Table 1: Performance Results for SVM\200samplesn\_10featuresn\_C1Problem

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Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD-WeightDecay	$6.86 \times 10^{-1}$	$8.95 \times 10^{-7}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	178.7	0.0	0.181
QQN-StrongWolfe	$6.86 \times 10^{-1}$	$2.94 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	551.6	0.0	0.348
QQN-Backtracking	$6.86 \times 10^{-1}$	$2.72 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	679.4	0.0	0.307
QQN-Bisection-1	$6.86 \times 10^{-1}$	$6.62 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	478.8	0.0	0.356
L-BFGS-Conservative	$6.86 \times 10^{-1}$	$7.92 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	555.9	0.0	0.246
QQN-MoreThuente	$6.86 \times 10^{-1}$	$6.37 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	443.4	0.0	0.344
QQN-Bisection-2	$6.86 \times 10^{-1}$	$1.30 \times 10^{-5}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	324.1	0.0	0.187
QQN-GoldenSection	$6.86 \times 10^{-1}$	$6.09 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	672.1	0.0	0.234
QQN-CubicQuadraticInterpolation	$6.86 \times 10^{-1}$	$5.45 \times 10^{-6}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	395.0	0.0	0.362
GD	$6.86 \times 10^{-1}$	$1.26 \times 10^{-5}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	334.8	0.0	0.342
L-BFGS-Aggressive	$6.86 \times 10^{-1}$	$1.47 \times 10^{-5}$	$6.86 \times 10^{-1}$	$6.86 \times 10^{-1}$	135.1	0.0	0.057
Adam-WeightDecay	$6.86 \times 10^{-1}$	$4.19 \times 10^{-4}$	$6.86 \times 10^{-1}$	$6.88 \times 10^{-1}$	481.4	0.0	0.317
L-BFGS	$6.87 \times 10^{-1}$	$1.75 \times 10^{-3}$	$6.86 \times 10^{-1}$	$6.94 \times 10^{-1}$	269.8	0.0	0.125
GD-Nesterov	$7.02 \times 10^{-1}$	$3.42 \times 10^{-3}$	$6.96 \times 10^{-1}$	$7.09 \times 10^{-1}$	25.7	0.0	0.025
Adam-Fast	$7.10 \times 10^{-1}$	$2.29 \times 10^{-2}$	$6.86 \times 10^{-1}$	$7.63 \times 10^{-1}$	55.8	0.0	0.036
GD-Momentum	$7.11 \times 10^{-1}$	$6.48 \times 10^{-3}$	$7.01 \times 10^{-1}$	$7.29 \times 10^{-1}$	25.8	0.0	0.025
Adam-AMSGrad	$7.37 \times 10^{-1}$	$3.08 \times 10^{-2}$	$6.92 \times 10^{-1}$	$7.99 \times 10^{-1}$	502.0	0.0	0.328
Adam	$7.48 \times 10^{-1}$	$3.72 \times 10^{-2}$	$6.88 \times 10^{-1}$	$8.32 \times 10^{-1}$	502.0	0.0	0.329
Trust Region-Standard	$9.97 \times 10^{-1}$	$6.11 \times 10^{-1}$	$6.96 \times 10^{-1}$	3.60	21.9	0.0	0.012
Trust Region-Conservative	2.67	1.46	$6.89 \times 10^{-1}$	4.04	128.8	0.0	0.067
Trust Region-Adaptive	8.45	$1.29 \times 10^{1}$	$7.44 \times 10^{-1}$	$3.47 \times 10^{1}$	21.8	0.0	0.011