

	$C = 0.001$	$C = 0.01$	$C = 0.1$	$C = 1$	$C = 10$	$C = 100$	$C = 1000$
$\lambda = 50$	0.009	0.009	0.009	0.064	0.074	0.074	0.074
$\lambda = 100$	0.007	0.007	0.007	0.057	0.065	0.065	0.065
$\lambda = 500$	0.006	0.006	0.006	0.052	0.054	0.054	0.054
$\lambda = 750$	0.005	0.005	0.005	0.045	0.046	0.046	0.046
$\lambda = 1000$	0.006	0.006	0.006	0.055	0.056	0.056	0.056
$\lambda = 5000$	0.006	0.006	0.006	0.056	0.056	0.056	0.056
$\lambda = 10000$	0.007	0.007	0.007	0.061	0.062	0.062	0.062

Table 1: P-values of the non-parametric test based on Mann Whitney statistics to compare AUC-ROC obtained with bagged MLNs and bagged pairwise SVMs (pairwise sum). These values are given for a range of hyperparameter C for SVM and λ for MLN.

	$C = 0.001$	$C = 0.01$	$C = 0.1$	$C = 1$	$C = 10$	$C = 100$	$C = 1000$
$\lambda = 50$	0.092	0.092	0.092	0.206	0.213	0.213	0.213
$\lambda = 100$	0.074	0.074	0.074	0.179	0.183	0.183	0.183
$\lambda = 500$	0.060	0.060	0.060	0.158	0.156	0.156	0.156
$\lambda = 750$	0.052	0.052	0.052	0.141	0.138	0.138	0.138
$\lambda = 1000$	0.065	0.065	0.065	0.167	0.164	0.164	0.164
$\lambda = 5000$	0.065	0.065	0.065	0.169	0.165	0.165	0.165
$\lambda = 10000$	0.069	0.069	0.069	0.180	0.176	0.176	0.176

Table 2: P-values of the non-parametric test based on Mann Whitney statistics to compare AUC-ROC obtained with bagged MLNs and bagged pairwise SVMs (sum). These values are given for a range of hyperparameter C for SVM and λ for MLN.