

Table 1: STANDARD DEVIATIONS OF ALL THE METHODS ON THE ELEVEN DATA SETS WHILE THE INCOMPLETE LABEL RATIO IS 30%

Method	<i>AUC</i> ↑										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.006	0.002	0.002	0.004	0.004	0.005	0.003	0.002	0.007	0.007	0.005
ML ²	0.006	0.002	0.003	0.003	0.003	0.005	0.005	0.006	0.004	0.050	0.030
MLML	0.005	0.001	0.004	0.007	0.006	0.006	0.003	0.005	0.009	0.006	0.004
GLOCAL	0.004	0.001	0.002	0.004	0.003	0.005	0.002	0.002	0.007	0.005	0.005
ESMC	0.004	0.003	0.001	0.002	0.003	0.002	0.006	0.007	0.005	0.007	0.010

Method	<i>Coverage</i> ↓										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.413	0.469	0.504	0.218	0.937	0.205	0.085	0.116	0.353	2.499	0.150
ML ²	0.485	1.657	0.901	0.137	0.810	0.078	0.145	0.248	0.332	13.697	0.441
MLML	0.469	0.365	0.738	0.321	0.885	0.124	0.165	0.188	0.469	2.137	0.089
GLOCAL	0.303	0.227	0.717	0.283	0.669	0.070	0.094	0.126	0.352	2.469	0.116
ESMC	0.307	0.725	0.495	0.128	0.554	0.093	0.211	0.287	0.222	3.424	0.216

Method	<i>Ranking loss</i> ↓										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.006	0.002	0.003	0.004	0.004	0.005	0.002	0.003	0.007	0.007	0.004
ML ²	0.007	0.002	0.003	0.004	0.004	0.002	0.003	0.005	0.005	0.049	0.031
MLML	0.004	0.002	0.003	0.007	0.006	0.005	0.003	0.005	0.010	0.007	0.005
GLOCAL	0.003	0.002	0.003	0.004	0.002	0.001	0.002	0.003	0.005	0.007	0.005
ESMC	0.004	0.003	0.001	0.003	0.003	0.003	0.005	0.005	0.005	0.008	0.009

Method	<i>Average precision</i> ↑										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.006	0.003	0.008	0.006	0.005	0.004	0.010	0.005	0.013	0.008	0.005
ML ²	0.007	0.031	0.005	0.007	0.006	0.003	0.006	0.005	0.010	0.080	0.038
MLML	0.004	0.003	0.004	0.005	0.009	0.011	0.005	0.008	0.013	0.008	0.010
GLOCAL	0.008	0.004	0.004	0.004	0.008	0.009	0.004	0.005	0.014	0.013	0.008
ESMC	0.007	0.005	0.004	0.006	0.009	0.009	0.009	0.013	0.007	0.012	0.005

Table 2: STANDARD DEVIATIONS OF ALL THE METHODS ON THE ELEVEN DATA SETS WHILE THE INCOMPLETE LABEL RATIO IS 70%

Method	<i>AUC</i> ↑										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.005	0.003	0.002	0.002	0.002	0.002	0.003	0.005	0.005	0.015	0.004
ML ²	0.010	0.013	0.050	0.004	0.003	0.004	0.006	0.008	0.009	0.011	0.009
MLML	0.003	0.005	0.002	0.004	0.008	0.005	0.004	0.006	0.009	0.016	0.005
GLOCAL	0.003	0.001	0.002	0.005	0.005	0.007	0.005	0.003	0.008	0.003	0.009
ESMC	0.002	0.003	0.003	0.003	0.005	0.006	0.005	0.004	0.007	0.005	0.005

Method	<i>Coverage</i> ↓										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.322	0.561	0.356	0.095	0.603	0.135	0.169	0.182	0.207	6.269	0.173
ML ²	0.749	5.537	11.515	0.210	0.634	0.233	0.285	0.400	0.372	3.003	0.128
MLML	0.198	0.891	0.563	0.207	1.051	0.181	0.251	0.242	0.447	5.092	0.137
GLOCAL	0.237	0.348	0.690	0.352	0.986	0.285	0.170	0.134	0.365	1.878	0.081
ESMC	0.213	0.865	0.490	0.276	1.155	0.196	0.221	0.111	0.302	4.485	0.145

Method	<i>Ranking loss</i> ↓										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.007	0.002	0.003	0.003	0.002	0.003	0.002	0.003	0.004	0.015	0.004
ML ²	0.011	0.014	0.051	0.004	0.004	0.007	0.006	0.008	0.008	0.011	0.009
MLML	0.003	0.005	0.002	0.003	0.008	0.004	0.005	0.004	0.008	0.018	0.007
GLOCAL	0.004	0.001	0.003	0.005	0.002	0.007	0.003	0.002	0.007	0.004	0.008
ESMC	0.003	0.003	0.003	0.005	0.006	0.006	0.005	0.003	0.005	0.009	0.006

Method	<i>Average precision</i> ↑										
	Corel5k	Corel16k1	Corel16k2	ESP Game	Bibtex	Arts	Business	Education	Science	Stackexchess	Yeast
MSWL	0.007	0.005	0.005	0.004	0.011	0.010	0.006	0.013	0.010	0.016	0.009
ML ²	0.016	0.033	0.029	0.001	0.011	0.011	0.009	0.010	0.009	0.025	0.009
MLML	0.005	0.006	0.005	0.005	0.007	0.005	0.007	0.010	0.011	0.012	0.011
GLOCAL	0.008	0.004	0.005	0.007	0.013	0.011	0.005	0.010	0.010	0.014	0.012
ESMC	0.007	0.002	0.003	0.005	0.007	0.012	0.005	0.005	0.019	0.012	0.009