

Metric	P-Value	Significant
Accuracy	0.000218	Yes
F1-Score	0.000949	Yes
RMSE	0.030845	Yes
ROC-AUC	0.039602	Yes
Tree Size	0.000104	Yes

Table 1: p-Values of the Friedman Test

Algorithm	Accuracy	F1-Score	RMSE	ROC-AUC	Tree Size
GP vs GSGP	0-8-2	0-8-2	1-6-3	0-6-4	10-0-0
GP vs SLIM*SIG1	8-2-0	6-4-0	3-7-0	2-7-1	3-4-3
GP vs SLIM+SIG1	1-8-1	1-7-2	2-3-5	0-7-3	1-7-2
GSGP vs SLIM*SIG1	8-2-0	7-3-0	5-4-1	6-3-1	0-0-10
GSGP vs SLIM+SIG1	1-9-0	1-9-0	2-7-1	3-6-1	0-0-10
SLIM*SIG1 vs SLIM+SIG1	0-2-8	0-3-7	0-2-8	0-6-4	4-3-3

Table 2: Win Tie Loss

Metric	P-Value	Significant
Accuracy	0.012791	Yes
F1-Score	0.050654	No
ROC-AUC	0.011568	Yes
Tree Size	0.000015	Yes

Table 3: p-Values of the Friedman Test

Fitness Function	Accuracy	F1-Score	ROC-AUC	Tree Size
Accuracy vs F1-Score	3-7-0	0-9-1	1-7-2	0-9-1
Accuracy vs RMSE	0-7-3	0-7-3	0-6-4	9-1-0
Accuracy vs WRMSE	4-5-1	0-6-4	0-4-6	9-1-0
F1-Score vs RMSE	0-4-6	1-6-3	0-7-3	9-1-0
F1-Score vs WRMSE	2-6-2	0-8-2	0-6-4	9-1-0
RMSE vs WRMSE	3-7-0	0-8-2	0-10-0	2-7-1

