

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	2.207	1.621	2.172
Zero-One Loss	2.466	1.810	1.724
X1.Prec.Loss	2.207	1.759	2.034
X1.Rec.Loss	2.121	2.017	1.862
Tversky.Loss.A0.5B0.5	2.310	1.897	1.793
MacroPrecisionM	2.276	1.690	2.034
MacroRecallM	2.017	2.190	1.793
Macro.Tversky.A0.5.B0.5	2.241	1.931	1.828
MicroPrecisionM	2.379	1.759	1.862
MicroRecallM	1.948	2.224	1.828
MicroTversky.A0.5B.0.5	2.310	1.931	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	0.382674
Zero One Loss	0.082121
X1.Prec.Loss	1.000000
X1.Rec.Loss	1.000000
Tversky Loss_A0.5B0.5	0.666999
MacroPrecisionM	0.617571
MacroRecallM	1.000000
Macro.Tversky_A0.5.B0.5	1.000000
MicroPrecisionM	0.382674
MicroRecallM	1.000000
MicroTversky_A0.5B0.5	0.666999

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	2.207	1.621	2.172
1		0.002	0.137
2			0.024

Table 3: Pairwise test for Hamming Loss

	1	2	3
Rank	2.466	1.810	1.724
1		0.003	0.008
2			0.115

Table 4: Pairwise test for Zero One Loss

	1	2	3
Rank	2.207	1.759	2.034
1		0.039	0.324
2			0.782

Table 5: Pairwise test for X1.Prec Loss

	1	2	3
Rank	2.121	2.017	1.862
1		0.241	0.197
2			0.231

Table 6: Pairwise test for XLRec Loss

	1	2	3
Rank	2.310	1.897	1.793
1		0.100	0.324
2			0.594

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

	1	2	3
Rank	2.276	1.690	2.034
1		0.044	0.798
2			0.338

Table 8: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.017	2.190	1.793
1		0.431	0.328
2			0.263

Table 9: Pairwise test for MacroRecallM

	1	2	3
Rank	2.241	1.931	1.828
1		0.209	1.000
2			1.000

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

	1	2	3
Rank	2.379	1.759	1.862
1		0.050	0.785
2			0.755

Table 11: Pairwise test for MicroPrecisionM

	1	2	3
Rank	1.948	2.224	1.828
1		0.361	0.324
2			0.152

Table 12: Pairwise test for MicroRecallM

	1	2	3
Rank	2.310	1.931	1.759
1		0.330	1.000
2			1.000

Table 13: 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			ExFDR			ExFNR		
Frd.	3.827e-01			8.242e-02			1.000e+00			1.000e+00		
Rank	2.207	1.621	2.172	2.466	1.810	1.724	2.207	1.750	2.034	2.121	2.017	1.862
1	0.002			0.003			0.039			0.241		
2	0.024			0.115			0.782			0.241		
Num.	ESF1			MGFDR			MGFNR			MaF1		
Frd.	6.670e-01			6.176e-01			1.000e+00			1.000e+00		
Rank	2.310	1.897	1.793	2.276	1.690	2.034	2.017	2.190	1.793	2.241	1.931	1.828
1	0.100			0.044			0.431			0.209		
2	0.594			0.338			0.263			1.000		
Num.	MIFDR			MIFNR			MIF1					
Frd.	3.827e-01			1.000e+00			6.650e-01					
Rank	2.379	1.759	1.862	1.948	2.224	1.828	2.310	1.931	1.759			
1	0.050			0.361			0.330					
2	0.785			0.152			1.000					

7 Alg Vs test

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

	1	2	3
Rank	2.207	1.621	2.172
	1	0.001	0.137

Table 14: Pairwise test for Hamming Loss

	1	2	3
Rank	2.466	1.810	1.724
	1	0.002	0.004

Table 15: Pairwise test for Zero-One Loss

	1	2	3
Rank	2.207	1.799	2.034
	1	0.028	0.162

Table 16: Pairwise test for X1.Prec Loss

	1	2	3
Rank	2.121	2.017	1.862
1		0.223	0.131

Table 17: Pairwise test for X1.Rec Loss

	1	2	3
Rank	2.310	1.897	1.793
1		0.067	0.162

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

	1	2	3
Rank	2.276	1.600	2.031
1		0.029	0.798

Table 19: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.017	2.190	1.793
1		0.431	0.338

