Supplementary tables for "Diversity techniques improve the performance of the best imbalance learning ensembles"

José F. Díez-Pastor   Juan J. Rodríguez   Cesar I. García-Osorio   Ludmila I. Kuncheva

Table 1: AUC for diversity-enhancing ensembles, HDDT and KEEL datasets.

Dataset	O	DN	RFW	RF
HDDT PhosS	0.7426	0.6692	0.7605	0.7401
HDDT boundary	0.6251	0.6088	0.6520	0.6513
HDDT breast-y	0.6595	0.6596	0.6505	0.6783
HDDT cam	0.7246	0.6771	0.7616	0.7537
HDDT compustat	0.8944	0.9019	0.8822	0.9069
HDDT covtype	0.9932	0.9924	0.9929	0.9949
HDDT credit-g	0.7530	0.7312	0.7514	0.7781
HDDT estate	0.6459	0.6545	0.6361	0.6600
HDDT german-numer	0.7590	0.7507	0.7580	0.7830
HDDT heart-v	0.6633	0.6674	0.6628	0.6995
HDDT hypo	0.9793	0.9830	0.9887	0.9940
HDDT ism	0.9349	0.9415	0.9345	0.9457
HDDT letter	0.9995	0.9993	0.9998	0.9999
HDDT oil	0.9169	0.8904	0.8921	0.9264
HDDT optdigits	0.9995	0.9997	0.9997	0.9998
HDDT page	0.9917	0.9907	0.9912	0.9921
HDDT pendigits	0.9998	0.9998	0.9999	0.9999
HDDT phoneme	0.9362	0.9391	0.9351	0.9419
HDDT satimage	0.9468	0.9544	0.9553	0.9596
HDDT segment	0.9987	0.9994	0.9988	0.9995
KEEL abalone19	0.7286	0.7441	0.7315	0.8540
KEEL abalone9-18	0.7657	0.7687	0.7424	0.9241
KEEL cleveland-0_vs_4	0.9573	0.9566	0.9479	0.9690
KEEL ecoli-0-1-3-7_vs_2-6	0.9385	0.9281	0.8144	0.9321
KEEL ecoli-0-1-4-6_vs_5	0.9834	0.9832	0.9499	0.9788
KEEL ecoli-0-1-4-7_vs_2-3	0.9314	0.9304	0.8830	0.9368
KEEL ecoli-0-1-4-7_vs_5-6	0.9568	0.9628	0.9461	0.9703
KEEL ecoli-0-1_vs_2-3-5	0.9642	0.9541	0.9500	0.9739
KEEL ecoli-0-1_vs_5	0.9764	0.9821	0.9715	0.9845
KEEL ecoli-0-2-3-4_vs_5	0.9759	0.9752	0.9564	0.9769
KEEL ecoli-0-2-6-7_vs_3-5	0.9501	0.9266	0.9255	0.9452
KEEL ecoli-0-3-4-6_vs_5	0.9737	0.9719	0.9615	0.9803
KEEL ecoli-0-3-4-7_vs_5-6	0.9503	0.9539	0.9374	0.9586
KEEL ecoli-0-3-4_vs_5	0.9830	0.9699	0.9632	0.9764
KEEL ecoli-0-4-6_vs_5	0.9817	0.9854	0.9642	0.9809
KEEL ecoli-0-6-7_vs_3-5	0.9490	0.9205	0.9250	0.9401
KEEL ecoli-0-6-7_vs_5	0.9595	0.9600	0.9483	0.9677
KEEL ecoli-0_vs_1	0.9945	0.9905	0.9865	0.9943
KEEL ecoli1	0.9521	0.9529	0.9477	0.9587
KEEL ecoli2	0.9483	0.9622	0.9461	0.9520
KEEL ecoli3	0.9424	0.9325	0.9257	0.9470
KEEL ecoli4	0.9747	0.9815	0.9756	0.9887
KEEL glass-0-1-2-3_vs_4-5	0.9814	0.9736	0.9733	0.9856
KEEL glass-0-1-4-6_vs_2	0.6859	0.7042	0.5903	0.8308
KEEL glass-0-1-5_vs_2	0.6234	0.7350	0.5135	0.8155
KEEL glass-0-1-6_vs_2	0.6453	0.7450	0.5288	0.8330
KEEL glass-0-1-6_vs_5	0.9929	0.9942	0.9940	0.9930
KEEL glass-0-4_vs_5	0.9976	1.0000	1.0000	0.9975
KEEL glass-0-6_vs_5	0.9952	0.9959	0.9945	0.9970
KEEL glass0	0.8687	0.8711	0.8583	0.8880
KEEL glass1	0.8293	0.8530	0.7933	0.8499
KEEL glass2	0.7056	0.7754	0.6529	0.8611
KEEL glass4	0.9686	0.9645	0.9329	0.9754
KEEL glass5	0.9933	0.9931	0.9924	0.9944
KEEL glass6	0.9719	0.9526	0.9574	0.9777
KEEL haberman	0.6949	0.6750	0.6534	0.6922
KEEL iris0	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9648	0.9652	0.9652	0.9642
KEEL new-thyroid1	0.9926	0.9930	0.9939	0.9995
KEEL new-thyroid2	0.9951	0.9948	0.9957	0.9993
KEEL page-blocks-1-3_vs_4	0.9993	0.9990	0.9975	0.9998
KEEL pima	0.8140	0.8012	0.7993	0.8299
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.9995	0.9962	0.9973	1.0000
KEEL vehicle0	0.9873	0.9818	0.9912	0.9977
KEEL vehicle1	0.8451	0.8374	0.8430	0.8829
KEEL vehicle2	0.9972	0.9923	0.9966	0.9982
KEEL vehicle3	0.8414	0.8321	0.8430	0.8784
KEEL vowel0	0.9945	0.9808	0.9950	0.9997
KEEL wisconsin	0.9930	0.9933	0.9930	0.9934
KEEL yeast-0-2-5-6_vs-3-7	0.8285	0.8280	0.7908	0.8534
KEEL yeast-0-2-5-7-9_vs-3	0.9248	0.9345	0.8858	0.9364
KEEL yeast-0-3-5-9_vs_7-8	0.7575	0.7769	0.7355	0.7809
KEEL yeast-0-5-6-7-9_vs_4	0.8827	0.8839	0.8449	0.8853
KEEL yeast-1-2-8-9_vs_7	0.7784	0.7816	0.7234	0.7954
KEEL yeast-1-4-5-8_vs_7	0.6811	0.6871	0.6087	0.6712
KEEL yeast-1_vs_7	0.8279	0.8446	0.8275	0.8328
KEEL yeast-2_vs_4	0.9810	0.9757	0.9702	0.9809
KEEL yeast-2_vs_8	0.7693	0.8310	0.5144	0.8132
KEEL yeast1	0.7928	0.7925	0.7814	0.8094
KEEL yeast3	0.9723	0.9714	0.9658	0.9758
KEEL yeast4	0.9359	0.9287	0.9204	0.9345
KEEL yeast5	0.9904	0.9894	0.9867	0.9920
KEEL yeast6	0.9053	0.9216	0.8953	0.9310