Table 4: Win Tie Loss

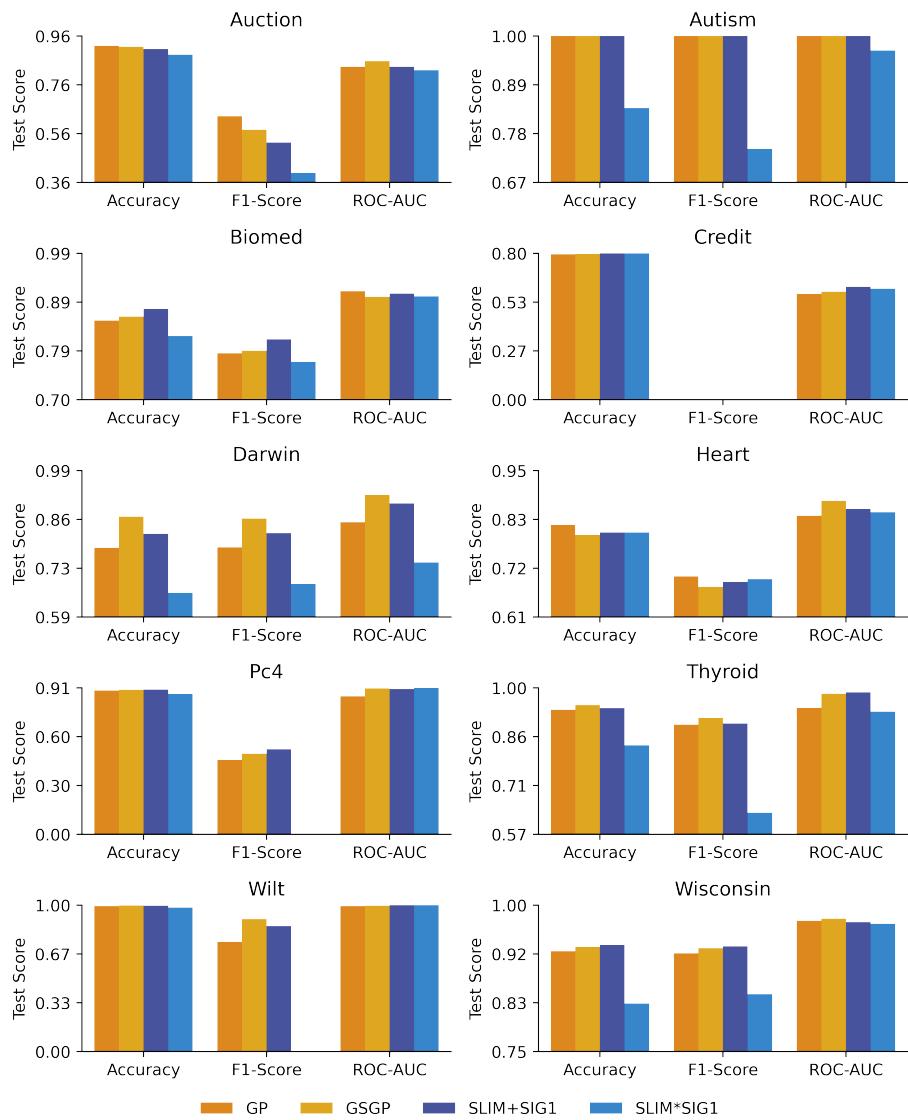


Figure 1: Performance by Algorithm

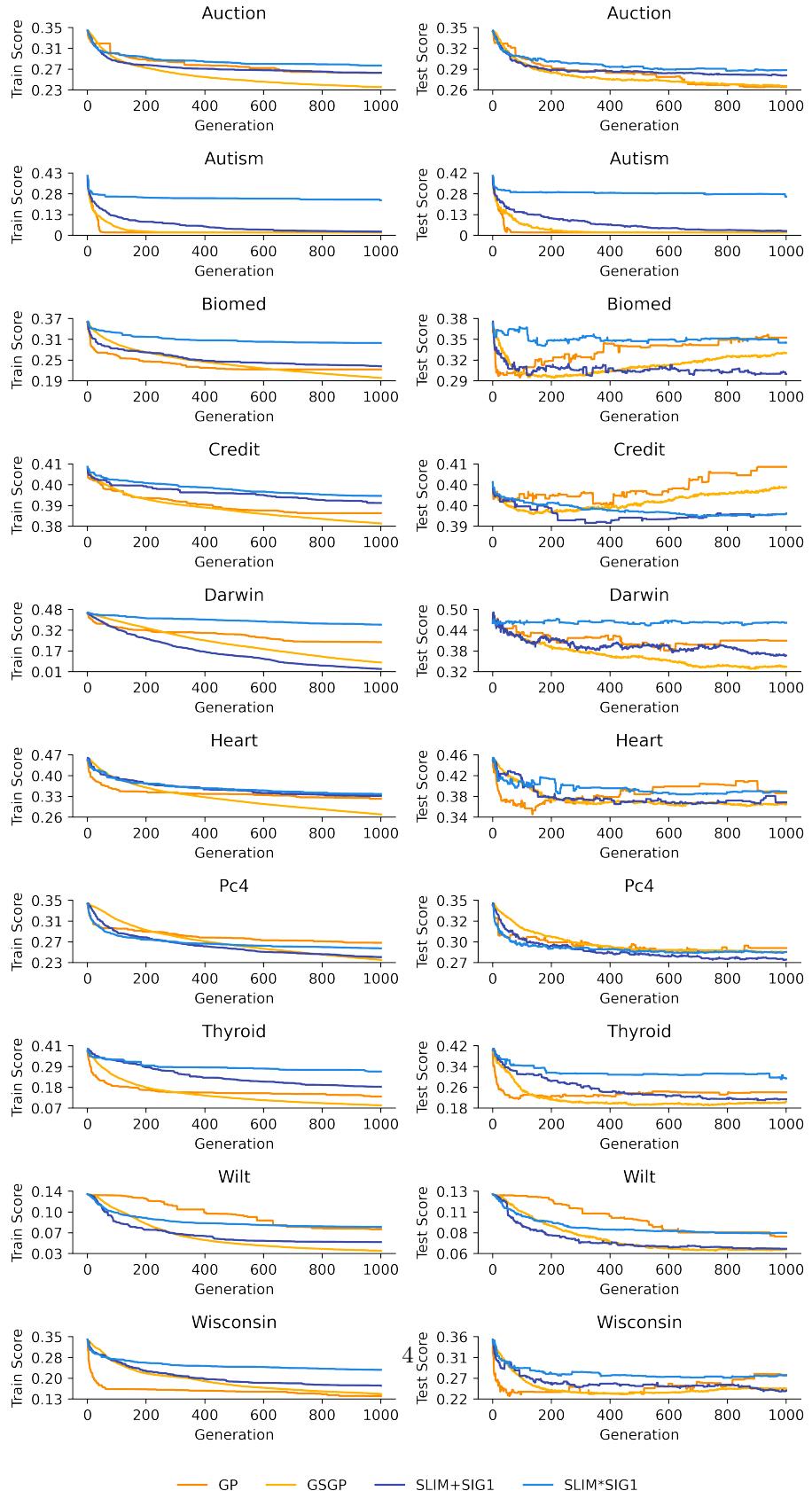