Table 20: Pairwise test for MacroRecallM

	1	2	3
Rank	2.241	1.931	1.828
1		0.139	0.579

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

	1	2	3
Rank	2.379	1.759	1.862
1		0.034	0.393

Table 22: Pairwise test for MicroPrecisionM

	1	2	3
Rank	1.948	2.224	1.828
1		0.361	0.321

Table 23: Pairwise test for MicroRecallM

	1	2	3
Rank	2.310	1.931	1.759
1		0.220	0.749

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			ExFDR			ExFNR		
Frd.	3.827e-01			8.242e-02			1.000e+00			1.000e+00		
Rank	2.207	1.621	2.172	2.466	1.810	1.724	2.207	1.759	2.034	2.121	2.017	1.862
1	0.001 0.137			0.002 0.004			0.026 0.162			0.223 0.131		
Num.	ExF1			MaFDR			MaFNR			MaF1		
Frd.	6.573e-01			6.176e-01			1.000e+00			1.000e+00		
Rank	2.310	1.897	1.793	2.276	1.690	2.034	2.017	2.190	1.793	2.241	1.391	1.828
1	0.067 0.162			0.029 0.798			0.431 0.338			0.139 0.579		
Num.	MiFDR			MiFNR			MiF1					
Frd.	3.827e-01			1.000e+00			6.670e-01					
Rank	2.379	1.759	1.862	1.948	2.224	1.828	2.310	1.931	1.759			
1	0.034 0.393			0.361 0.324			0.220 0.749					

9 Given pairs

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

	1	2	3
Rank	2.207	1.621	2.172
	1	0.001	

Table 25: Pairwise test for Hamming Loss

	1	2	3
Rank	2.466	1.810	1.724
	1	0.001	

Table 26: Pairwise test for Zero-One Loss

	1	2	3
Rank	2.207	1.759	2.034
	1	0.013	

Table 27: Pairwise test for X1 Prec. Loss

	1	2	3
Rank	2.121	2.017	1.862
1		0.223	

Table 28: Pairwise test for X1.Rec Loss

	1	2	3
Rank	2.310	1.897	1.793
1		0.033	

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

	1	2	3
Rank	2.276	1.693	2.034
1		0.015	

Table 30: Pairwise test for MacroPrecisionM

	1	2	3
Rank	2.017	2.190	1.793
1		0.431	

Table 31: Pairwise test for MacroRecallM

	1	2	3
Rank	2.241	1.931	1.828
1		0.070	

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

	1	2	3
Rank	2.379	1.759	1.862
1		0.017	

Table 33: Pairwise test for MicroPrecisionM

	1	2	3
Rank	1.948	2.224	1.828
1		0.361	

Table 34: Pairwise test for MicroRecallM

	1	2	3
Rank	2.310	1.931	1.759
1		0.110	

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
Num.	Hamming			Zero-One			ExFDR			ExFNR		
Frd.	3.827e-01			8.242e-02			1.000e+00			1.000e+00		
Rank	2.207	1.621	2.172	2.466	1.810	1.724	2.207	1.750	2.034	2.121	2.017	1.862
1	0.001			0.001			0.013			0.223		
Num.	ExF1			MaFDR			MaFNR			MaF1		
Frd.	6.670e-01			6.176e-01			1.000e+00			1.000e+00		
Rank	2.310	1.897	1.793	2.276	1.690	2.034	2.017	2.190	1.793	2.241	1.931	1.828
1	0.033			0.015			0.431			0.070		
Num.	MaFDR			MaFNR			MaF1					
Frd.	3.827e-01			1.000e+00			6.670e-01					
Rank	2.379	1.759	1.862	1.948	2.224	1.828	2.310	1.931	1.759			
1	0.017			0.361			0.110					

