

1 Measures

x
1 Hamming Loss
2 Zero-One Loss
3 X1.Prec.Loss
4 X1.Rec.Loss
5 Tversky.Loss.A0.5B0.5
6 MacroPrecisionM
7 MacroRecallM
8 Macro.Tversky.A0.5.B0.5
9 MicroPrecisionM
10 MicroRecallM
11 MicroTversky.A0.5B.0.5

2 Algorithms

x
1 BR-ref
2 BR-MB
3 BR-RBC

3 Average Ranks

	1	2	3
Hamming Loss	1.741	2.017	2.241
Zero-One Loss	1.914	2.017	2.009
X1.Prec.Loss	1.845	2.086	2.009
X1.Rec.Loss	1.983	2.155	1.862
Tversky.Loss.A0.5B0.5	1.948	2.017	2.034
MacroPrecisionM	2.259	1.672	2.009
MacroRecallM	2.397	2.092	1.552
Macro.Tversky.A0.5.B0.5	2.397	1.983	1.621
MicroPrecisionM	1.903	2.121	2.276
MicroRecallM	2.293	2.121	1.586
MicroTversky.A0.5B.0.5	2.224	2.017	1.759

Table 1: Average ranks

Critical value for Nemenyi test($\alpha = 0.05$) and 29 sets: 0.61548592777733 Critical value for Dunn test($\alpha = 0.05$) and 29 sets: 0.683779959699682

4 Group Test

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

	GroupTest ~ pValue
Hamming Loss	0.957889
Zero One Loss	1.000000
X1.Prec.Loss	1.000000
X1.Rec.Loss	1.000000
Tversky Loss_A0.5B0.5	1.000000
MacroPrecisionM	0.510951
MacroRecallM	0.056114
Macro.Tversky_A0.5.B0.5	0.121710
MicroPrecisionM	0.212961
MicroRecallM	0.169198
MicroTversky_A0.5B0.5	1.000000

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	1.741	2.017	2.241
1		0.108	0.005
2			0.005

Table 3: Pairwise test for Hamming Loss

	1	2	3
Rank	1.914	2.017	2.069
1		1.000	1.000
2			1.000

Table 4: Pairwise test for Zero One Loss

	1	2	3
Rank	1.845	2.086	2.069
1		0.999	0.999
2			0.999

Table 5: Pairwise test for X1.Prec Loss

	1	2	3
Rank	1.983	2.155	1.862
1		0.776	0.693
2			0.570

Table 6: Pairwise test for X1.Rcv Loss

	1	2	3
Rank	1.948	2.017	2.031
1		1.000	1.000
2			1.000

Table 7: Pairwise test for TverskyLossA0.5B0.5

	1	2	3
Rank	2.259	1.672	2.069
1		0.020	0.405
2			0.024

Table 8: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.397	2.052	1.552
1		0.017	0.017
2			0.029

Table 9: Pairwise test for MacroRecallM

	1	2	3
Rank	2.397	1.983	1.621
1		0.004	0.023
2			0.156

Table 10: Pairwise test for Macro Tversky A0.5 B0.5

	1	2	3
Rank	1.603	2.121	2.276
1		0.007	0.030
2			0.096

Table 11: Pairwise test for MicroPrecisionM

	1	2	3
Rank	2.293	2.121	1.586
1		0.052	0.022
2			0.026

Table 12: Pairwise test for MicroRecallM

	1	2	3
Rank	2.224	2.017	1.759
1		0.181	0.181
2			0.442

Table 13: Pairwise test for MicroTversky A0.5B 0.5

6 Formatted Pairwise

	1	2	3	1	2	3	1	2	3	1	2	3
Num.	Hamming			Zero-One			ExFDR			ExFNR		
Frd.	9.579e-01			1.000e+00			1.000e+00			1.000e+00		
Rank	1.741	2.017	2.241	1.914	2.017	2.069	1.845	2.086	2.069	1.983	2.155	1.862
1	0.108			1.000			0.999			0.776		
2	0.005			1.000			0.999			0.570		
Num.	ExF1			McFDR			McFNR			MaF1		
Frd.	1.000e+00			5.110e-01			5.611e-02			1.217e-01		
Rank	1.948	2.017	2.034	2.259	1.672	2.069	2.397	2.052	1.552	2.397	1.983	1.621
1	1.000			0.020			0.017			0.004		
2	1.000			0.024			0.029			0.156		
Num.	MIFDR			MIFNR			MIF1					
Frd.	2.130e-01			1.692e-01			1.000e+00					
Rank	1.603	2.121	2.276	2.293	2.121	1.586	2.224	2.017	1.759			
1	0.007			0.052			0.181					
2	0.006			0.026			0.442					

7 Alg Vs test

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

	1	2	3
Rank	1.741	2.017	2.241
	1	6.108	0.003

Table 14: Pairwise test for Hamming Loss

	1	2	3
Rank	1.914	2.017	2.069
	1	1.000	1.000

Table 15: Pairwise test for Zero-One Loss

	1	2	3
Rank	1.845	2.086	2.009
	1	0.666	0.666

Table 16: Pairwise test for X1.Prec Loss

	1	2	3
Rank	1.983	2.155	1.862
1		0.776	0.693

Table 17: Pairwise test for X1.Rec Loss

	1	2	3
Rank	1.948	2.017	2.034
1		1.000	1.000

Table 18: Pairwise test for Tversky.LossA0.5B0.5

	1	2	3
Rank	2.259	1.672	2.009
1		0.013	0.405

Table 19: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.397	2.052	1.552
1		0.011	0.011