Figure 2: Performance Evolution by Algorithm

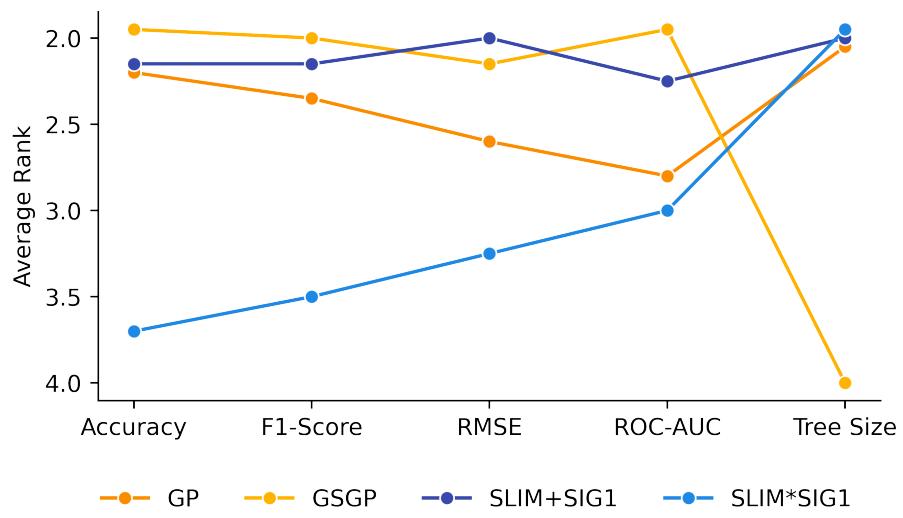


Figure 3: Ranks by Algorithm