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 enviro	7
8 flags	8
9 flare2.anClass	9
10 gnulise	10
11 Geobacter-sulfurreducens	11
12 Halorubella.marismortui	12
13 HomoS160	13
14 MDDB.sub.0	14
15 LLOG-F	15
16 medical	16
17 mimifung	17
18 obsamed	18
19 Plant678	19
20 pyrococcus.furiosus	20
21 Saccharomyces.cerevisiae	21
22 scene	22
23 simpleHC	23
24 simpleHS	24
25 SLASHDOT-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	0.068	0.067	0.096
2	0.167	0.154	0.228
3	0.071	0.061	0.047
4	0.132	0.098	0.108
5	0.152	0.126	0.139
6	0.214	0.213	0.196
7	0.070	0.063	0.051
8	0.255	0.268	0.314
9	0.078	0.073	0.085
10	0.002	0.002	0.008
11	0.159	0.143	0.200
12	0.169	0.166	0.175
13	0.137	0.136	0.577
14	0.094	0.095	0.852
15	0.040	0.040	0.015
16	0.013	0.013	0.011
17	0.207	0.206	0.198
18	0.062	0.062	0.057
19	0.137	0.138	0.564
20	0.187	0.161	0.329
21	0.151	0.132	0.144
22	0.102	0.101	0.093
23	0.120	0.120	0.112
24	0.307	0.299	0.465
25	0.049	0.049	0.049
26	0.078	0.080	0.084
27	0.079	0.077	0.067
28	0.324	0.319	0.352
29	0.253	0.239	0.316

Table 37: Mean value for: Hamming, Loss

	BR-ref	BR-MB	BR-RRC
1	0.854	0.946	0.865
2	0.772	0.657	0.670
3	0.000	0.536	0.484
4	0.651	0.452	0.466
5	0.671	0.531	0.513
6	0.744	0.746	0.691
7	0.934	0.906	0.879
8	0.816	0.801	0.846
9	0.197	0.192	0.206
10	0.054	0.054	0.157
11	0.734	0.665	0.675
12	0.743	0.720	0.706
13	0.904	0.903	0.929
14	0.985	0.985	0.996
15	0.840	0.837	0.808
16	0.430	0.426	0.360
17	0.663	0.657	0.624
18	0.805	0.805	0.788
19	0.887	0.887	0.930
20	0.873	0.807	0.852
21	0.800	0.609	0.653
22	0.441	0.437	0.386
23	0.701	0.701	0.672
24	0.979	0.878	0.980
25	0.694	0.696	0.705
26	0.723	0.737	0.715
27	0.821	0.796	0.757
28	0.994	0.991	0.989
29	0.921	0.867	0.843

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

	BR-ref	BR-MB	BR-RRC
1	0.707	0.867	0.773
2	0.677	0.577	0.583
3	0.464	0.397	0.335
4	0.532	0.365	0.380
5	0.518	0.412	0.393
6	0.359	0.361	0.312
7	0.517	0.476	0.368
8	0.276	0.303	0.339
9	0.189	0.190	0.201
10	0.011	0.011	0.083
11	0.651	0.582	0.581
12	0.633	0.618	0.580
13	0.788	0.788	0.820
14	0.901	0.900	0.916
15	0.733	0.751	0.786
16	0.573	0.366	0.225
17	0.493	0.488	0.464
18	0.527	0.527	0.566
19	0.805	0.807	0.856
20	0.736	0.690	0.730
21	0.720	0.629	0.589
22	0.344	0.343	0.316
23	0.210	0.210	0.147
24	0.676	0.664	0.607
25	0.572	0.574	0.619
26	0.564	0.582	0.587
27	0.371	0.360	0.299
28	0.455	0.430	0.468
29	0.407	0.381	0.435

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

	BR-ref	BR-MB	BR-RRC
1	0.665	0.883	0.711
2	0.674	0.583	0.517
3	0.430	0.381	0.349
4	0.564	0.394	0.390
5	0.547	0.450	0.410
6	0.358	0.368	0.374
7	0.486	0.491	0.571
8	0.267	0.283	0.252
9	0.192	0.191	0.197
10	0.017	0.017	0.113
11	0.662	0.602	0.557
12	0.620	0.623	0.570
13	0.705	0.706	0.777
14	0.919	0.918	0.072
15	0.639	0.639	0.796
16	0.223	0.219	0.230
17	0.487	0.483	0.487
18	0.548	0.547	0.659
19	0.731	0.734	0.740
20	0.736	0.673	0.565
21	0.726	0.641	0.583
22	0.301	0.302	0.216
23	0.454	0.454	0.432
24	0.661	0.654	0.421
25	0.528	0.530	0.618
26	0.576	0.594	0.619
27	0.355	0.347	0.395
28	0.458	0.451	0.430
29	0.439	0.421	0.302