Table 20: Pairwise test for MacroRecallM

	1	2	3
Rank	2.397	1.983	1.621
1		0.003	0.011

Table 21: Pairwise test for Macro Tversky A0.5 B0.5

	1	2	3
Rank	1.603	2.121	2.276
1		0.004	0.015

Table 22: Pairwise test for MicroPrecisionM

	1	2	3
Rank	2.293	2.121	1.586
1		0.052	0.015

Table 23: Pairwise test for MicroRecallM

	1	2	3
Rank	2.224	2.017	1.799
1		0.121	0.121

Table 24: Pairwise test for MicroTversky A0.5B 0.5

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	1	2	3	1	2	3	1	2	3	1	2	3
Num.	Hamming			Zero-One			EsFDR			EsFNR		
Frd.	9.579e-01			1.000e+00			1.000e+00			1.000e+00		
Rank	1.741	2.017	2.241	1.914	2.017	2.069	1.845	2.086	2.069	1.983	2.155	1.862
1	0.108 0.003			1.000 1.000			0.666 0.666			0.776 0.693		
Num.	EsF1			MaFDR			MaFNR			MaF1		
Frd.	1.000e+00			5.110e-01			5.611e-02			1.217e-01		
Rank	1.948	2.017	2.034	2.259	1.672	2.069	2.397	2.052	1.552	2.397	1.983	1.621
1	1.000 1.000			0.013 0.405			0.011 0.011			0.003 0.011		
Num.	MiFDR			MiFNR			MiF1					
Frd.	2.136e-01			1.692e-01			1.000e+00					
Rank	1.603	2.121	2.276	2.283	2.121	1.586	2.224	2.017	1.759			
1	0.004 0.015			0.052 0.015			0.121 0.121					

9 Given pairs

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

	1	2	3
Rank	1.741	2.017	2.241
1	0.108		

Table 25: Pairwise test for Hamming Loss

	1	2	3
Rank	1.914	2.017	2.069
1	0.936		

Table 26: Pairwise test for Zero-One Loss

	1	2	3
Rank	1.845	2.085	2.069
1	0.333		

Table 27: Pairwise test for X1 Prec. Loss

	1	2	3
Rank	1.983	2.155	1.862
1		0.776	

Table 28: Pairwise test for X1.Rec Loss

	1	2	3
Rank	1.948	2.017	2.034
1		0.593	

Table 29: Pairwise test for Tversky.LossA0.5B0.5

	1	2	3
Rank	2.259	1.672	2.069
1		0.007	

Table 30: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.397	2.052	1.552
1		0.008	

Table 31: Pairwise test for MacroRecallM

	1	2	3
Rank	2.397	1.983	1.621
1		0.001	

Table 32: Pairwise test for Macro Tversky A0.5 B0.5

	1	2	3
Rank	1.603	2.121	2.276
1		0.002	

Table 33: Pairwise test for MicroPrecisionM

	1	2	3
Rank	2.293	2.121	1.586
1		0.052	

Table 34: Pairwise test for MicroRecallM

	1	2	3
Rank	2.224	2.017	1.759
1		0.060	

Table 35: Pairwise test for MicroTversky A0.5B 0.5

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	1	2	3	1	2	3	1	2	3	1	2	3
Nam.	Hamming			Zero-One			ExFDR			ExFNR		
Frd.	9.579e-01			1.000e+00			1.000e+00			1.000e+00		
Rank	1.741	2.017	2.241	1.914	2.017	2.069	1.845	2.086	2.069	1.983	2.155	1.862
1	0.108			0.936			0.333			0.776		
Nam.	ExF1			MaFDR			MaFNR			MaF1		
Frd.	1.000e+00			5.110e-01			5.611e-02			1.215e-01		
Rank	1.948	2.017	2.034	2.259	1.672	2.060	2.397	2.052	1.552	2.397	1.983	1.621
1	0.293			0.007			0.008			0.001		
Nam.	MaFDR			MaFSR			MaF1					
Frd.	2.136e-01			1.692e-01			1.000e+00					
Rank	1.603	2.121	2.276	2.293	2.121	1.586	2.224	2.017	1.759			
1	0.002			0.052			0.000					

11 Set Names

orgSetNames	numericSetNames
1 ArviL100	1
2 Azotobacter.vinelandii	2
3 birds	3
4 Caenorhabditis.elegans	4
5 Drosophila.melanogaster	5
6 emotions	6
7 enron	7
8 flags	8
9 flare2.anClass	9
10 genbase	10
11 Geobacter-sulfurreducens	11
12 Halorubula.marismortui	12
13 Human3160	13
14 DMDb.sub.0	14
15 LLOG-F	15
16 medical	16
17 mimilug	17
18 obstused	18
19 Plant678	19
20 pyrococcus.furiosus	20
21 Saccharomyces.cerevisiae	21
22 scene	22
23 simpleHC	23
24 simpleHS	24
25 SLASIMDOT-F	25
26 stackex.chess	26
27 tmc2007-500.sub.0	27
28 water-quality.anClass	28
29 yeast	29

