Table 1: Performance Results for NoisySphere $\ 10Dn_sigma0.01Problem$

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Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD-Momentum	1.00×10^{1}	1.76	5.05	1.23×10^{1}	17.3	10.0	0.006
L-BFGS	2.84×10^{1}	1.07×10^{1}	1.12×10^{1}	5.12×10^{1}	61.5	5.0	0.005
L-BFGS-Conservative	5.33	1.38	2.96	8.18	835.8	0.0	0.045
QQN-Bisection-1	8.30	1.77	3.20	1.05×10^{1}	127.7	0.0	0.037
QQN-Backtracking	8.49	2.58	2.59	1.13×10^{1}	254.3	0.0	0.015
QQN-StrongWolfe	9.34	1.35	6.81	1.14×10^{1}	26.9	0.0	0.003
QQN-GoldenSection	9.40	1.57	3.86	1.23×10^{1}	26.5	0.0	0.002
QQN-MoreThuente	9.45	5.78×10^{-1}	8.36	1.02×10^{1}	14.9	0.0	0.003
QQN-CubicQuadraticInterpolation	9.88	7.88×10^{-1}	8.12	1.18×10^{1}	26.0	0.0	0.006
Trust Region-Standard	9.92	7.60×10^{-1}	8.76	1.17×10^{1}	5.0	0.0	0.001
Trust Region-Conservative	9.99	7.74×10^{-1}	8.78	1.16×10^{1}	7.1	0.0	0.001
GD-WeightDecay	9.99	1.30	6.67	1.20×10^{1}	15.9	0.0	0.005
Adam	1.00×10^{1}	8.06×10^{-1}	8.40	1.18×10^{1}	30.6	0.0	0.006
L-BFGS-Aggressive	1.01×10^{1}	7.91×10^{-1}	8.41	1.15×10^{1}	11.1	0.0	0.001
Adam-WeightDecay	1.02×10^{1}	7.97×10^{-1}	9.00	1.16×10^{1}	28.8	0.0	0.005
Trust Region-Adaptive	1.03×10^{1}	7.89×10^{-1}	9.14	1.19×10^{1}	5.0	0.0	0.001
GD	1.03×10^{1}	9.17×10^{-1}	8.51	1.19×10^{1}	12.6	0.0	0.004
Adam-AMSGrad	1.03×10^{1}	8.26×10^{-1}	9.13	1.19×10^{1}	30.6	0.0	0.006
GD-Nesterov	1.05×10^{1}	1.21	7.41	1.23×10^{1}	11.8	0.0	0.004
Adam-Fast	1.09×10^{1}	1.61	6.81	1.51×10^{1}	19.1	0.0	0.003