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

	BR-ref	BR-MB	BR-RRC
1	0.721	0.903	0.799
2	0.607	0.598	0.586
3	0.463	0.406	0.357
4	0.572	0.396	0.403
5	0.564	0.454	0.426
6	0.393	0.398	0.372
7	0.534	0.513	0.525
8	0.283	0.304	0.234
9	0.191	0.190	0.200
10	0.017	0.017	0.105
11	0.668	0.604	0.596
12	0.649	0.641	0.600
13	0.768	0.768	0.781
14	0.920	0.919	0.864
15	0.731	0.729	0.794
16	0.208	0.263	0.242
17	0.508	0.504	0.492
18	0.568	0.568	0.637
19	0.786	0.788	0.814
20	0.772	0.711	0.727
21	0.745	0.653	0.607
22	0.336	0.335	0.324
23	0.390	0.390	0.353
24	0.705	0.696	0.665
25	0.567	0.569	0.628
26	0.587	0.604	0.621
27	0.407	0.397	0.391
28	0.488	0.495	0.483
29	0.455	0.432	0.424

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

	BR-ref	BR-MB	BR-RRC
1	0.623	0.700	0.843
2	0.772	0.731	0.797
3	0.642	0.623	0.594
4	0.532	0.381	0.456
5	0.642	0.528	0.581
6	0.338	0.336	0.280
7	0.737	0.706	0.666
8	0.337	0.324	0.376
9	0.710	0.767	0.770
10	0.109	0.109	0.183
11	0.779	0.716	0.770
12	0.781	0.760	0.729
13	0.825	0.825	0.910
14	0.880	0.881	0.929
15	0.671	0.671	0.661
16	0.278	0.267	0.286
17	0.375	0.373	0.362
18	0.508	0.508	0.428
19	0.802	0.803	0.898
20	0.821	0.739	0.783
21	0.847	0.825	0.822
22	0.248	0.242	0.195
23	0.143	0.143	0.089
24	0.723	0.714	0.755
25	0.484	0.491	0.468
26	0.562	0.587	0.686
27	0.482	0.471	0.545
28	0.482	0.476	0.517
29	0.561	0.545	0.606

Table 42: Mean value for: MacroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	0.744	0.881	0.872
2	0.816	0.818	0.664
3	0.641	0.656	0.594
4	0.656	0.643	0.609
5	0.683	0.700	0.594
6	0.376	0.387	0.387
7	0.711	0.721	0.708
8	0.337	0.333	0.294
9	0.883	0.937	0.837
10	0.103	0.103	0.229
11	0.806	0.805	0.702
12	0.807	0.791	0.726
13	0.809	0.811	0.885
14	0.934	0.934	0.085
15	0.626	0.626	0.694
16	0.267	0.281	0.304
17	0.508	0.504	0.509
18	0.616	0.615	0.781
19	0.805	0.806	0.377
20	0.838	0.782	0.548
21	0.847	0.850	0.868
22	0.304	0.305	0.319
23	0.561	0.561	0.541
24	0.727	0.723	0.476
25	0.527	0.529	0.645
26	0.672	0.691	0.795
27	0.509	0.501	0.633
28	0.504	0.528	0.466
29	0.596	0.587	0.425

Table 43: Mean value for: MacroRecallM

	BR-ref	BR-MB	BR-RRC
1	0.735	0.863	0.874
2	0.813	0.805	0.779
3	0.671	0.664	0.581
4	0.620	0.555	0.531
5	0.671	0.645	0.593
6	0.368	0.373	0.355
7	0.736	0.740	0.744
8	0.353	0.341	0.367
9	0.844	0.919	0.844
10	0.107	0.107	0.231
11	0.807	0.786	0.763
12	0.809	0.792	0.744
13	0.839	0.839	0.856
14	0.944	0.944	0.879
15	0.670	0.670	0.687
16	0.284	0.276	0.302
17	0.454	0.450	0.449
18	0.590	0.590	0.715
19	0.819	0.821	0.849
20	0.842	0.776	0.748
21	0.853	0.842	0.822
22	0.285	0.283	0.273
23	0.424	0.424	0.394
24	0.727	0.720	0.673
25	0.546	0.548	0.609
26	0.651	0.668	0.770
27	0.520	0.509	0.559
28	0.498	0.508	0.495
29	0.585	0.571	0.549