Table 36: Set names

12 Raw Means

	BR.ref	BR.MB	BR.BRC
1	0.065	0.064	0.091
2	0.109	0.134	0.209
3	0.050	0.050	0.045
4	0.098	0.089	0.086
5	0.112	0.103	0.123
6	0.201	0.202	0.201
7	0.060	0.056	0.051
8	0.245	0.206	0.298
9	0.073	0.072	0.085
10	0.004	0.004	0.010
11	0.110	0.129	0.232
12	0.114	0.146	0.171
13	0.082	0.082	0.574
14	0.087	0.086	0.852
15	0.033	0.033	0.015
16	0.017	0.017	0.011
17	0.186	0.194	0.193
18	0.061	0.061	0.057
19	0.090	0.091	0.633
20	0.115	0.131	0.357
21	0.083	0.096	0.130
22	0.084	0.084	0.078
23	0.116	0.116	0.109
24	0.217	0.229	0.441
25	0.048	0.049	0.047
26	0.070	0.073	0.065
27	0.075	0.073	0.065
28	0.294	0.305	0.344
29	0.202	0.199	0.308

Table 37: Mean value for: Hamming, Loss

	BR-ref	BR-MB	BR-RRC
1	0.882	0.946	0.893
2	0.541	0.580	0.656
3	0.504	0.592	0.670
4	0.441	0.381	0.357
5	0.448	0.379	0.418
6	0.723	0.723	0.710
7	0.932	0.902	0.882
8	0.820	0.806	0.856
9	0.195	0.190	0.206
10	0.091	0.091	0.192
11	0.581	0.620	0.686
12	0.618	0.687	0.680
13	0.853	0.855	0.911
14	0.988	0.986	0.997
15	0.832	0.827	0.803
16	0.510	0.503	0.348
17	0.673	0.654	0.599
18	0.800	0.800	0.783
19	0.893	0.899	0.934
20	0.645	0.704	0.831
21	0.468	0.566	0.598
22	0.393	0.394	0.356
23	0.693	0.694	0.668
24	0.962	0.962	0.985
25	0.701	0.705	0.701
26	0.703	0.721	0.723
27	0.795	0.766	0.736
28	0.985	0.988	0.991
29	0.867	0.813	0.814

Table 38: Mean value for: Zero-One-Loss

	BR-ref	BR-MB	BR-RRC
1	0.777	0.965	0.831
2	0.490	0.517	0.582
3	0.346	0.356	0.332
4	0.399	0.325	0.316
5	0.383	0.316	0.344
6	0.350	0.359	0.323
7	0.459	0.437	0.386
8	0.274	0.302	0.328
9	0.192	0.189	0.201
10	0.024	0.024	0.120
11	0.517	0.546	0.597
12	0.534	0.571	0.568
13	0.816	0.818	0.810
14	0.942	0.933	0.917
15	0.730	0.747	0.774
16	0.317	0.313	0.218
17	0.524	0.516	0.451
18	0.325	0.325	0.344
19	0.871	0.879	0.863
20	0.594	0.609	0.717
21	0.432	0.408	0.547
22	0.320	0.322	0.293
23	0.168	0.170	0.126
24	0.670	0.624	0.679
25	0.586	0.587	0.612
26	0.560	0.583	0.608
27	0.330	0.336	0.287
28	0.364	0.411	0.456
29	0.298	0.300	0.422

Table 39: Mean value for: X1.Prec-Loss

	BR-ref	BR-MB	BR-RRC
1	0.790	0.910	0.823
2	0.504	0.524	0.544
3	0.380	0.376	0.346
4	0.421	0.346	0.324
5	0.410	0.343	0.350
6	0.382	0.416	0.371
7	0.519	0.509	0.488
8	0.239	0.282	0.250
9	0.194	0.190	0.196
10	0.016	0.016	0.150
11	0.546	0.570	0.545
12	0.562	0.588	0.550
13	0.823	0.825	0.890
14	0.955	0.948	0.074
15	0.648	0.649	0.790
16	0.192	0.197	0.212
17	0.573	0.550	0.481
18	0.551	0.550	0.636
19	0.862	0.871	0.276
20	0.615	0.628	0.534
21	0.460	0.480	0.549
22	0.309	0.310	0.296
23	0.424	0.425	0.414
24	0.837	0.765	0.454
25	0.550	0.550	0.609
26	0.605	0.623	0.625
27	0.317	0.303	0.355
28	0.575	0.496	0.434
29	0.404	0.390	0.314

Table 40: Mean value for: X1.Rec-Loss

	BR-ref	BR-MB	BR-RRC
1	0.796	0.913	0.848
2	0.503	0.533	0.592
3	0.380	0.382	0.354
4	0.418	0.349	0.332
5	0.409	0.345	0.367
6	0.398	0.418	0.378
7	0.524	0.503	0.543
8	0.268	0.302	0.314
9	0.193	0.189	0.200
10	0.024	0.024	0.142
11	0.538	0.569	0.606
12	0.557	0.598	0.585
13	0.823	0.825	0.775
14	0.954	0.946	0.865
15	0.729	0.728	0.785
16	0.287	0.286	0.229
17	0.562	0.546	0.481
18	0.568	0.568	0.616
19	0.870	0.878	0.816
20	0.611	0.635	0.713
21	0.460	0.484	0.563
22	0.323	0.325	0.301
23	0.358	0.360	0.335
24	0.795	0.739	0.667
25	0.584	0.585	0.621
26	0.597	0.617	0.637
27	0.378	0.363	0.364
28	0.522	0.493	0.488
29	0.384	0.377	0.422