Table 2: F-measure for diversity-enhancing ensembles, HDDT and KEEL datasets..

Dataset	O	DN	RFW	RF	Dataset	O	DN	RFW	RF
HDDT PhosS	0.1015	0.1324	0.0628	0.0996	KEEL glass-0-1-2-3_vs_4-5	0.8697	0.8428	0.8432	0.8676
HDDT boundary	0.0152	0.0507	0.0062	0.0087	KEEL glass-0-1-4-6_vs_2	0.0600	0.0515	0.0462	0.0200
HDDT breast-y	0.3921	0.3890	0.3819	0.4098	KEEL glass-0-1-5_vs_2	0.0000	0.0556	0.0254	0.0000
HDDT cam	0.0498	0.0977	0.0138	0.0306	KEEL glass-0-1-6_vs_2	0.0200	0.0715	0.0000	0.0364
HDDT compustat	0.0522	0.1745	0.0626	0.0137	KEEL glass-0-1-6_vs_5	0.6807	0.6522	0.6643	0.3150
HDDT covtype	0.8703	0.8555	0.8687	0.8764	KEEL glass-0-4_vs_5	0.9255	0.9505	0.8918	0.8619
HDDT credit-g	0.4936	0.4914	0.4766	0.5061	KEEL glass-0-6_vs_5	0.7441	0.8345	0.7393	0.5560
HDDT estate	0.0043	0.0145	0.0200	0.0105	KEEL glass0	0.6954	0.7117	0.6691	0.6844
HDDT german-numer	0.4986	0.4999	0.4846	0.4998	KEEL glass1	0.6278	0.6682	0.5945	0.6269
HDDT heart-v	0.3670	0.3712	0.3626	0.2820	KEEL glass2	0.0867	0.0382	0.1667	0.0000
HDDT hypo	0.8976	0.9092	0.9069	0.8997	KEEL glass4	0.5002	0.4779	0.4383	0.4460
HDDT ism	0.6185	0.6286	0.6268	0.6304	KEEL glass5	0.6824	0.6893	0.6558	0.3257
HDDT letter	0.9571	0.9475	0.9650	0.9535	KEEL glass6	0.8577	0.8283	0.8401	0.8649
HDDT oil	0.4829	0.4211	0.4195	0.4523	KEEL haberman	0.2930	0.2862	0.2581	0.1987
HDDT optdigits	0.9849	0.9809	0.9874	0.9905	KEEL iris0	0.9813	1.0000	1.0000	1.0000
HDDT page	0.8760	0.8636	0.8763	0.8833	KEEL led7digit-0-2-4-5-6-	0.7899	0.7906	0.7848	0.7918
HDDT pendigits	0.9784	0.9713	0.9784	0.9838	KEEL new-thyroid1	0.9024	0.9089	0.9070	0.9644
HDDT phoneme	0.7805	0.7894	0.7810	0.7888	KEEL new-thyroid2	0.9010	0.9067	0.9064	0.9625
HDDT satimage	0.6169	0.6394	0.6339	0.6320	KEEL page-blocks-1-3_vs_4	0.9310	0.9412	0.9486	0.9122
HDDT segment	0.9786	0.9764	0.9786	0.9887	KEEL pima	0.6297	0.6261	0.6098	0.6315
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	KEEL shuttle-c0vs-c4	0.9975	0.9943	1.0000	0.9959