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

	BR-ref	BR-MB	BR-RRC
1	0.558	0.610	0.729
2	0.775	0.748	0.756
3	0.641	0.571	0.403
4	0.586	0.373	0.446
5	0.640	0.511	0.567
6	0.335	0.329	0.288
7	0.541	0.494	0.329
8	0.267	0.281	0.341
9	0.581	0.641	0.643
10	0.017	0.017	0.010
11	0.728	0.674	0.718
12	0.707	0.692	0.681
13	0.755	0.754	0.901
14	0.841	0.840	0.928
15	0.881	0.880	0.402
16	0.236	0.232	0.172
17	0.397	0.394	0.371
18	0.403	0.403	0.224
19	0.751	0.753	0.886
20	0.801	0.711	0.772
21	0.857	0.824	0.813
22	0.272	0.268	0.217
23	0.141	0.141	0.091
24	0.667	0.652	0.737
25	0.441	0.449	0.427
26	0.518	0.537	0.565
27	0.392	0.382	0.289
28	0.446	0.434	0.487
29	0.414	0.388	0.509

Table 45: Mean value for: MicroPrecisionM

	BR-ref	BR-MB	BR-RRC
1	0.733	0.909	0.798
2	0.810	0.812	0.649
3	0.600	0.621	0.572
4	0.653	0.625	0.550
5	0.660	0.685	0.580
6	0.357	0.368	0.370
7	0.498	0.502	0.605
8	0.247	0.260	0.233
9	0.816	0.951	0.822
10	0.033	0.033	0.162
11	0.786	0.791	0.677
12	0.774	0.747	0.670
13	0.710	0.710	0.287
14	0.924	0.922	0.075
15	0.756	0.756	0.937
16	0.227	0.224	0.243
17	0.512	0.508	0.517
18	0.580	0.580	0.698
19	0.738	0.741	0.348
20	0.818	0.782	0.523
21	0.842	0.843	0.798
22	0.312	0.313	0.330
23	0.559	0.559	0.541
24	0.672	0.662	0.441
25	0.549	0.551	0.641
26	0.646	0.659	0.726
27	0.384	0.376	0.435
28	0.457	0.481	0.430
29	0.443	0.455	0.395

Table 46: Mean value for: MicroRecallM

	BR-ref	BR-MB	BR-RRC
1	0.667	0.853	0.787
2	0.796	0.787	0.749
3	0.623	0.601	0.566
4	0.623	0.532	0.509
5	0.656	0.624	0.576
6	0.348	0.351	0.332
7	0.522	0.499	0.503
8	0.258	0.271	0.294
9	0.755	0.917	0.780
10	0.025	0.025	0.093
11	0.766	0.751	0.720
12	0.749	0.726	0.682
13	0.735	0.735	0.827
14	0.897	0.896	0.866
15	0.840	0.840	0.886
16	0.233	0.230	0.210
17	0.462	0.458	0.453
18	0.507	0.507	0.565
19	0.746	0.748	0.822
20	0.812	0.740	0.721
21	0.850	0.835	0.811
22	0.293	0.291	0.279
23	0.418	0.418	0.390
24	0.670	0.658	0.644
25	0.501	0.505	0.559
26	0.593	0.608	0.676
27	0.388	0.380	0.371
28	0.452	0.458	0.461
29	0.429	0.408	0.428