Table 41: Mean value for: Tversky-LossA0.5B0.5

	BR-ref	BR-MB	BR-RRC
1	0.598	0.693	0.522
2	0.874	0.740	0.782
3	0.000	0.588	0.365
4	0.351	0.293	0.294
5	0.590	0.352	0.524
6	0.312	0.301	0.388
7	0.768	0.708	0.659
8	0.380	0.344	0.383
9	0.708	0.699	0.700
10	0.143	0.143	0.212
11	0.914	0.751	0.788
12	0.835	0.694	0.698
13	0.729	0.733	0.910
14	0.895	0.895	0.929
15	0.663	0.664	0.659
16	0.294	0.284	0.284
17	0.284	0.337	0.345
18	0.495	0.496	0.444
19	0.777	0.788	0.905
20	0.920	0.644	0.802
21	0.821	0.722	0.802
22	0.176	0.174	0.149
23	0.129	0.130	0.092
24	0.835	0.700	0.753
25	0.479	0.482	0.460
26	0.544	0.577	0.755
27	0.478	0.454	0.354
28	0.502	0.449	0.504
29	0.566	0.469	0.604

Table 42: Mean value for: MacroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	0.827	0.900	0.894
2	0.919	0.821	0.705
3	0.709	0.702	0.612
4	0.854	0.633	0.594
5	0.893	0.722	0.604
6	0.407	0.421	0.385
7	0.770	0.754	0.788
8	0.371	0.370	0.304
9	0.850	0.839	0.837
10	0.117	0.117	0.388
11	0.924	0.855	0.649
12	0.886	0.774	0.713
13	0.906	0.988	0.394
14	0.950	0.949	0.086
15	0.619	0.619	0.691
16	0.228	0.225	0.287
17	0.581	0.562	0.500
18	0.627	0.626	0.766
19	0.888	0.894	0.303
20	0.948	0.798	0.538
21	0.969	0.894	0.818
22	0.311	0.312	0.299
23	0.537	0.537	0.526
24	0.919	0.852	0.314
25	0.548	0.549	0.647
26	0.748	0.764	0.800
27	0.457	0.443	0.888
28	0.652	0.555	0.470
29	0.657	0.620	0.439

Table 43: Mean value for: MacroRecallM

	BR-ref	BR-MB	BR-RRC
1	0.795	0.874	0.685
2	0.912	0.801	0.774
3	0.687	0.678	0.588
4	0.739	0.525	0.496
5	0.857	0.622	0.576
6	0.388	0.378	0.359
7	0.789	0.759	0.741
8	0.396	0.378	0.371
9	0.828	0.822	0.842
10	0.136	0.136	0.273
11	0.922	0.826	0.761
12	0.873	0.754	0.728
13	0.871	0.874	0.856
14	0.966	0.963	0.879
15	0.665	0.666	0.684
16	0.282	0.276	0.291
17	0.480	0.474	0.437
18	0.597	0.597	0.707
19	0.870	0.875	0.847
20	0.943	0.761	0.759
21	0.952	0.852	0.813
22	0.253	0.253	0.217
23	0.492	0.493	0.382
24	0.904	0.824	0.678
25	0.561	0.562	0.609
26	0.718	0.732	0.798
27	0.500	0.483	0.528
28	0.620	0.521	0.491
29	0.648	0.593	0.550

Table 44: Mean value for: Macro Tversky A0.5 B0.5

	BR-ref	BR-MB	BR-RRC
1	0.432	0.519	0.663
2	0.321	0.671	0.764
3	0.448	0.442	0.356
4	0.139	0.286	0.279
5	0.284	0.334	0.396
6	0.291	0.285	0.302
7	0.465	0.428	0.329
8	0.262	0.277	0.325
9	0.595	0.655	0.660
10	0.053	0.053	0.009
11	0.292	0.632	0.742
12	0.263	0.622	0.662
13	0.453	0.455	0.901
14	0.862	0.830	0.928
15	0.851	0.852	0.398
16	0.341	0.334	0.172
17	0.279	0.330	0.354
18	0.387	0.388	0.251
19	0.406	0.526	0.899
20	0.308	0.576	0.777
21	0.354	0.694	0.790
22	0.178	0.176	0.153
23	0.136	0.137	0.095
24	0.379	0.532	0.730
25	0.428	0.437	0.298
26	0.411	0.464	0.637
27	0.378	0.365	0.287
28	0.354	0.405	0.474
29	0.301	0.392	0.500

Table 45: Mean value for: MicroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	0.823	0.926	0.847
2	0.920	0.923	0.680
3	0.656	0.645	0.575
4	0.818	0.617	0.578
5	0.879	0.706	0.587
6	0.390	0.410	0.370
7	0.532	0.520	0.618
8	0.235	0.366	0.234
9	0.933	0.955	0.822
10	0.030	0.030	0.212
11	0.918	0.841	0.627
12	0.850	0.729	0.662
13	0.836	0.838	0.291
14	0.958	0.952	0.076
15	0.771	0.772	0.927
16	0.191	0.196	0.221
17	0.594	0.571	0.569
18	0.584	0.583	0.676
19	0.868	0.877	0.282
20	0.939	0.780	0.509
21	0.966	0.887	0.806
22	0.323	0.325	0.313
23	0.533	0.534	0.525
24	0.838	0.763	0.472
25	0.571	0.570	0.632
26	0.713	0.724	0.737
27	0.349	0.336	0.397
28	0.580	0.500	0.433
29	0.413	0.397	0.315

