

1 Measures

x	
1	Hamming Loss
2	Zero-One Loss
3	Tversky Loss A0.5B0.5
4	Ranking Loss
5	MacroPrecisionM
6	MacroRecallM
7	MacroTversky A0.5.B0.5
8	MicroTversky A0.5B.0.5

2 Algorithms

x	
1	PairWise
2	PairWise-FCMK-N
3	PairWise-FCMK-W

3 Average Ranks

	1	2	3
Hamming Loss	2.636	1.712	1.662
Zero-One Loss	2.636	1.727	1.636
Tversky Loss A0.5B0.5	2.455	1.864	1.682
Ranking Loss	1.879	2.091	2.030
MacroPrecisionM	2.697	1.636	1.667
MacroRecallM	1.424	2.364	2.212
MacroTversky A0.5.B0.5	2.545	1.848	1.696
MicroTversky A0.5B.0.5	2.394	1.924	1.682

Table 1: Average ranks

Critical value for Nemenyi test( $\alpha = 0.05$ ) and 33 sets: 0.576979199548027 Critical value for Dunn test( $\alpha = 0.05$ ) and 33 sets: 0.64100054283814

4 Group Test

Test Function: function (y, ...) Test Function: UseMethod("friedman.test")

	GroupTest ~ pValue
Hamming Loss	0.000048
Zero One Loss	0.000000
Tversky Loss A0.5B0.5	0.005553
Ranking Loss	0.623300
MicroPrecisionM	0.000005
MacroRecallM	0.000118
Micro Tversky A0.5B0.5	0.000384
MicroTversky A0.5B0.5	0.012779

Table 2: Group test p-value

5 Pairwise Tests

Correction method:holm  
Test Function: function(x,...)  
Test Function: useMethod("wilcox.test")

	1	2	3
Rank	2.636	1.712	1.652
1		0.000	0.000
2			0.361
3			

Table 3: Pairwise test for Hamming Loss

	1	2	3
Rank	2.636	1.722	1.636
1		0.000	0.000
2			0.148
3			

Table 4: Pairwise test for Zero-One Loss

	1	2	3
Rank	2.455	1.864	1.682
1		0.007	0.005
2			0.054
3			

Table 5: Pairwise test for Tversky Loss 0.5/0.5

	1	2	3
Rank	1.879	2.091	2.030
1		1.000	1.000
2			1.000
3			

Table 6: Pairwise test for RankingLoss

	1	2	3
Rank	2.697	1.636	1.667
1		0.000	0.000
2			0.536
3			

Table 7: Pairwise test for MacroPrecisionM

	1	2	3
Rank	1.424	2.364	2.212
1		0.000	0.000
2			0.320
3			

Table 8: Pairwise test for MacroRecallM

	1	2	3
Rank	2.545	1.848	1.606
1		0.003	0.001
2			0.017
3			

Table 9: Pairwise test for MacroTversky A0.5 B0.5

	1	2	3
Rank	2.394	1.494	1.682
1		0.004	0.003
2			0.057
3			

Table 10: Pairwise test for MicroTversky A0.5B 0.5

6 Alg Vs test

Correction method:holm  
Test Function: function(x,...)  
Test Function: UseMethod("wilcox.test")  
Algorithms: 1 vs test

	1	2	3
Rank	2.636	1.712	1.652
1		0.000	0.000
2			
3			

Table 11: Pairwise test for Hamming Loss

	1	2	3
Rank	2.636	1.727	1.636
1		0.000	0.000
2			
3			

Table 12: Pairwise test for Zero-One Loss

	1	2	3
Rank	2.455	1.864	1.682
1		0.003	0.003
2			
3			

Table 13: Pairwise test for Tversky Loss A0.5B0.5

	1	2	3
Rank	1.879	2.091	2.030
1		1.000	1.000
2			
3			

Table 14: Pairwise test for RankingLoss

	1	2	3
Rank	2.697	1.636	1.667
1		0.000	0.000
2			
3			

Table 15: Pairwise test for MacroPrecisionM

	1	2	3
Rank	1.424	2.364	2.212
1		0.000	0.000
2			
3			

Table 16: Pairwise test for MacroRecallM

	1	2	3
Rank	2.545	1.848	1.606
1		0.001	0.001
2			
3			

Table 17: Pairwise test for Macro Tversky A0.5 B0.5

	1	2	3
Rank	2.394	1.924	1.682
1		0.002	0.002
2			
3			

Table 18: Pairwise test for MicroTversky A0.5B 0.5

7 Given pairs

Correction method:holm  
Test Function: function(x,...)  
Test Function: useMethod("wilcox.test")