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
Artis1100	0.068	0.067	0.096	0.854	0.946	0.865	0.707	0.897	0.773	0.695	0.893	0.771	0.721	0.903	0.799	0.623	0.700	0.843	0.744	0.891	0.872	0.735		
Azotobacter_vinelandii	0.167	0.154	0.228	0.772	0.677	0.583	0.577	0.577	0.670	0.677	0.583	0.517	0.697	0.772	0.598	0.751	0.797	0.816	0.664	0.818	0.664	0.813		
birds	0.071	0.061	0.047	0.600	0.536	0.484	0.404	0.397	0.335	0.430	0.381	0.463	0.406	0.357	0.642	0.623	0.594	0.641	0.656	0.594	0.671			
Caenorhabditis_elegans	0.132	0.098	0.108	0.651	0.452	0.466	0.532	0.365	0.380	0.564	0.394	0.390	0.572	0.396	0.403	0.532	0.381	0.456	0.656	0.643	0.569			
Drosophila_melanogaster	0.132	0.126	0.139	0.671	0.531	0.513	0.410	0.518	0.393	0.412	0.393	0.450	0.564	0.442	0.426	0.581	0.528	0.581	0.700	0.594	0.671			
emotions	0.214	0.213	0.196	0.744	0.746	0.691	0.359	0.361	0.312	0.358	0.368	0.374	0.393	0.398	0.372	0.289	0.376	0.387	0.387	0.387				
esron	0.070	0.063	0.051	0.934	0.906	0.879	0.517	0.476	0.368	0.486	0.491	0.571	0.534	0.513	0.525	0.737	0.706	0.666	0.711	0.721	0.768			
flags	0.255	0.208	0.314	0.816	0.801	0.846	0.276	0.303	0.339	0.267	0.283	0.252	0.283	0.304	0.324	0.324	0.376	0.324	0.353	0.294	0.353			
flac2_mfClass	0.075	0.073	0.085	0.197	0.192	0.206	0.189	0.190	0.192	0.191	0.197	0.191	0.197	0.191	0.190	0.200	0.707	0.883	0.867	0.837	0.844			
genbase	0.002	0.002	0.008	0.054	0.054	0.157	0.011	0.011	0.083	0.017	0.017	0.017	0.113	0.017	0.105	0.109	0.109	0.183	0.103	0.103	0.259			
Grobacter_sulfurreducens	0.159	0.143	0.200	0.734	0.665	0.675	0.651	0.582	0.581	0.662	0.602	0.557	0.668	0.770	0.604	0.806	0.805	0.702	0.807	0.702	0.807			
Halorubella_martensii	0.169	0.166	0.175	0.743	0.729	0.706	0.633	0.618	0.580	0.620	0.623	0.570	0.649	0.641	0.600	0.729	0.807	0.791	0.729	0.809				
Human3160	0.137	0.136	0.577	0.904	0.903	0.929	0.788	0.788	0.820	0.705	0.706	0.277	0.768	0.768	0.781	0.825	0.825	0.910	0.811	0.385	0.839			
IMDB_sub_0	0.094	0.095	0.852	0.985	0.985	0.996	0.901	0.900	0.916	0.919	0.918	0.072	0.920	0.880	0.919	0.934	0.881	0.929	0.934	0.085	0.944			
IL0G-F	0.040	0.040	0.015	0.840	0.857	0.808	0.753	0.751	0.786	0.689	0.689	0.751	0.796	0.671	0.729	0.794	0.661	0.626	0.626	0.694	0.670			
medical	0.013	0.013	0.011	0.430	0.426	0.360	0.273	0.266	0.225	0.223	0.219	0.230	0.268	0.263	0.242	0.278	0.267	0.286	0.267	0.304	0.284			
nmimlmg	0.207	0.206	0.198	0.663	0.657	0.624	0.487	0.493	0.464	0.487	0.483	0.487	0.508	0.492	0.375	0.362	0.373	0.508	0.304	0.454				
olismmed	0.062	0.062	0.067	0.805	0.805	0.788	0.527	0.527	0.566	0.548	0.547	0.659	0.568	0.568	0.637	0.508	0.428	0.616	0.781	0.590				
Plant978	0.137	0.138	0.564	0.887	0.887	0.930	0.805	0.807	0.856	0.731	0.734	0.340	0.786	0.788	0.814	0.802	0.803	0.806	0.377	0.819				
pyrococcus_furiosus	0.187	0.161	0.329	0.873	0.807	0.673	0.736	0.690	0.730	0.756	0.673	0.772	0.712	0.821	0.727	0.783	0.838	0.739	0.782	0.548	0.842			
Saccharomyces_cerevisiae	0.151	0.132	0.144	0.800	0.699	0.653	0.720	0.629	0.589	0.726	0.641	0.583	0.745	0.653	0.607	0.825	0.822	0.847	0.850	0.808	0.853			
scene	0.101	0.101	0.093	0.441	0.437	0.386	0.344	0.343	0.316	0.301	0.302	0.316	0.336	0.335	0.324	0.248	0.195	0.304	0.305	0.319	0.285			
simp4HC	0.120	0.112	0.120	0.701	0.701	0.672	0.210	0.210	0.147	0.147	0.154	0.143	0.390	0.390	0.353	0.143	0.089	0.561	0.541	0.424				
simpleHS	0.307	0.299	0.465	0.978	0.989	0.989	0.676	0.664	0.697	0.661	0.654	0.705	0.665	0.696	0.723	0.714	0.755	0.727	0.476	0.727				
SLASHDOT-F	0.049	0.049	0.049	0.694	0.696	0.705	0.572	0.574	0.619	0.528	0.530	0.618	0.567	0.569	0.628	0.484	0.491	0.468	0.527	0.529	0.546			
stackex_crew	0.078	0.080	0.084	0.723	0.737	0.715	0.564	0.582	0.587	0.576	0.594	0.619	0.587	0.562	0.604	0.662	0.686	0.601	0.795	0.651				
tmc2007-500_sub_0	0.070	0.077	0.821	0.796	0.797	0.757	0.371	0.360	0.399	0.355	0.347	0.305	0.407	0.382	0.391	0.441	0.345	0.509	0.501	0.633	0.520			
water-quality_mfClass	0.324	0.319	0.352	0.994	0.991	0.989	0.455	0.439	0.468	0.458	0.481	0.430	0.488	0.495	0.493	0.482	0.476	0.517	0.504	0.466	0.498			
yeast	0.253	0.239	0.316	0.921	0.867	0.843	0.407	0.381	0.435	0.439	0.421	0.302	0.455	0.432	0.424	0.561	0.545	0.606	0.596	0.587	0.425	0.585		