Table 46: Mean value for: MicroRecallM

	BR-ref	BR-MB	BR-RRC
1	0.739	0.873	0.822
2	0.859	0.774	0.752
3	0.578	0.569	0.494
4	0.700	0.563	0.469
5	0.794	0.594	0.555
6	0.345	0.355	0.338
7	0.502	0.479	0.514
8	0.250	0.272	0.285
9	0.890	0.923	0.784
10	0.042	0.042	0.123
11	0.854	0.782	0.726
12	0.738	0.687	0.672
13	0.748	0.750	0.827
14	0.938	0.927	0.866
15	0.820	0.821	0.871
16	0.275	0.273	0.198
17	0.481	0.478	0.442
18	0.504	0.504	0.548
19	0.793	0.806	0.827
20	0.889	0.714	0.730
21	0.935	0.837	0.800
22	0.258	0.258	0.242
23	0.394	0.395	0.377
24	0.743	0.696	0.645
25	0.510	0.513	0.544
26	0.617	0.638	0.704
27	0.364	0.351	0.347
28	0.492	0.457	0.455
29	0.362	0.353	0.425

Table 47: Mean value for: MicroTversky A0.5B 0.5

13 Combined Means

	Hamming_Loss_BB_ref	Hamming_Loss_BB_MB	Hamming_Loss_BB_RRC	Zero_One_Loss_BB_ref	Zero_One_Loss_BB_MB	Zero_One_Loss_BB_RRC	X1_Prec_Loss_BB_ref	X1_Prec_Loss_BB_MB	X1_Prec_Loss_BB_RRC	X1_Rec_Loss_BB_ref	X1_Rec_Loss_BB_MB	X1_Rec_Loss_BB_RRC	Tversky_LossA0.5B0.5_BB_ref	Tversky_LossA0.5B0.5_BB_MB	Tversky_LossA0.5B0.5_BB_RRC	MacroPrecisionM_BB_ref	MacroPrecisionM_BB_MB	MacroPrecisionM_BB_RRC	MacroRecallM_BB_ref	MacroRecallM_BB_MB	MacroRecallM_BB_RRC	Macro_Tversky_A0.5B0.5_BB_ref	Macro_Tversky_A0.5B0.5_BB_MB	Macro_Tversky_A0.5B0.5_BB_RRC	
ArtisL100	0.065	0.064	0.091	0.882	0.946	0.893	0.777	0.905	0.831	0.790	0.910	0.823	0.796	0.913	0.848	0.598	0.693	0.822	0.827	0.900	0.894	0.795			
Azotobacter_vinelandii	0.109	0.134	0.209	0.541	0.580	0.656	0.490	0.517	0.582	0.544	0.524	0.503	0.502	0.533	0.502	0.874	0.740	0.782	0.919	0.821	0.705	0.912			
Caenorhabditis_elegans	0.050	0.050	0.045	0.504	0.502	0.470	0.346	0.356	0.332	0.380	0.375	0.346	0.380	0.382	0.354	0.600	0.588	0.565	0.719	0.702	0.612	0.687			
Caenorhabditis_elegans	0.089	0.086	0.086	0.441	0.381	0.346	0.357	0.399	0.325	0.316	0.421	0.346	0.421	0.349	0.332	0.351	0.293	0.294	0.824	0.633	0.594	0.739			
Drosophila_melanogaster	0.112	0.103	0.123	0.448	0.379	0.418	0.343	0.316	0.344	0.410	0.343	0.350	0.409	0.367	0.345	0.590	0.352	0.524	0.893	0.722	0.604	0.837			
emotions	0.201	0.202	0.201	0.723	0.723	0.710	0.350	0.359	0.323	0.382	0.446	0.371	0.398	0.418	0.375	0.312	0.301	0.308	0.471	0.421	0.385	0.388			
ecoron	0.060	0.056	0.051	0.932	0.902	0.882	0.459	0.437	0.386	0.519	0.509	0.588	0.524	0.503	0.543	0.768	0.708	0.659	0.770	0.754	0.768	0.789			
flags	0.245	0.206	0.298	0.820	0.806	0.856	0.274	0.302	0.328	0.259	0.282	0.250	0.268	0.302	0.314	0.380	0.344	0.371	0.370	0.296	0.304				
flac2_mfClass	0.073	0.072	0.085	0.195	0.190	0.206	0.192	0.189	0.189	0.194	0.190	0.196	0.193	0.199	0.200	0.708	0.699	0.709	0.850	0.839	0.837	0.828			
genbase	0.004	0.004	0.010	0.091	0.091	0.192	0.024	0.024	0.016	0.120	0.016	0.016	0.024	0.024	0.142	0.143	0.143	0.212	0.117	0.136	0.308				
Grobacter_sulfurreducens	0.110	0.129	0.232	0.581	0.620	0.686	0.517	0.546	0.597	0.546	0.570	0.545	0.538	0.569	0.606	0.914	0.751	0.788	0.924	0.855	0.649	0.922			
Halorubella_martensenii	0.114	0.146	0.171	0.618	0.687	0.680	0.534	0.571	0.568	0.562	0.559	0.557	0.585	0.598	0.604	0.835	0.698	0.886	0.774	0.713	0.873				