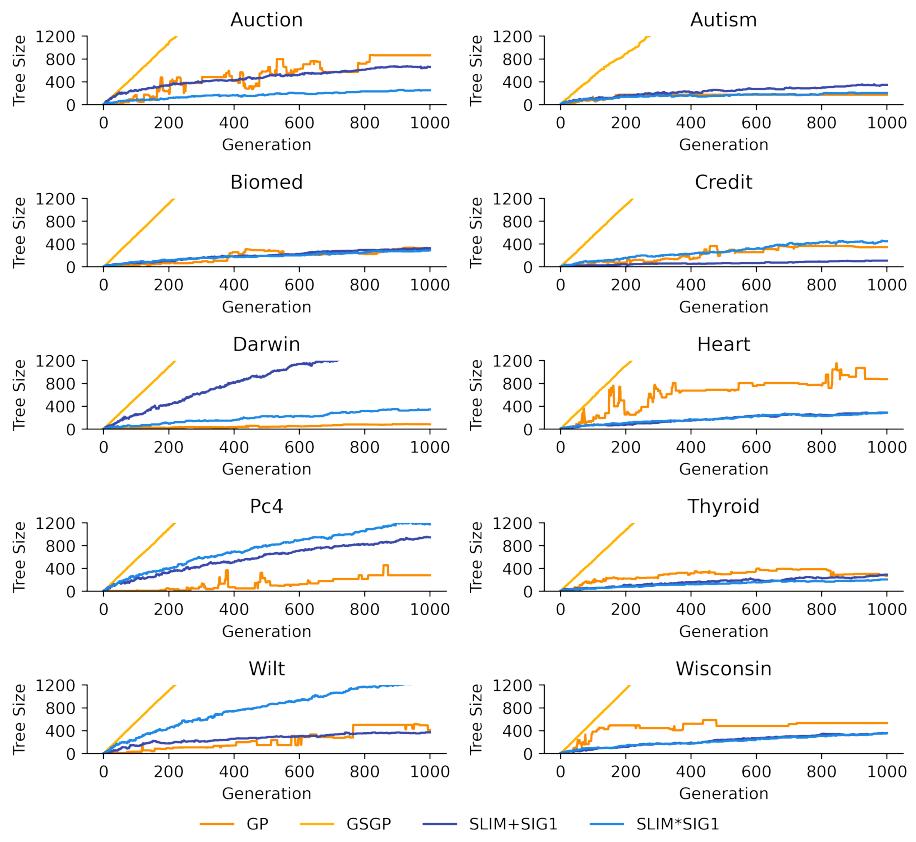


Figure 4: Tree Size Evolution by Algorithm

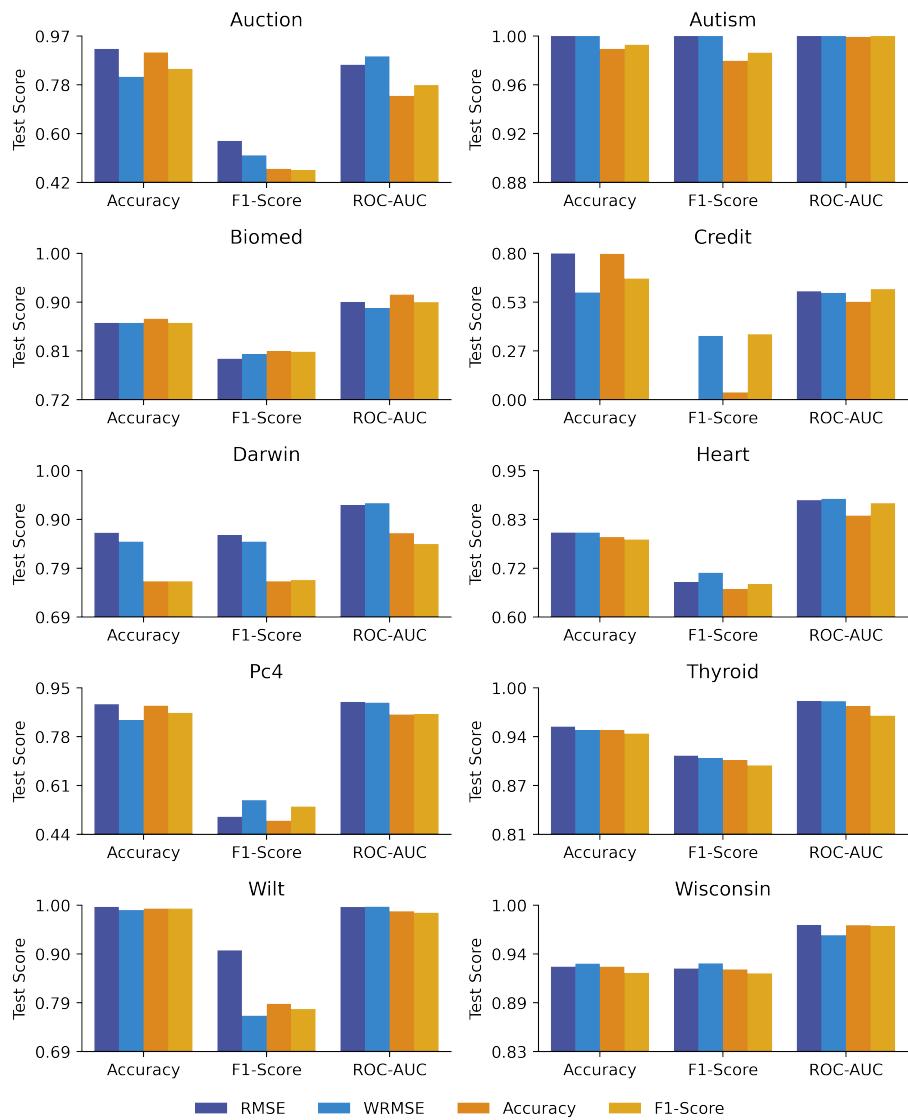