Table 48: Combined Mean values

	BR-ref	BR-MB	BR-RRC
1	2.000	1.000	3.000
2	2.000	1.000	3.000
3	3.000	2.000	1.000
4	3.000	1.000	2.000
5	3.000	1.000	2.000
6	3.000	2.000	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	2.000	1.000	3.000
12	2.000	1.000	3.000
13	2.000	1.000	3.000
14	1.000	2.000	3.000
15	3.000	2.000	1.000
16	3.000	2.000	1.000
17	3.000	2.000	1.000
18	2.000	3.000	1.000
19	1.000	2.000	3.000
20	2.000	1.000	3.000
21	3.000	1.000	2.000
22	3.000	2.000	1.000
23	2.500	2.500	1.000
24	2.000	1.000	3.000
25	1.000	3.000	2.000
26	1.000	2.000	3.000
27	3.000	2.000	1.000
28	2.000	1.000	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	3.000	1.000	2.000
3	3.000	2.000	1.000
4	3.000	1.000	2.000
5	3.000	2.000	1.000
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	3.000	1.000	2.000
12	3.000	2.000	1.000
13	2.000	1.000	3.000
14	1.500	1.500	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	3.000	1.000	2.000
21	3.000	2.000	1.000
22	3.000	2.000	1.000
23	2.500	2.500	1.000
24	2.000	1.000	3.000
25	1.000	2.000	3.000
26	2.000	3.000	1.000
27	3.000	2.000	1.000
28	3.000	2.000	1.000
29	3.000	2.000	1.000

Table 50: Ranks for: ZeroOneLoss

	BR-ref	BR-MB	BR-RRC
1	1.000	3.000	2.000
2	3.000	1.000	2.000
3	3.000	2.000	1.000
4	3.000	1.000	2.000
5	3.000	2.000	1.000
6	2.000	3.000	1.000
7	3.000	2.000	1.000
8	1.000	2.000	3.000
9	1.000	2.000	3.000
10	1.500	1.500	3.000
11	3.000	2.000	1.000
12	3.000	2.000	1.000
13	1.000	2.000	3.000
14	2.000	1.000	3.000
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	1.000	2.000	3.000
20	3.000	1.000	2.000
21	3.000	2.000	1.000
22	3.000	2.000	1.000
23	2.500	2.500	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	2.000	1.000	3.000
29	2.000	1.000	3.000

Table 51: Ranks for: X1Proc Loss

	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	1,000	2,000	3,000
7	1,000	2,000	3,000
8	2,000	3,000	1,000
9	2,000	1,000	3,000
10	1,500	1,500	3,000
11	3,000	2,000	1,000
12	2,000	3,000	1,000
13	2,000	3,000	1,000
14	3,000	2,000	1,000
15	1,500	1,500	3,000
16	2,000	1,000	3,000
17	2,000	1,000	3,000
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	1,000	2,000	3,000
23	2,500	2,500	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	2,000	3,000	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	3,000	2,000	1,000
3	3,000	2,000	1,000
4	3,000	1,000	2,000
5	3,000	2,000	1,000
6	2,000	3,000	1,000
7	3,000	1,000	2,000
8	1,000	2,000	3,000
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	1,000	2,000	3,000
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	1,000	2,000	3,000
20	3,000	1,000	2,000
21	3,000	2,000	1,000
22	3,000	2,000	1,000
23	2,500	2,500	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	2,000	1,000
28	1,000	3,000	2,000
29	3,000	2,000	1,000

Table 53: Ranks for: TverskyLoss0.5B0.5

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

Table 57: Ranks for: MicroPrecisionM

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

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