Human3160	0.082	0.082	0.082	0.853	0.855	0.911	0.816	0.818	0.810	0.823	0.825	0.823	0.825	0.825	0.775	0.729	0.733	0.910	0.908	0.908	0.871				
IMDB_sub_0	0.087	0.086	0.086	0.988	0.986	0.997	0.942	0.933	0.917	0.955	0.948	0.974	0.954	0.946	0.905	0.929	0.895	0.950	0.949	0.966	0.966				
LLMC-F	0.033	0.033	0.015	0.832	0.827	0.803	0.750	0.747	0.774	0.648	0.750	0.729	0.683	0.728	0.785	0.664	0.659	0.619	0.729	0.691	0.691	0.665			
medical	0.017	0.017	0.011	0.510	0.503	0.348	0.317	0.313	0.218	0.192	0.197	0.212	0.287	0.286	0.229	0.294	0.284	0.284	0.228	0.225	0.287	0.282			
nmimlmg	0.186	0.194	0.193	0.673	0.654	0.599	0.524	0.516	0.451	0.573	0.550	0.599	0.481	0.562	0.546	0.581	0.581	0.581	0.500	0.500	0.480				
olismmed	0.061	0.061	0.067	0.890	0.890	0.783	0.525	0.525	0.544	0.551	0.550	0.626	0.568	0.616	0.496	0.444	0.467	0.766	0.626	0.766	0.597				
Plant978	0.090	0.091	0.633	0.893	0.899	0.934	0.871	0.879	0.863	0.862	0.871	0.876	0.870	0.878	0.816	0.777	0.788	0.905	0.888	0.894	0.870				
pyrococcus_furiosus	0.115	0.131	0.357	0.645	0.704	0.628	0.831	0.594	0.717	0.615	0.534	0.628	0.611	0.635	0.644	0.713	0.802	0.948	0.798	0.538	0.943				
Saccharomyces_cerevisiae	0.083	0.096	0.130	0.468	0.506	0.508	0.452	0.468	0.480	0.460	0.440	0.484	0.484	0.563	0.561	0.722	0.802	0.969	0.894	0.818	0.932				
scene	0.084	0.084	0.078	0.393	0.394	0.356	0.320	0.322	0.293	0.309	0.320	0.323	0.296	0.323	0.325	0.301	0.174	0.311	0.312	0.299	0.253				
simp4HC	0.116	0.109	0.093	0.694	0.668	0.668	0.126	0.170	0.126	0.424	0.425	0.414	0.358	0.360	0.335	0.129	0.130	0.537	0.402	0.526	0.402				
simpleHS	0.217	0.239	0.441	0.962	0.982	0.985	0.670	0.624	0.679	0.837	0.765	0.454	0.795	0.739	0.835	0.667	0.753	0.919	0.852	0.914	0.904				
SLASHDOT-F	0.048	0.049	0.047	0.701	0.705	0.701	0.586	0.587	0.612	0.550	0.550	0.600	0.584	0.585	0.621	0.479	0.482	0.460	0.548	0.449	0.561				
stackex_crew	0.070	0.073	0.095	0.703	0.721	0.723	0.560	0.583	0.608	0.623	0.625	0.597	0.637	0.617	0.557	0.544	0.557	0.718	0.600	0.617	0.718				
tmc2007-500_sub_0	0.075	0.073	0.065	0.795	0.796	0.796	0.350	0.336	0.287	0.317	0.330	0.378	0.355	0.364	0.364	0.478	0.454	0.457	0.443	0.588	0.500				
water-quality_mfClass	0.294	0.305	0.344	0.985	0.988	0.991	0.364	0.411	0.456	0.575	0.496	0.434	0.522	0.493	0.488	0.502	0.449	0.504	0.653	0.555	0.470	0.620			
yeast	0.202	0.199	0.308	0.897	0.813	0.814	0.298	0.300	0.422	0.404	0.390	0.314	0.384	0.377	0.423	0.566	0.469	0.604	0.657	0.620	0.439	0.648			

Table 48: Combined Mean values

	BR-ref	BR-MB	BR-RRC
1	2,000	1,000	3,000
2	1,000	2,000	3,000
3	3,000	2,000	1,000
4	3,000	2,000	1,000
5	2,000	1,000	3,000
6	1,000	3,000	2,000
7	3,000	2,000	1,000
8	1,000	2,000	3,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	1,000	2,000	3,000
12	1,000	2,000	3,000
13	1,000	2,000	3,000
14	2,000	1,000	3,000
15	2,000	3,000	1,000
16	3,000	2,000	1,000
17	1,000	3,000	2,000
18	2,000	3,000	1,000
19	1,000	2,000	3,000
20	1,000	2,000	3,000
21	1,000	2,000	3,000
22	3,000	2,000	1,000
23	2,000	3,000	1,000
24	1,000	2,000	3,000
25	2,000	3,000	1,000
26	1,000	2,000	3,000
27	3,000	2,000	1,000
28	1,000	2,000	3,000
29	2,000	1,000	3,000