	1	2	3
Rank	2.636	1.712	1.652
1		0.000	
2			
3			

Table 19: Pairwise test for Hamming Loss

	1	2	3
Rank	2.636	1.722	1.636
1		0.000	
2			
3			

Table 20: Pairwise test for Zero-One Loss

	1	2	3
Rank	2.455	1.864	1.682
1		0.003	
2			
3			

Table 21: Pairwise test for Tversky Loss@0.5B@0.5

	1	2	3
Rank	1.879	2.091	2.030
1		0.574	
2			
3			

Table 22: Pairwise test for RankingLoss

	1	2	3
Rank	2.697	1.636	1.667
1		0.000	
2			
3			

Table 23: Pairwise test for MacroPrecisionM

	1	2	3
Rank	1.424	2.364	2.212
1		0.000	
2			
3			

Table 24: Pairwise test for MacroRecallM

	1	2	3
Rank	2.545	1.848	1.606
1		0.001	
2			
3			

Table 25: Pairwise test for Macro Tversky A0.5 B0.5

	1	2	3
Rank	2.394	1.494	1.682
1		0.002	
2			
3			

Table 26: Pairwise test for MicroTversky A0.5B 0.5



	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter_vinelandii	0.817	0.470	0.471
birds	0.549	0.137	0.138
Ctenorhabdittis_elegans	0.830	0.283	0.282
Drosophila_melanogaster	0.845	0.509	0.509
eclipse-churn	0.883	0.506	0.470
eclipse-ent	0.836	0.541	0.469
emotions	0.293	0.246	0.246
enron	0.627	0.705	0.705
equinox-churn	0.915	0.915	0.915
equinox-ent	0.915	0.915	0.915
flags	0.469	0.337	0.330
grubase	0.902	0.410	0.410
Geobacter-sulfurreducens	0.493	0.286	0.287
Halorcula_marismortui	0.592	0.752	0.752
HumanSH0	0.532	0.237	0.236
lucene-churn	0.981	0.981	0.981
lucene-ent	0.981	0.981	0.981
stallion	0.241	0.251	0.251
nylva-churn	0.896	0.699	0.562
nylva-ent	0.862	0.352	0.311
pde-churn	0.775	0.883	0.728
pde-ent	0.774	0.867	0.730
Pima978	0.414	0.356	0.358
pyrococcus_furiosus	0.703	0.608	0.610
Saccharomyces_cerevisiae	0.812	0.664	0.664
scene	0.329	0.115	0.115
simpleHC	0.338	0.109	0.109
simpleHS	0.529	0.599	0.599
SLASHDOT-F	0.885	0.263	0.263
stackex_chemistry	0.421	0.168	0.168
stackex_chess	0.462	0.168	0.167
tmc2007-500_sub_0	0.186	0.186	0.186
yaset	0.438	0.300	0.300

Table 27: Mean value for: Hamming Loss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter_vinelandii	1.000	0.985	0.990
birds	1.000	0.960	0.960
Ctenorhabdittis_elegans	1.000	0.865	0.865
Drosophila_melanogaster	1.000	0.999	0.999
eclipse-churn	1.000	0.992	0.991
eclipse-ent	1.000	0.996	0.986
emotions	0.886	0.837	0.838
enron	1.000	1.000	1.000
equinox-churn	1.000	1.000	1.000
equinox-ent	1.000	1.000	1.000
flags	1.000	0.948	0.933
grubase	1.000	1.000	1.000
Geobacter-sulfurreducens	0.997	0.968	0.968
Halorcula_marismortui	1.000	1.000	1.000
HumanSH0	1.000	0.992	0.991
lucene-churn	1.000	1.000	1.000
lucene-ent	1.000	1.000	1.000
stallion	0.947	0.759	0.759
nylva-churn	0.999	0.995	0.993
nylva-ent	0.999	0.980	0.968
pde-churn	1.000	1.000	0.997
pde-ent	1.000	1.000	1.000
Pima978	1.000	0.998	1.000
pyrococcus_furiosus	1.000	1.000	1.000
Saccharomyces_cerevisiae	1.000	1.000	1.000
scene	0.988	0.519	0.519
simpleHC	0.996	0.667	0.667
simpleHS	1.000	1.000	1.000
SLASHDOT-F	1.000	0.999	0.999
stackex_chemistry	1.000	0.959	0.959
stackex_chess	1.000	0.964	0.962
tmc2007-500_sub_0	1.000	0.970	0.970
yaset	1.000	0.981	0.981

