Table 1: Performance Results for Schwefel_10D Problem

Optimizer	Mean Final	Std Dev	Best	Worst	Mean Func	Success	Mean Time
	Value		Value	Value	Evals	Rate (%)	(s)
QQN-	8.35e2	1.64e3	-2.28e3	2.96e3	395.5	50.0	0.017
StrongWolfe	0.55.0	0.01.1	0.40.0	0 55 0	F 77 7	0.0	0.017
L-BFGS-	3.55e3	3.01e1	3.42e3	3.55e3	577.7	0.0	0.017
$\begin{array}{c} {\rm Limited} \\ {\rm QQN}\text{-} \end{array}$	3.55e3	9.37e-13	3.55e3	3.55e3	147.8	0.0	0.002
GoldenSection	5. 55e5	9.576-15	5.55es	5.55e5	147.0	0.0	0.002
QQN-	3.55e3	1.43e-3	3.55e3	3.55e3	56.9	0.0	0.001
CubicQuadraticInterpolation		1.406-0	5.5565	5.5565	50.5	0.0	0.001
QQN-Bisection-	-	9.09e-13	3.55e3	3.55e3	52.0	0.0	0.001
2	0.0000	0.000 10	0.0000	0.0000	02.0	0.0	0.001
QQN-Bisection-	3.55e3	9.09e-13	3.55e3	3.55e3	52.0	0.0	0.001
1							
L-BFGS	3.55e3	1.15e-2	3.55e3	3.55e3	300.9	0.0	0.008
L-BFGS-	3.55e3	2.96e-7	3.55e3	3.55e3	2188.9	0.0	0.063
Conservative							
L-BFGS-	3.55e3	1.12e-3	3.55e3	3.55e3	159.3	0.0	0.004
MoreThuente							
GD-	3.55e3	6.30e-8	3.55e3	3.55e3	1194.6	0.0	0.040
WeightDecay							
GD-Momentum		6.50e-7	3.55e3	3.55e3	380.3	0.0	0.012
GD-Nesterov	3.55e3	8.72e-7	3.55e3	3.55e3	392.1	0.0	0.013
Adam-Fast	3.55e3	1.08e-7	3.55e3	3.55e3	1628.7	0.0	0.035
L-BFGS-	3.55e3	4.65e-2	3.55e3	3.55e3	101.0	0.0	0.002
Aggressive	2 5 5 9	F 00 0	255 2	255 2	104.1	0.0	0.000
GD-	3.55e3	5.29e-2	3.55e3	3.55e3	164.1	0.0	0.006
AdaptiveMoments GD	3.55e3	8.86e-3	3.55e3	3.55e3	1668.0	0.0	0.047
Trust Region		1.17e0	3.56e3	3.56e3	888.8	0.0	0.047 0.007
Aggressive	- 5.5065	1.1760	5.5065	3.3063	000.0	0.0	0.007
Trust Region	- 3.73e3	2.12e0	3.73e3	3.74e3	3002.0	0.0	0.022
Standard	0.1000	2.1200	0.1000	0.1400	3002.0	0.0	0.022
Trust Region	- 4.48e3	1.82e0	4.48e3	4.49e3	3002.0	0.0	0.022
Adaptive	1.1000	1.0200	1.1000	1.1000	3002.0	0.0	0.022
Adam-	4.55e3	1.50e0	4.55e3	4.56e3	2502.0	0.0	0.060
WeightDecay							
Trust Region	- 4.67e3	1.71e0	4.67e3	4.67e3	3002.0	0.0	0.022
Precise							
Adam	4.67e3	2.21e0	4.67e3	4.68e3	2502.0	0.0	0.054
Adam-	4.67e3	1.85e0	4.67e3	4.68e3	2502.0	0.0	0.061
AMSGrad							
Adam-Robust	4.69e3	1.88e0	4.68e3	4.69e3	2502.0	0.0	0.062
Trust Region	-4.72e3	1.20e0	4.72e3	4.73e3	3002.0	0.0	0.022
Conservative							