Table 49: Ranks for: Hamming Loss

	BR-ref	BR-MB	BR-RRC
1	1,000	3,000	2,000
2	1,000	2,000	3,000
3	3,000	2,000	1,000
4	3,000	2,000	1,000
5	3,000	1,000	2,000
6	2,000	3,000	1,000
7	3,000	2,000	1,000
8	2,000	1,000	3,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	1,000	2,000	3,000
12	1,000	3,000	2,000
13	1,000	2,000	3,000
14	2,000	1,000	3,000
15	3,000	2,000	1,000
16	3,000	2,000	1,000
17	3,000	2,000	1,000
18	3,000	2,000	1,000
19	1,000	2,000	3,000
20	1,000	2,000	3,000
21	1,000	2,000	3,000
22	2,000	3,000	1,000
23	2,000	3,000	1,000
24	1,000	2,000	3,000
25	1,000	3,000	2,000
26	1,000	2,000	3,000
27	3,000	2,000	1,000
28	1,000	2,000	3,000
29	3,000	1,000	2,000

Table 50: Ranks for: Zero-One Loss

	BR-ref	BR-MB	BR-RRC
1	1,000	3,000	2,000
2	1,000	2,000	3,000
3	2,000	3,000	1,000
4	3,000	2,000	1,000
5	3,000	1,000	2,000
6	2,000	3,000	1,000
7	3,000	2,000	1,000
8	1,000	2,000	3,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	1,000	2,000	3,000
12	1,000	3,000	2,000
13	2,000	3,000	1,000
14	3,000	2,000	1,000
15	2,000	1,000	3,000
16	3,000	2,000	1,000
17	3,000	2,000	1,000
18	2,000	1,000	3,000
19	2,000	3,000	1,000
20	1,000	2,000	3,000
21	1,000	2,000	3,000
22	2,000	3,000	1,000
23	2,000	3,000	1,000
24	2,000	1,000	3,000
25	1,000	2,000	3,000
26	1,000	2,000	3,000
27	3,000	2,000	1,000
28	1,000	2,000	3,000
29	1,000	2,000	3,000

Table 51: Ranks for: X1-Prox Loss

	BR-ref	BR-MB	BR-RRC
1	1,000	3,000	2,000
2	1,000	2,000	3,000
3	3,000	2,000	1,000
4	3,000	2,000	1,000
5	3,000	1,000	2,000
6	2,000	3,000	1,000
7	2,000	1,000	3,000
8	1,000	3,000	2,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	2,000	3,000	1,000
12	2,000	3,000	1,000
13	2,000	3,000	1,000
14	3,000	2,000	1,000
15	1,000	2,000	3,000
16	1,000	2,000	3,000
17	3,000	2,000	1,000
18	2,000	1,000	3,000
19	2,000	3,000	1,000
20	2,000	3,000	1,000
21	1,000	2,000	3,000
22	2,000	3,000	1,000
23	2,000	3,000	1,000
24	3,000	2,000	1,000
25	1,000	2,000	3,000
26	1,000	2,000	3,000
27	2,000	1,000	3,000
28	3,000	2,000	1,000
29	3,000	2,000	1,000

Table 52: Ranks for: XLRec Loss

	BR-ref	BR-MB	BR-RRC
1	1,000	3,000	2,000
2	1,000	2,000	3,000
3	2,000	3,000	1,000
4	3,000	2,000	1,000
5	3,000	1,000	2,000
6	2,000	3,000	1,000
7	2,000	1,000	3,000
8	1,000	2,000	3,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	1,000	2,000	3,000
12	1,000	3,000	2,000
13	2,000	3,000	1,000
14	3,000	2,000	1,000
15	2,000	1,000	3,000
16	3,000	2,000	1,000
17	3,000	2,000	1,000
18	2,000	1,000	3,000
19	2,000	3,000	1,000
20	1,000	2,000	3,000
21	1,000	2,000	3,000
22	2,000	3,000	1,000
23	2,000	3,000	1,000
24	1,000	2,000	1,000
25	1,000	2,000	3,000
26	1,000	2,000	3,000
27	3,000	1,000	2,000
28	3,000	2,000	1,000
29	2,000	1,000	3,000

Table 53: Ranks for: Tversky-Loss0.5B0.5

	BR-ref	BR-MB	BR-RRC
1	1,000	2,000	3,000
2	3,000	1,000	2,000
3	3,000	2,000	1,000
4	3,000	1,000	2,000
5	3,000	1,000	2,000
6	3,000	1,000	2,000
7	3,000	2,000	1,000
8	2,000	1,000	3,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	3,000	1,000	2,000
12	3,000	1,000	2,000
13	1,000	2,000	3,000
14	1,000	2,000	3,000
15	2,000	3,000	1,000
16	3,000	2,000	1,000
17	1,000	2,000	3,000
18	2,000	3,000	1,000
19	1,000	2,000	3,000
20	3,000	1,000	2,000
21	3,000	1,000	2,000
22	3,000	2,000	1,000
23	2,000	3,000	1,000
24	3,000	1,000	2,000
25	2,000	3,000	1,000
26	1,000	2,000	3,000
27	3,000	2,000	1,000
28	2,000	1,000	3,000
29	2,000	1,000	3,000