Table 28: Mean value for: Zero One Loss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
<i>Azotobacter.vinelandii</i>	0.826	0.844	0.850
<i>birds</i>	0.861	0.781	0.781
<i>Caenorhabditis.elegans</i>	0.830	0.767	0.763
<i>Drosophila.melanogaster</i>	0.830	0.825	0.825
<i>eclipse-churn</i>	0.914	0.884	0.880
<i>eclipse-ent</i>	0.913	0.888	0.874
<i>emotions</i>	0.371	0.355	0.355
<i>exon</i>	0.837	0.855	0.855
<i>equinox-churn</i>	0.862	0.862	0.862
<i>equinox-ent</i>	0.862	0.862	0.862
<i>flags</i>	0.363	0.393	0.297
<i>genbase</i>	0.907	0.963	0.963
<i>Gridacter.sulfureducus</i>	0.775	0.732	0.744
<i>Haemophilus.influenzae</i>	0.792	0.816	0.816
<i>Human3160</i>	0.770	0.696	0.695
<i>lucene-churn</i>	0.969	0.969	0.969
<i>lucene-ent</i>	0.969	0.969	0.969
<i>mailing</i>	0.461	0.439	0.439
<i>nylva-churn</i>	0.931	0.928	0.922
<i>nylva-ent</i>	0.930	0.913	0.908
<i>pde-churn</i>	0.935	0.938	0.930
<i>pde-ent</i>	0.935	0.938	0.931
<i>Plant78</i>	0.723	0.742	0.744
<i>pyrococcus.furiosus</i>	0.796	0.788	0.788
<i>Saccharomyces.cerevisiae</i>	0.874	0.873	0.873
<i>scene</i>	0.486	0.339	0.339
<i>simpleHC</i>	0.565	0.316	0.316
<i>simpleHS</i>	0.613	0.619	0.619
<i>SLASHDOT-F</i>	0.894	0.834	0.834
<i>stackex.chemistry</i>	0.790	0.722	0.722
<i>stackex.chess</i>	0.776	0.686	0.685
<i>tmc2007-500.sub.0</i>	0.475	0.526	0.526
<i>yeast</i>	0.475	0.398	0.398

Table 29: Mean value for: Tversky-LossA0.5B0.5

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
<i>Azotobacter.vinelandii</i>	0.259	0.227	0.228
<i>birds</i>	0.148	0.155	0.155
<i>Caenorhabditis.elegans</i>	0.194	0.175	0.175
<i>Drosophila.melanogaster</i>	0.181	0.179	0.179
<i>eclipse-churn</i>	0.005	0.009	0.009
<i>eclipse-ent</i>	0.005	0.010	0.008
<i>emotions</i>	0.254	0.220	0.220
<i>exon</i>	0.222	0.334	0.334
<i>equinox-churn</i>	0.003	0.003	0.003
<i>equinox-ent</i>	0.003	0.003	0.003
<i>flags</i>	0.216	0.257	0.252
<i>genbase</i>	0.144	0.268	0.268
<i>Gridacter.sulfureducus</i>	0.151	0.152	0.146
<i>Haemophilus.influenzae</i>	0.197	0.285	0.285
<i>Human3160</i>	0.279	0.308	0.309
<i>lucene-churn</i>	0.000	0.000	0.000
<i>lucene-ent</i>	0.000	0.000	0.000
<i>mailing</i>	0.284	0.277	0.277
<i>nylva-churn</i>	0.004	0.016	0.013
<i>nylva-ent</i>	0.006	0.014	0.012
<i>pde-churn</i>	0.002	0.006	0.006
<i>pde-ent</i>	0.002	0.005	0.005
<i>Plant78</i>	0.257	0.322	0.325
<i>pyrococcus.furiosus</i>	0.194	0.218	0.220
<i>Saccharomyces.cerevisiae</i>	0.173	0.148	0.148
<i>scene</i>	0.200	0.182	0.182
<i>simpleHC</i>	0.286	0.203	0.203
<i>simpleHS</i>	0.376	0.449	0.449
<i>SLASHDOT-F</i>	0.436	0.327	0.327
<i>stackex.chemistry</i>	0.185	0.196	0.196
<i>stackex.chess</i>	0.202	0.180	0.179
<i>tmc2007-500.sub.0</i>	0.198	0.168	0.168
<i>yeast</i>	0.261	0.249	0.249

Table 30: Mean value for: Ranking-Loss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
<i>Azotobacter.vinelandii</i>	0.875	0.899	0.907
<i>birds</i>	0.890	0.726	0.726
<i>Caenorhabditis.elegans</i>	0.871	0.869	0.869
<i>Drosophila.melanogaster</i>	0.875	0.736	0.739
<i>eclipse-churn</i>	0.946	0.854	0.853
<i>eclipse-ent</i>	0.946	0.825	0.792
<i>emotions</i>	0.469	0.400	0.400
<i>exon</i>	0.921	0.911	0.911
<i>equinox-churn</i>	0.915	0.915	0.915
<i>equinox-ent</i>	0.915	0.915	0.915
<i>flags</i>	0.461	0.453	0.447
<i>genbase</i>	0.916	0.838	0.838
<i>Gridacter.sulfureducus</i>	0.837	0.732	0.748
<i>Haemophilus.influenzae</i>	0.817	0.880	0.880
<i>Human3160</i>	0.903	0.822	0.822
<i>lucene-churn</i>	0.981	0.981	0.981
<i>lucene-ent</i>	0.981	0.981	0.981
<i>mailing</i>	0.585	0.462	0.462
<i>nylva-churn</i>	0.953	0.921	0.875
<i>nylva-ent</i>	0.955	0.912	0.879
<i>pde-churn</i>	0.961	0.903	0.871
<i>pde-ent</i>	0.961	0.903	0.873
<i>Plant78</i>	0.867	0.846	0.848
<i>pyrococcus.furiosus</i>	0.855	0.829	0.828
<i>Saccharomyces.cerevisiae</i>	0.869	0.895	0.895
<i>scene</i>	0.627	0.302	0.302
<i>simpleHC</i>	0.681	0.112	0.112
<i>simpleHS</i>	0.732	0.742	0.742
<i>SLASHDOT-F</i>	0.937	0.779	0.780
<i>stackex.chemistry</i>	0.852	0.721	0.722
<i>stackex.chess</i>	0.838	0.631	0.632
<i>tmc2007-500.sub.0</i>	0.799	0.724	0.724
<i>yeast</i>	0.627	0.585	0.585