Figure 5: Performance by Fitness Function

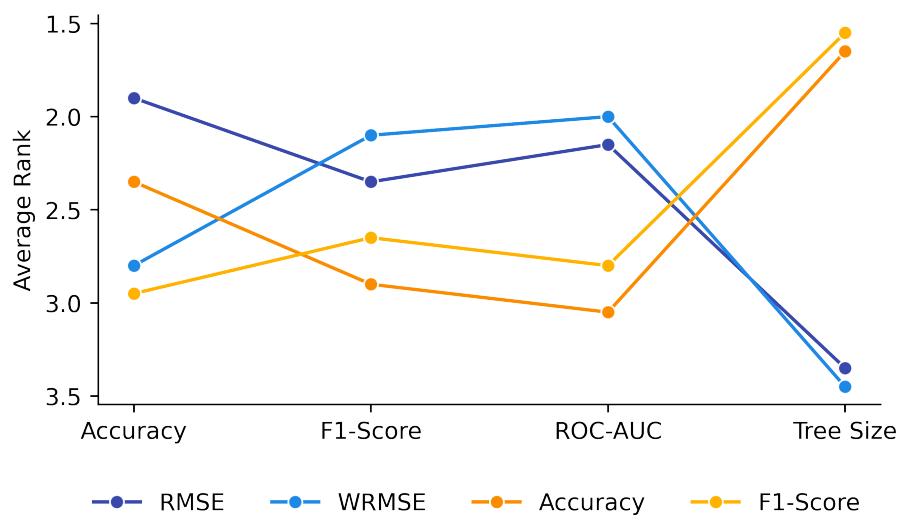


Figure 6: Ranks by Fitness Function

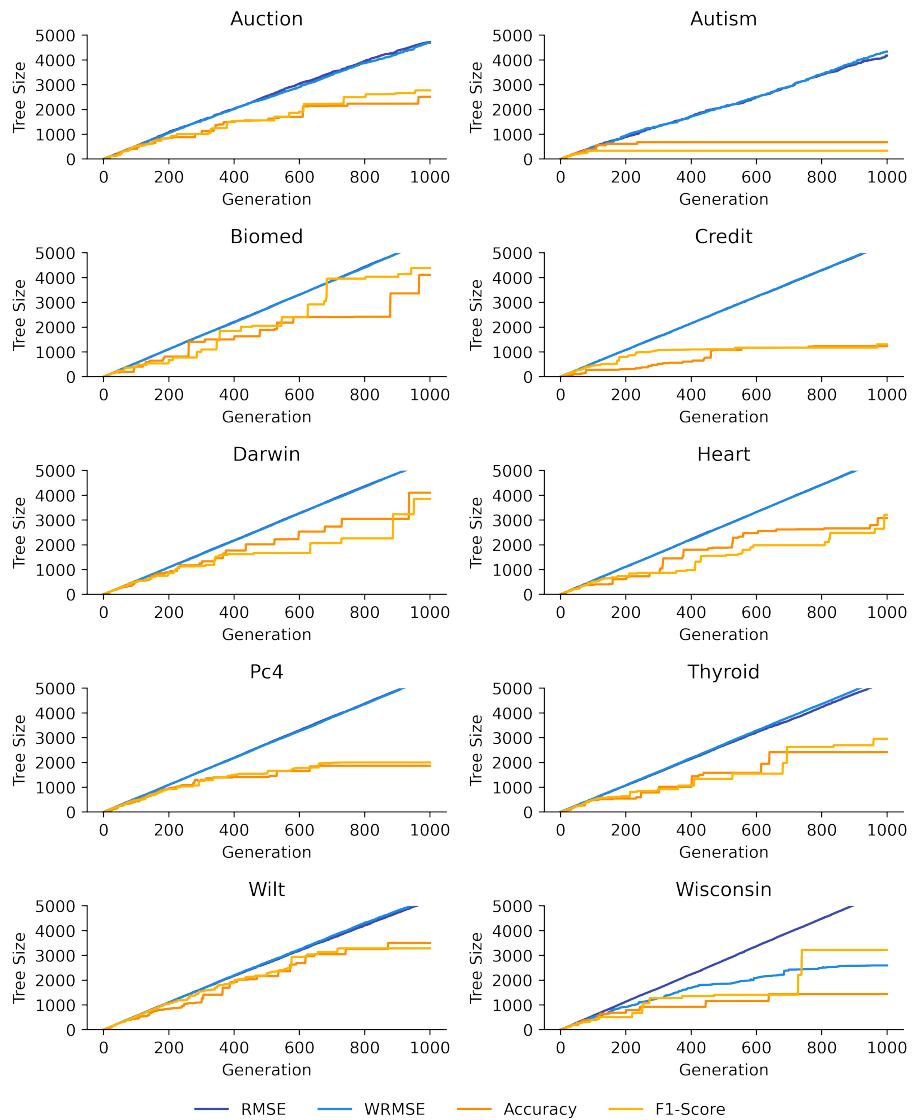