Table 54: Ranks for: MacroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	1,000	3,000	2,000
2	3,000	2,000	1,000
3	3,000	2,000	1,000
4	3,000	2,000	1,000
5	3,000	2,000	1,000
6	2,000	3,000	1,000
7	3,000	1,000	2,000
8	3,000	2,000	1,000
9	3,000	2,000	1,000
10	1,500	1,500	3,000
11	3,000	2,000	1,000
12	3,000	2,000	1,000
13	2,000	3,000	1,000
14	3,000	2,000	1,000
15	1,000	2,000	3,000
16	2,000	1,000	3,000
17	3,000	2,000	1,000
18	2,000	1,000	3,000
19	2,000	3,000	1,000
20	3,000	2,000	1,000
21	3,000	2,000	1,000
22	2,000	3,000	1,000
23	2,000	3,000	1,000
24	3,000	2,000	1,000
25	1,000	2,000	3,000
26	1,000	2,000	3,000
27	2,000	1,000	3,000
28	3,000	2,000	1,000
29	3,000	2,000	1,000

Table 55: Ranks for: MacroRecallM

	BR-ref	BR-MB	BR-RRC
1	1.000	2.000	3.000
2	3.000	2.000	1.000
3	3.000	2.000	1.000
4	3.000	2.000	1.000
5	3.000	2.000	1.000
6	3.000	2.000	1.000
7	3.000	2.000	1.000
8	3.000	2.000	1.000
9	2.000	1.000	3.000
10	1.500	1.500	3.000
11	3.000	2.000	1.000
12	3.000	2.000	1.000
13	2.000	3.000	1.000
14	3.000	2.000	1.000
15	1.000	2.000	3.000
16	2.000	1.000	3.000
17	3.000	2.000	1.000
18	2.000	1.000	3.000
19	2.000	3.000	1.000
20	3.000	2.000	1.000
21	3.000	2.000	1.000
22	2.000	3.000	1.000
23	2.000	3.000	1.000
24	3.000	2.000	1.000
25	1.000	2.000	3.000
26	1.000	2.000	3.000
27	2.000	1.000	3.000
28	3.000	2.000	1.000
29	3.000	2.000	1.000

Table 56: Ranks for: MacroTversky A0.5 B0.5

	BR-ref	BR-MB	BR-RRC
1	1.000	2.000	3.000
2	1.000	2.000	3.000
3	3.000	2.000	1.000
4	1.000	3.000	2.000
5	1.000	2.000	3.000
6	2.000	1.000	3.000
7	3.000	2.000	1.000
8	1.000	2.000	3.000
9	1.000	2.000	3.000
10	2.500	2.500	1.000
11	1.000	2.000	3.000
12	1.000	2.000	3.000
13	1.000	2.000	3.000
14	2.000	1.000	3.000
15	2.000	3.000	1.000
16	3.000	2.000	1.000
17	1.000	2.000	3.000
18	2.000	3.000	1.000
19	1.000	2.000	3.000
20	1.000	2.000	3.000
21	1.000	2.000	3.000
22	3.000	2.000	1.000
23	2.000	3.000	1.000
24	1.000	2.000	3.000
25	2.000	3.000	1.000
26	1.000	2.000	3.000
27	3.000	2.000	1.000
28	1.000	2.000	3.000
29	1.000	2.000	3.000

Table 57: Ranks for: MicroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	1.000	3.000	2.000
2	3.000	2.000	1.000
3	3.000	2.000	1.000
4	3.000	2.000	1.000
5	3.000	2.000	1.000
6	2.000	3.000	1.000
7	2.000	1.000	3.000
8	2.000	3.000	1.000
9	2.000	3.000	1.000
10	1.500	1.500	3.000
11	3.000	2.000	1.000
12	3.000	2.000	1.000
13	2.000	3.000	1.000
14	3.000	2.000	1.000
15	1.000	2.000	3.000
16	1.000	2.000	3.000
17	3.000	2.000	1.000
18	2.000	1.000	3.000
19	2.000	3.000	1.000
20	3.000	2.000	1.000
21	3.000	2.000	1.000
22	2.000	3.000	1.000
23	2.000	3.000	1.000
24	3.000	2.000	1.000
25	2.000	1.000	3.000
26	1.000	2.000	3.000
27	2.000	1.000	3.000
28	3.000	2.000	1.000
29	3.000	2.000	1.000

Table 58: Ranks for: MicroRecallM

	BR-ref	BR-MB	BR-RRC
1	1.000	3.000	2.000
2	3.000	2.000	1.000
3	3.000	2.000	1.000
4	3.000	2.000	1.000
5	3.000	2.000	1.000
6	2.000	3.000	1.000
7	2.000	1.000	3.000
8	1.000	2.000	3.000
9	2.000	3.000	1.000
10	1.500	1.500	3.000
11	3.000	2.000	1.000
12	3.000	2.000	1.000
13	1.000	2.000	3.000
14	3.000	2.000	1.000
15	1.000	2.000	3.000
16	3.000	2.000	1.000
17	3.000	2.000	1.000
18	2.000	1.000	3.000
19	1.000	2.000	3.000
20	3.000	1.000	2.000
21	3.000	2.000	1.000
22	2.000	3.000	1.000
23	2.000	3.000	1.000
24	3.000	2.000	1.000
25	1.000	2.000	3.000
26	1.000	2.000	3.000
27	3.000	2.000	1.000
28	3.000	2.000	1.000
29	2.000	1.000	3.000

Table 59: Ranks for: MicroTversky A0.5B 0.5