Table 31: Mean value for: MacroPrecisionM

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter_vinelandii</i>	0.064	0.447	0.448
birds	0.108	0.541	0.541
<i>Ceomorphaditis_elegans</i>	0.043	0.672	0.673
<i>Drosophila_melanogaster</i>	0.031	0.313	0.313
ellipse-churn	0.220	0.419	0.379
ellipse-ent	0.270	0.381	0.341
emotions	0.155	0.229	0.228
etron	0.290	0.252	0.251
equinox-churn	0.640	0.640	0.640
equinox-ent	0.640	0.640	0.640
flags	0.116	0.245	0.251
genbase	0.274	0.584	0.584
<i>Geobacter_sulfurreducens</i>	0.287	0.177	0.461
<i>Halorculis_marismortui</i>	0.202	0.117	0.117
Human3160	0.281	0.590	0.604
lucene-churn	0.800	0.800	0.800
lucene-ent	0.800	0.800	0.800
minifling	0.189	0.347	0.347
nylva-churn	0.227	0.413	0.468
nylvs-ent	0.290	0.021	0.021
pde-churn	0.450	0.240	0.240
pds-ent	0.450	0.260	0.260
Plant978	0.335	0.461	0.454
<i>pyrococcus_furiosus</i>	0.116	0.215	0.215
<i>Saccharomyces_cerevisiae</i>	0.091	0.216	0.216
scene	0.046	0.275	0.278
simpleHC	0.324	0.506	0.506
simpleHS	0.280	0.186	0.186
SLASHDOT-F	0.162	0.572	0.572
stackex.chemistry	0.146	0.466	0.466
stackex.chess	0.130	0.426	0.426
tmc2007-500.snh.0	0.119	0.494	0.493
yeast	0.245	0.354	0.356

Table 32: Mean value for: MacroRecallM

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter_vinelandii</i>	0.194	0.815	0.817
birds	0.524	0.710	0.710
<i>Ceomorphaditis_elegans</i>	0.786	0.854	0.854
<i>Drosophila_melanogaster</i>	0.782	0.711	0.712
ellipse-churn	0.908	0.820	0.758
ellipse-ent	0.908	0.804	0.772
emotions	0.454	0.339	0.339
etron	0.873	0.881	0.881
equinox-churn	0.877	0.877	0.877
equinox-ent	0.877	0.877	0.877
flags	0.384	0.382	0.367
genbase	0.878	0.824	0.824
<i>Geobacter_sulfurreducens</i>	0.746	0.790	0.698
<i>Halorculis_marismortui</i>	0.731	0.795	0.795
Human3160	0.837	0.791	0.791
lucene-churn	0.966	0.966	0.966
lucene-ent	0.966	0.966	0.966
minifling	0.453	0.424	0.424
nylva-churn	0.915	0.910	0.880
nylvs-ent	0.919	0.919	0.891
pde-churn	0.930	0.873	0.826
pds-ent	0.930	0.873	0.836
Plant978	0.790	0.797	0.796
<i>pyrococcus_furiosus</i>	0.765	0.760	0.758
<i>Saccharomyces_cerevisiae</i>	0.340	0.826	0.826
scene	0.470	0.296	0.296
simpleHC	0.568	0.372	0.372
simpleHS	0.628	0.627	0.626
SLASHDOT-F	0.803	0.783	0.783
stackex.chemistry	0.754	0.654	0.654
stackex.chess	0.740	0.610	0.610
tmc2007-500.snh.0	0.696	0.687	0.687
yeast	0.539	0.514	0.514

Table 33: Mean value for: MacroTversky A0.5 B0.5

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter_vinelandii</i>	0.780	0.801	0.801
birds	0.846	0.725	0.725
<i>Ceomorphaditis_elegans</i>	0.787	0.811	0.812
<i>Drosophila_melanogaster</i>	0.783	0.755	0.755
ellipse-churn	0.895	0.811	0.811
ellipse-ent	0.890	0.849	0.821
emotions	0.355	0.334	0.334
etron	0.835	0.857	0.856
equinox-churn	0.844	0.844	0.844
equinox-ent	0.844	0.844	0.844
flags	0.350	0.290	0.284
genbase	0.906	0.963	0.963
<i>Geobacter_sulfurreducens</i>	0.724	0.683	0.677
<i>Halorculis_marismortui</i>	0.735	0.789	0.789
Human3160	0.769	0.691	0.691
lucene-churn	0.964	0.964	0.964
lucene-ent	0.964	0.964	0.964
minifling	0.460	0.436	0.436
nylva-churn	0.907	0.885	0.875
nylvs-ent	0.907	0.840	0.822
pde-churn	0.915	0.921	0.904
pds-ent	0.915	0.919	0.907
Plant978	0.725	0.743	0.744
<i>pyrococcus_furiosus</i>	0.761	0.750	0.750
<i>Saccharomyces_cerevisiae</i>	0.839	0.831	0.831
scene	0.491	0.310	0.310
simpleHC	0.566	0.366	0.366
simpleHS	0.599	0.604	0.604
SLASHDOT-F	0.803	0.828	0.828
stackex.chemistry	0.774	0.692	0.692
stackex.chess	0.766	0.643	0.643
tmc2007-500.snh.0	0.668	0.543	0.543
yeast	0.462	0.384	0.384