KEEL abalone9-18	0.1658	0.2436	0.1972	0.3521	KEEL shuttle-c2-vs-c4	0.7700	0.7500	0.8357	0.8400
KEEL cleveland-0-vs_4	0.3862	0.4254	0.3923	0.3000	KEEL vehicle0	0.8797	0.8532	0.9044	0.9457
KEEL ecoli-0-1-3-7_vs_2-6	0.4200	0.3500	0.4324	0.1400	KEEL vehicle1	0.5172	0.5104	0.5157	0.5172
KEEL ecoli-0-1-4-6_vs_5	0.7415	0.7229	0.6856	0.7965	KEEL vehicle2	0.9555	0.9203	0.9527	0.9644
KEEL ecoli-0-1-4-7_vs_2-3	0.6704	0.6205	0.6074	0.7345	KEEL vehicle3	0.4947	0.4768	0.4942	0.4715
KEEL ecoli-0-1-4-7_vs_5-6	0.6822	0.6324	0.6403	0.7026	KEEL vowel0	0.9090	0.8731	0.9181	0.9772
KEEL ecoli-0-1_vs_2-3-5	0.7691	0.7403	0.7298	0.7345	KEEL wisconsin	0.9478	0.9494	0.9522	0.9640
KEEL ecoli-0-1_vs_5	0.7927	0.7082	0.7347	0.7907	KEEL yeast-0-2-5-6_vs-3-7	0.5046	0.5070	0.5109	0.5929
KEEL ecoli-0-2-3-4_vs_5	0.7952	0.7634	0.7502	0.8022	KEEL yeast-0-2-5-7-9_vs-3	0.7472	0.7583	0.7481	0.8133
KEEL ecoli-0-2-6-7_vs_3-5	0.8041	0.7676	0.7748	0.7927	KEEL yeast-0-3-5-9_vs-7-8	0.2441	0.2530	0.2713	0.1810
KEEL ecoli-0-3-4-6_vs_5	0.7830	0.7341	0.7558	0.8020	KEEL yeast-0-5-6-7-9_vs-4	0.4198	0.4243	0.4344	0.4000
KEEL ecoli-0-3-4-7_vs_5-6	0.7549	0.7210	0.7361	0.7794	KEEL yeast-1-2-8-9_vs-7	0.0936	0.1371	0.1644	0.0804
KEEL ecoli-0-3-4_vs_5	0.7482	0.7502	0.7326	0.7810	KEEL yeast-1-4-5-8_vs-7	0.0091	0.0091	0.0352	0.0000
KEEL ecoli-0-4-6_vs_5	0.8145	0.7929	0.7510	0.8158	KEEL yeast-1_vs-7	0.3320	0.3358	0.3216	0.2482
KEEL ecoli-0-6-7_vs_3-5	0.7725	0.7459	0.7296	0.7050	KEEL yeast-2_vs-4	0.7565	0.7264	0.7630	0.7988
KEEL ecoli-0-6-7_vs_5	0.8244	0.8057	0.7906	0.8002	KEEL yeast-2_vs-8	0.0000	0.0000	0.0000	0.3215
KEEL ecoli-0-vs_1	0.9766	0.9766	0.9766	0.9659	KEEL yeast1	0.5379	0.5401	0.5414	0.5206
KEEL ecoli1	0.7680	0.7605	0.7567	0.7840	KEEL yeast3	0.7684	0.7733	0.7522	0.7733
KEEL ecoli2	0.8151	0.8098	0.8089	0.8099	KEEL yeast4	0.3498	0.3358	0.3644	0.1949
KEEL ecoli3	0.5400	0.4853	0.5511	0.5744	KEEL yeast5	0.7150	0.7113	0.7135	0.7117
KEEL ecoli4	0.7733	0.7263	0.7113	0.8326	KEEL yeast6	0.4572	0.4856	0.5049	0.4075