Figure 7: Tree Size Evolution by Fitness Function

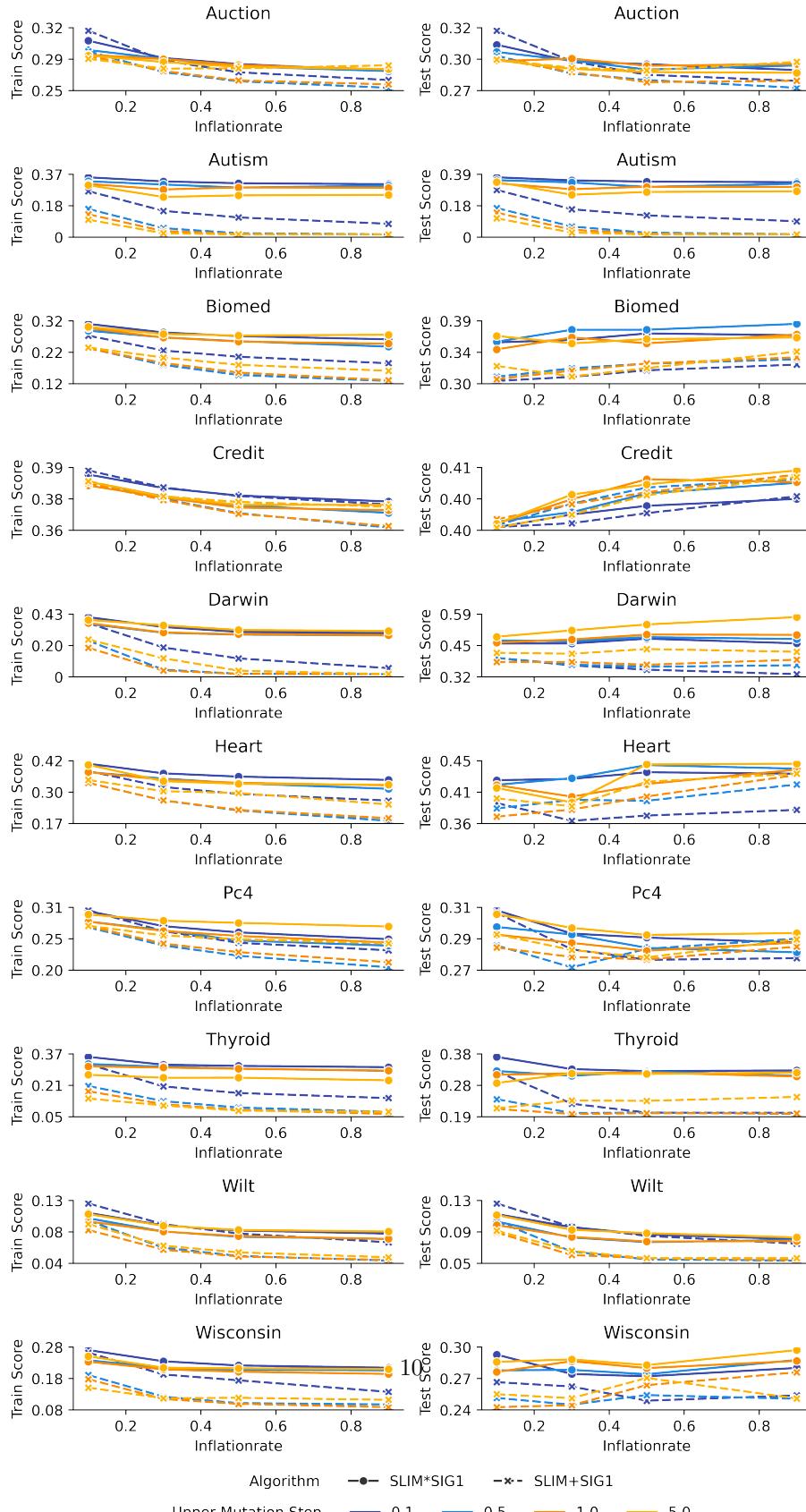


Figure 8: Performance by Inflationrate