Table 34: Mean value for: MicroTversky A0.5B 0.5

9 Combined Means

	Hamming_Loss_PairWise	Hamming_Loss_PairWise_FCMK_N	Hamming_Loss_PairWise_FCMK_W	Zero_One_Loss_PairWise	Zero_One_Loss_PairWise_FCMK_N	Zero_One_Loss_PairWise_FCMK_W	Tversky_LossA0.5B0.5_PairWise	Tversky_LossA0.5B0.5_PairWise_FCMK_N	Tversky_LossA0.5B0.5_PairWise_FCMK_W	Ranking_Loss_PairWise	Ranking_Loss_PairWise_FCMK_N	Ranking_Loss_PairWise_FCMK_W	MacroPrecisionM_PairWise	MacroPrecisionM_PairWise_FCMK_N	MacroPrecisionM_PairWise_FCMK_W	MacroRecallM_PairWise	MacroRecallM_PairWise_FCMK_N	MacroRecallM_PairWise_FCMK_W
Azotobacter_vinelandii	0.817	0.470	0.471	1.000	0.985	0.990	0.826	0.844	0.850	0.259	0.227	0.228	0.875	0.899	0.907	0.061	0.047	
birds	0.549	0.137	0.138	1.000	0.960	0.960	0.861	0.781	0.781	0.148	0.155	0.155	0.890	0.726	0.726	0.168	0.241	
Caeonorbahditis_elegans	0.880	0.283	0.282	1.000	0.860	0.855	0.830	0.767	0.763	0.194	0.175	0.175	0.871	0.869	0.869	0.043	0.072	
Drosophila_melanogaster	0.845	0.509	0.509	1.000	0.999	0.999	0.830	0.825	0.825	0.181	0.179	0.179	0.875	0.736	0.739	0.031	0.313	
eclipse-churn	0.883	0.506	0.470	1.000	0.992	0.991	0.914	0.880	0.884	0.005	0.009	0.009	0.946	0.854	0.833	0.220	0.419	
eclipse-ent	0.886	0.541	0.469	1.000	0.996	0.980	0.913	0.888	0.874	0.005	0.010	0.008	0.946	0.825	0.770	0.381	0.792	
emotions	0.293	0.246	0.246	0.886	0.837	0.838	0.371	0.355	0.355	0.254	0.220	0.220	0.469	0.400	0.400	0.155	0.229	
enron	0.627	0.705	0.705	1.000	0.855	1.000	0.837	0.855	1.000	0.222	0.334	0.333	0.921	0.911	0.911	0.260	0.292	
equinox-churn	0.915	0.915	0.915	1.000	0.862	1.000	0.862	0.862	0.862	0.003	0.003	0.003	0.915	0.915	0.915	0.640	0.640	
equinox-ent	0.915	0.915	0.915	1.000	0.862	1.000	0.862	0.862	0.862	0.003	0.003	0.003	0.915	0.915	0.915	0.640	0.640	
flags	0.460	0.337	0.330	1.000	0.948	1.000	0.363	0.297	0.257	0.252	0.257	0.447	0.880	0.447	0.447	0.245	0.245	
grubosa	0.902	0.410	0.410	1.000	0.963	1.000	0.963	0.963	0.963	0.144	0.268	0.268	0.916	0.838	0.838	0.274	0.354	
Geobacter_sulfurreducens	0.493	0.286	0.287	0.997	0.968	0.968	0.775	0.752	0.752	0.151	0.152	0.146	0.837	0.732	0.748	0.287	0.477	
Halosarcula_matisenortui	0.592	0.752	0.752	1.000	0.816	1.000	0.769	0.816	0.816	0.197	0.285	0.285	0.817	0.880	0.880	0.202	0.117	
Human3160	0.522	0.237	0.236	1.000	0.992	0.991	0.770	0.696	0.695	0.279	0.308	0.309	0.983	0.822	0.822	0.281	0.590	
lucene-churn	0.981	0.981	0.981	1.000	1.000	1.000	0.969	0.969	0.969	0.000	0.000	0.000	0.981	0.981	0.981	0.800	0.800	
lucene-ent	0.981	0.981	0.981	1.000	1.000	1.000	0.969	0.969	0.969	0.000	0.000	0.000	0.981	0.981	0.981	0.800	0.800	
mailing	0.341	0.251	0.251	0.947	0.729	0.760	0.461	0.439	0.284	0.277	0.277	0.277	0.585	0.462	0.462	0.189	0.347	
mylyn-churn	0.896	0.699	0.562	0.999	0.995	0.993	0.931	0.922	0.922	0.004	0.016	0.013	0.953	0.921	0.875	0.227	0.413	
mylyn-ent	0.862	0.332	0.311	0.999	0.968	0.968	0.933	0.908	0.908	0.014	0.006	0.014	0.955	0.912	0.879	0.290	0.621	
pds-churn	0.775	0.883	0.728	1.000	0.997	0.995	0.935	0.938	0.938	0.002	0.006	0.006	0.961	0.903	0.871	0.450	0.240	
pds-ent	0.774	0.867	0.730	1.000	0.938	1.000	0.935	0.931	0.931	0.002	0.005	0.005	0.961	0.903	0.873	0.450	0.260	
Plant978	0.414	0.356	0.358	1.000	0.998	1.000	0.723	0.743	0.743	0.257	0.322	0.325	0.867	0.848	0.848	0.335	0.461	
pyrococcus_ferrous	0.703	0.668	0.610	1.000	0.796	1.000	0.788	0.788	0.788	0.194	0.218	0.218	0.855	0.829	0.828	0.116	0.215	
Saccharomyces_cerevisiae	0.812	0.664	0.664	1.000	0.874	1.000	0.873	0.873	0.873	0.173	0.148	0.148	0.909	0.895	0.895	0.091	0.216	
scene	0.329	0.115	0.115	0.888	0.519	0.519	0.486	0.339	0.339	0.200	0.182	0.182	0.627	0.362	0.362	0.046	0.278	
simpleHC	0.338	0.109	0.109	0.996	0.667	0.667	0.316	0.286	0.286	0.203	0.203	0.203	0.681	0.112	0.112	0.324	0.506	
simpleHS	0.529	0.599	0.599	1.000	0.613	1.000	0.619	0.619	0.619	0.376	0.449	0.449	0.732	0.742	0.742	0.280	0.186	
SLASHDOT-F	0.895	0.263	0.263	1.000	0.999	1.000	0.894	0.834	0.834	0.327	0.327	0.327	0.937	0.779	0.779	0.162	0.572	
stackex_chemistry	0.421	0.168	0.168	1.000	0.559	0.559	0.722	0.722	0.198	0.185	0.198	0.722	0.852	0.721	0.722	0.146	0.466	
stackex_csharp	0.462	0.168	0.167	1.000	0.964	0.962	0.776	0.686	0.685	0.202	0.189	0.179	0.838	0.631	0.632	0.130	0.426	
tmc2007-500_sub.0	0.396	0.136	0.136	0.970	0.675	0.675	0.326	0.198	0.198	0.198	0.198	0.198	0.799	0.724	0.724	0.119	0.494	
ysst	0.438	0.300	0.300	1.000	0.981	0.981	0.475	0.398	0.398	0.261	0.249	0.249	0.627	0.585	0.585	0.245	0.354	

