09 0- 19	ə.əəeə	5.55e5	J2.U	0.0	0.001