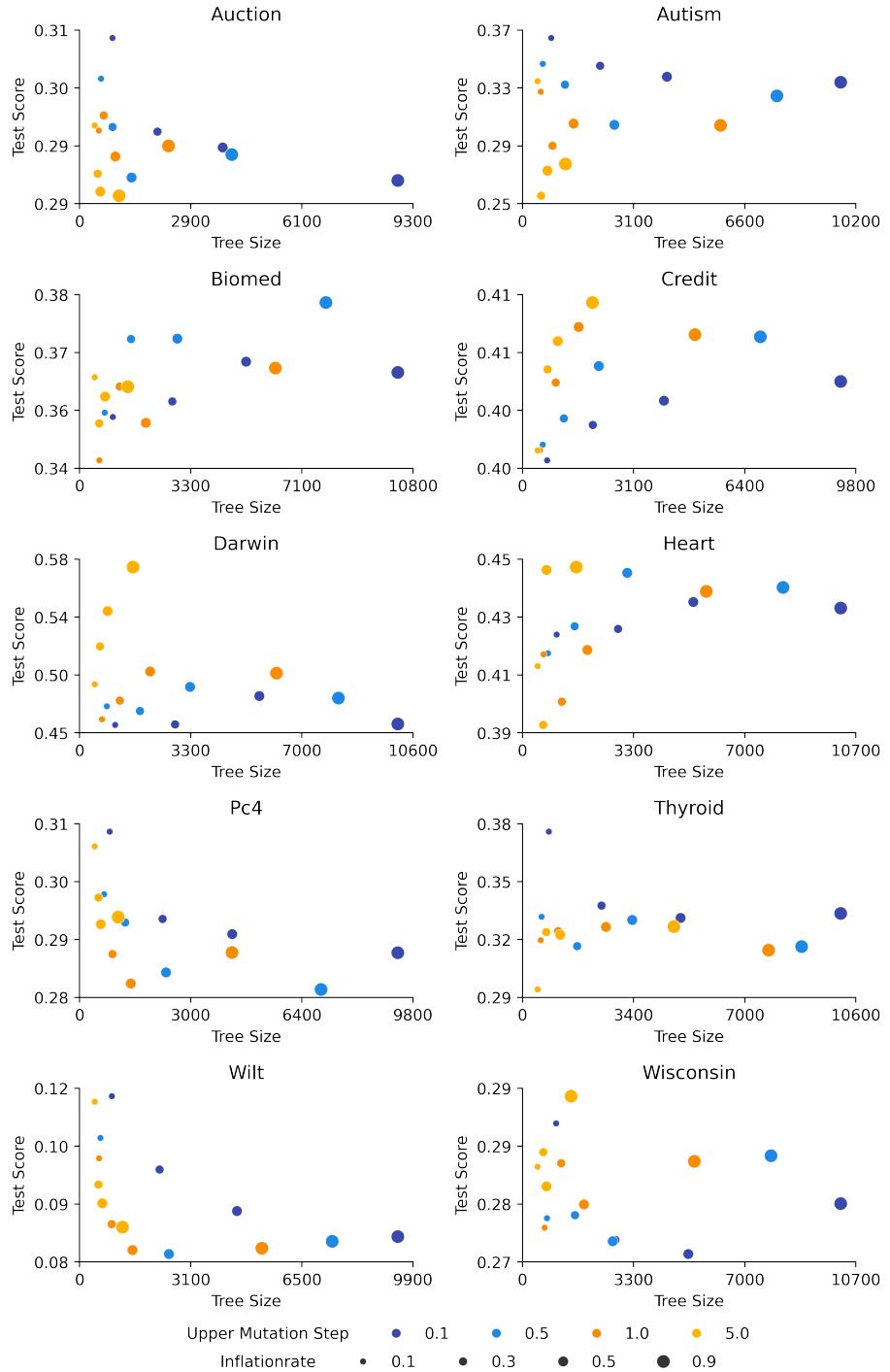


Figure 9: Performance-Complexity-Tradeoff SLIM*SIG1

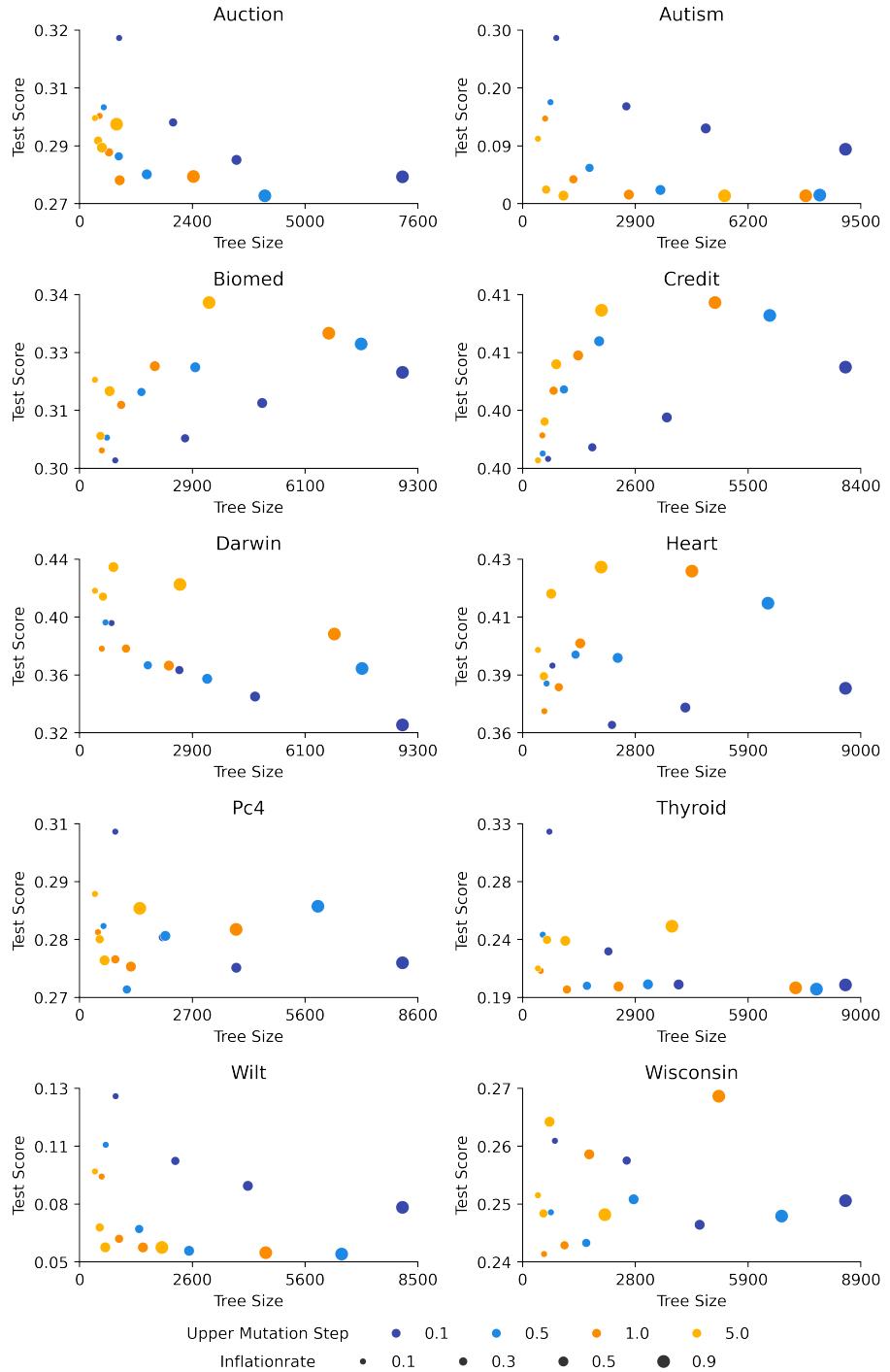