Table 35: Combined Mean values

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter_vinelandii	3.000	1.000	2.000
birds	3.000	1.000	2.000
Caeenorhabditis_elegans	3.000	2.000	1.000
Drosophila_melanogaster	3.000	1.000	2.000
eclipse-churn	3.000	2.000	1.000
eclipse-ent	3.000	2.000	1.000
enotious	3.000	1.000	2.000
enron	1.000	2.000	3.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
grubase	3.000	1.500	1.500
Geobacter_sulfurreducens	3.000	1.000	2.000
Halorcula_marismortui	1.000	2.500	2.500
HumanSHO	3.000	2.000	1.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
stallion	3.000	1.000	2.000
nylva-churn	3.000	2.000	1.000
nylva-ent	3.000	2.000	1.000
pds-churn	2.000	3.000	1.000
pds-ent	2.000	3.000	1.000
Pima78	3.000	1.000	2.000
pyrococcus_furiosus	3.000	1.000	2.000
Saccharomyces_cerevisiae	3.000	1.000	2.000
scene	3.000	1.000	2.000
simpleHC	3.000	1.500	1.500
simpleHS	1.000	3.000	2.000
SLASHDOT-F	3.000	1.000	2.000
stackex_chemistry	3.000	1.000	2.000
stackex_chess	3.000	2.000	1.000
tmc2007-500_sub.0	3.000	2.000	1.000
ysnet	3.000	2.000	1.000

Table 36: Ranks for: Hamming Loss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter_vinelandii	3.000	1.000	2.000
birds	3.000	1.500	1.500
Caeenorhabditis_elegans	3.000	2.000	1.000
Drosophila_melanogaster	3.000	1.500	1.500
eclipse-churn	3.000	2.000	1.000
eclipse-ent	3.000	2.000	1.000
enotious	3.000	1.000	2.000
enron	2.000	2.000	2.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
grubase	2.000	2.000	2.000
Geobacter_sulfurreducens	3.000	1.500	1.500
Halorcula_marismortui	2.000	2.000	2.000
HumanSHO	3.000	2.000	1.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
stallion	3.000	1.000	2.000
nylva-churn	3.000	2.000	1.000
nylva-ent	3.000	2.000	1.000
pds-churn	2.500	2.500	1.000
pds-ent	2.000	2.000	2.000
Pima78	2.500	1.000	2.500
pyrococcus_furiosus	2.000	2.000	2.000
Saccharomyces_cerevisiae	2.000	2.000	2.000
scene	3.000	1.000	2.000
simpleHC	3.000	1.500	1.500
simpleHS	2.000	2.000	2.000
SLASHDOT-F	3.000	1.500	1.500
stackex_chemistry	3.000	1.000	2.000
stackex_chess	3.000	2.000	1.000
tmc2007-500_sub.0	3.000	1.500	1.500
ysnet	3.000	1.500	1.500

Table 37: Ranks for: Zero-One Loss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter.vinelandii	1.000	2.000	3.000
birds	3.000	1.000	2.000
Caenorhabditis.elegans	3.000	2.000	1.000
Drosophila.melanogaster	3.000	1.000	2.000
ellipse-churn	3.000	2.000	1.000
ellipse-ent	3.000	2.000	1.000
emotions	3.000	1.000	2.000
exon	1.000	3.000	2.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
genbase	1.000	2.500	2.500
Gridbacter-sulfureducus	3.000	2.000	1.000
Haemaphys.machemeri	1.000	2.500	2.500
Human3160	3.000	2.000	1.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	3.000	1.000	2.000
nylva-churn	3.000	2.000	1.000
nylva-ent	3.000	2.000	1.000
pde-churn	2.000	3.000	1.000
pde-ent	2.000	3.000	1.000
Plant578	1.000	2.000	3.000
pyrococcus.furiosus	3.000	1.000	2.000
Saccharomyces.cerevisiae	3.000	1.000	2.000
scene	3.000	1.000	2.000
simpleRC	3.000	1.500	1.500
simpleHS	1.000	3.000	2.000
SLASHDOT-F	3.000	1.000	2.000
stackex.chemistry	3.000	1.000	2.000
stackex.chess	3.000	2.000	1.000
tmc2007-500.ssh.0	3.000	2.000	1.000
yeast	3.000	2.000	1.000

Table 38: Ranks for: TverskyLoss@0.5@0.5

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter.vinelandii	3.000	1.000	2.000
birds	1.000	2.000	3.000
Caenorhabditis.elegans	3.000	1.000	2.000
Drosophila.melanogaster	3.000	1.000	2.000
ellipse-churn	1.000	3.000	2.000
ellipse-ent	1.000	3.000	2.000
emotions	3.000	2.000	1.000
exon	1.000	3.000	2.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	1.000	3.000	2.000
genbase	1.000	2.500	2.500
Gridbacter-sulfureducus	2.000	3.000	1.000
Haemaphys.machemeri	1.000	2.500	2.500
Human3160	1.000	2.000	3.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	3.000	1.000	2.000
nylva-churn	1.000	3.000	2.000
nylva-ent	1.000	3.000	2.000
pde-churn	1.000	2.500	2.500
pde-ent	1.000	2.500	2.500
Plant578	1.000	2.000	3.000
pyrococcus.furiosus	1.000	2.000	3.000
Saccharomyces.cerevisiae	3.000	1.500	1.500
scene	3.000	1.000	1.000
simpleRC	3.000	1.500	1.500
simpleHS	1.000	3.000	2.000
SLASHDOT-F	3.000	1.000	2.000
stackex.chemistry	1.000	2.000	3.000
stackex.chess	3.000	2.000	1.000
tmc2007-500.ssh.0	3.000	2.000	1.000
yeast	3.000	1.000	2.000

Table 39: Ranks for: RankingLoss

	PairWise	PairWise-FCMK-N	PairWise-FCMK-W
Azotobacter.vinelandii	1.000	2.000	3.000
birds	3.000	1.500	1.500
Caenorhabditis.elegans	3.000	2.000	1.000
Drosophila.melanogaster	3.000	1.000	2.000
ellipse-churn	3.000	2.000	1.000
ellipse-ent	3.000	2.000	1.000
emotions	3.000	1.000	2.000
exon	3.000	1.000	2.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
genbase	3.000	1.500	1.500
Gridbacter-sulfureducus	3.000	1.000	2.000
Haemaphys.machemeri	1.000	2.500	2.500
Human3160	3.000	1.000	2.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	3.000	1.000	2.000
nylva-churn	3.000	2.000	1.000
nylva-ent	3.000	2.000	1.000
pde-churn	3.000	2.000	1.000
pde-ent	3.000	2.000	1.000
Plant578	3.000	1.000	2.000
pyrococcus.furiosus	3.000	2.000	1.000
Saccharomyces.cerevisiae	3.000	1.000	2.000
scene	3.000	2.000	1.000
simpleRC	3.000	1.500	1.500
simpleHS	1.000	3.000	2.000
SLASHDOT-F	3.000	1.000	2.000
stackex.chemistry	3.000	1.000	2.000
stackex.chess	3.000	1.000	2.000
tmc2007-500.ssh.0	3.000	2.000	1.000
yeast	3.000	1.000	2.000