Figure 10: Performance-Complexity-Tradeoff SLIM+SIG1

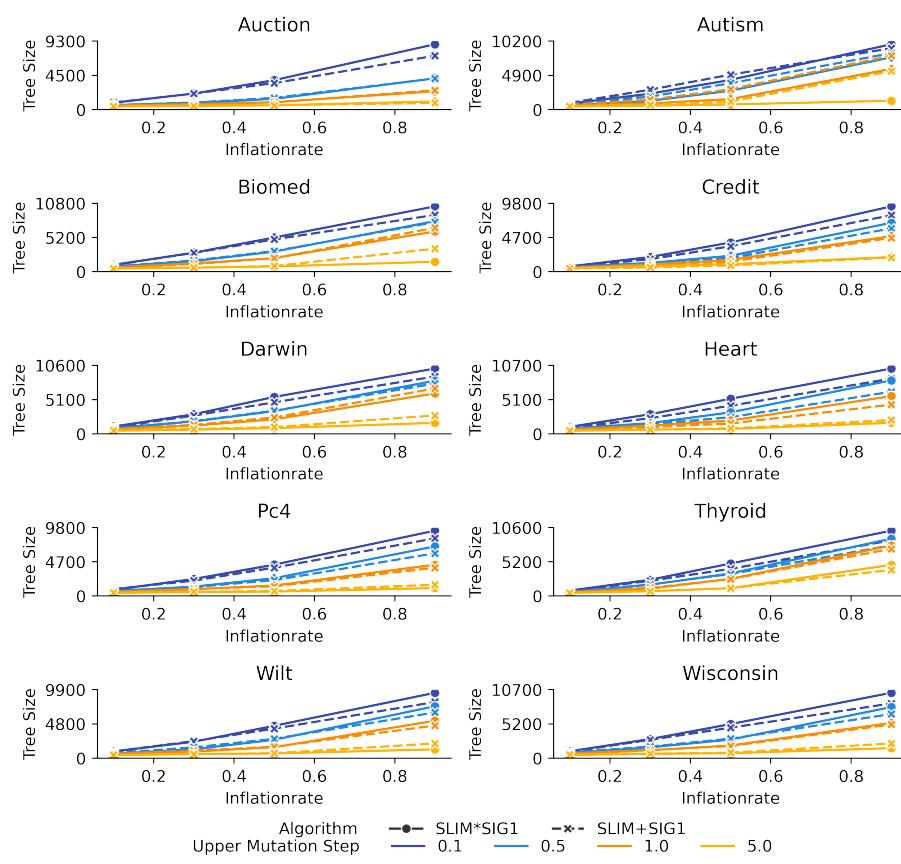


Figure 11: Tree Size by Inflationrate