Table 40: Ranks for: MacroPrecisionM

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter.vinelandii</i>	1.000	2.000	3.000
birds	1.000	2.500	2.500
<i>Caenorhabditis.elegans</i>	1.000	2.000	3.000
<i>Drosophila.melanogaster</i>	1.000	2.500	2.500
ellipse-churn	1.000	3.000	2.000
ellipse-ent	1.000	3.000	2.000
emotions	1.000	3.000	2.000
etron	3.000	2.000	1.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	1.000	3.000	2.000
genbase	1.000	2.500	2.500
<i>Geobacter.sulfurreducens</i>	1.000	3.000	2.000
<i>Halorculis.marismortui</i>	3.000	1.500	1.500
Human3160	1.000	2.000	3.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	1.000	2.500	2.500
nyltya-churn	1.000	2.000	3.000
nyltya-ent	1.000	3.000	2.000
pde-churn	3.000	1.500	1.500
pde-ent	3.000	1.500	1.500
Plant978	1.000	3.000	2.000
<i>pyrococcus.furiosus</i>	1.000	2.000	3.000
<i>Saccharomyces.cerevisiae</i>	1.000	2.500	2.500
scene	1.000	2.500	2.500
simpleHC	1.000	2.500	2.500
simpleHS	3.000	2.000	1.000
SLASHDOT-F	1.000	2.500	2.500
stackex.chemistry	1.000	2.500	2.500
stackex.csharp	1.000	3.000	2.000
tmc2007-500.snh.0	1.000	3.000	2.000
yeast	1.000	2.000	3.000

Table 41: Ranks for: MacroRecallM

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter.vinelandii</i>	1.000	2.000	3.000
birds	3.000	1.500	1.500
<i>Caenorhabditis.elegans</i>	1.000	2.000	3.000
<i>Drosophila.melanogaster</i>	3.000	1.000	2.000
ellipse-churn	3.000	2.000	1.000
ellipse-ent	3.000	2.000	1.000
emotions	3.000	2.000	1.000
etron	1.000	2.000	3.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
genbase	3.000	1.500	1.500
<i>Geobacter.sulfurreducens</i>	3.000	2.000	1.000
<i>Halorculis.marismortui</i>	1.000	2.500	2.500
Human3160	3.000	2.000	1.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	3.000	1.000	2.000
nyltya-churn	3.000	2.000	1.000
nyltya-ent	2.000	3.000	1.000
pde-churn	3.000	2.000	1.000
pde-ent	3.000	2.000	1.000
Plant978	1.000	3.000	2.000
<i>pyrococcus.furiosus</i>	3.000	2.000	1.000
<i>Saccharomyces.cerevisiae</i>	3.000	1.000	2.000
scene	3.000	2.000	1.000
simpleHC	3.000	1.500	1.500
simpleHS	3.000	2.000	1.000
SLASHDOT-F	3.000	1.000	2.000
stackex.chemistry	3.000	1.000	2.000
stackex.csharp	3.000	2.000	1.000
tmc2007-500.snh.0	3.000	2.000	1.000
yeast	3.000	1.000	2.000

Table 42: Ranks for: Macro Tversky A0.5 B0.5

	PairWise	PairWise-FCMR-N	PairWise-FCMR-W
<i>Azotobacter.vinelandii</i>	1.000	2.000	3.000
birds	3.000	1.000	2.000
<i>Caenorhabditis.elegans</i>	1.000	2.000	3.000
<i>Drosophila.melanogaster</i>	3.000	1.000	2.000
ellipse-churn	3.000	2.000	1.000
ellipse-ent	3.000	2.000	1.000
emotions	3.000	2.000	1.000
etron	1.000	3.000	2.000
equinox-churn	2.000	2.000	2.000
equinox-ent	2.000	2.000	2.000
flags	3.000	2.000	1.000
genbase	1.000	2.500	2.500
<i>Geobacter.sulfurreducens</i>	3.000	2.000	1.000
<i>Halorculis.marismortui</i>	1.000	2.500	2.500
Human3160	3.000	2.000	1.000
lucene-churn	2.000	2.000	2.000
lucene-ent	2.000	2.000	2.000
minifling	3.000	1.000	2.000
nyltya-churn	3.000	2.000	1.000
nyltya-ent	3.000	2.000	1.000
pde-churn	2.000	3.000	1.000
pde-ent	2.000	3.000	1.000
Plant978	1.000	2.000	3.000
<i>pyrococcus.furiosus</i>	3.000	1.000	2.000
<i>Saccharomyces.cerevisiae</i>	3.000	1.000	2.000
scene	3.000	2.000	1.000
simpleHC	3.000	1.500	1.500
simpleHS	1.000	3.000	2.000
SLASHDOT-F	3.000	1.000	2.000
stackex.chemistry	3.000	1.000	2.000
stackex.csharp	3.000	2.000	1.000
tmc2007-500.snh.0	3.000	2.000	1.000
yeast	3.000	2.000	1.000

Table 43: Ranks for: MicroTversky A0.5B 0.5