Table 3: G-mean for diversity-enhancing ensembles, HDDT and KEEL datasets..

Dataset	O	DN	RFW	RF	Dataset	O	DN	RFW	RF
HDDT PhosS	0.2293	0.2952	0.1705	0.2323	KEEL glass-0-1-2-3_vs_4-5	0.9092	0.8931	0.8917	0.9072
HDDT boundary	0.0563	0.1697	0.0256	0.0381	KEEL glass-0-1-4-6_vs_2	0.1037	0.0826	0.0606	0.0352
HDDT breast-y	0.5267	0.5290	0.5187	0.5354	KEEL glass-0-1-5_vs_2	0.0000	0.1009	0.0640	0.0000
HDDT cam	0.1634	0.2506	0.0767	0.1236	KEEL glass-0-1-6_vs_2	0.0333	0.1159	0.0000	0.0681
HDDT compustat	0.1492	0.3143	0.1770	0.0675	KEEL glass-0-1-6_vs_5	0.7774	0.7454	0.7706	0.3670
HDDT covtype	0.9126	0.9057	0.9092	0.9071	KEEL glass-0-4_vs_5	0.9714	0.9939	0.9407	0.8755
HDDT credit-g	0.6089	0.6130	0.5914	0.6146	KEEL glass-0-6_vs_5	0.8056	0.8567	0.8016	0.6055
HDDT estate	0.0256	0.0757	0.0792	0.0501	KEEL glass0	0.7703	0.7834	0.7503	0.7589
HDDT german-numer	0.6130	0.6167	0.6006	0.6088	KEEL glass1	0.7021	0.7338	0.6742	0.6935
HDDT heart-v	0.5104	0.5161	0.5034	0.4167	KEEL glass2	0.1511	0.0665	0.2741	0.0000
HDDT hypo	0.9377	0.9444	0.9422	0.9359	KEEL glass4	0.5989	0.5907	0.5699	0.5390
HDDT ism	0.7224	0.7284	0.7148	0.7073	KEEL glass5	0.7533	0.7875	0.7570	0.3862
HDDT letter	0.9666	0.9632	0.9676	0.9547	KEEL glass6	0.9112	0.8937	0.8957	0.8906
HDDT oil	0.6028	0.5906	0.5752	0.5580	KEEL haberman	0.4372	0.4445	0.3586	0.2987
HDDT optdigits	0.9882	0.9862	0.9884	0.9907	KEEL iris0	0.9816	1.0000	1.0000	1.0000
HDDT page	0.9225	0.9168	0.9220	0.9236	KEEL led7digit-0-2-4-5-6-	0.8796	0.8769	0.8735	0.8741
HDDT pendigits	0.9826	0.9782	0.9809	0.9859	KEEL new-thyroid1	0.9351	0.9413	0.9334	0.9695
HDDT phoneme	0.8414	0.8480	0.8424	0.8458	KEEL new-thyroid2	0.9261	0.9371	0.9292	0.9720
HDDT satimage	0.7260	0.7324	0.7199	0.7179	KEEL page-blocks-1-3_vs_4	0.9639	0.9681	0.9576	0.9266
HDDT segment	0.9842	0.9826	0.9840	0.9900	KEEL pima	0.7077	0.7054	0.6921	0.7061
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	KEEL shuttle-c0vs-c4	0.9983	0.9996	1.0000	0.9959
KEEL abalone9-18	0.3046	0.4076	0.3498	0.4709	KEEL shuttle-c2-vs-c4	0.7843	0.7660	0.8652	0.8604
KEEL cleveland-0_vs_4	0.4898	0.5352	0.4878	0.3730	KEEL vehicle0	0.9261	0.9122	0.9407	0.9641
KEEL ecoli-0-1-3-7_vs_2-6	0.4863	0.4124	0.5221	0.1655	KEEL vehicle1	0.6449	0.6386	0.6434	0.6275
KEEL ecoli-0-1-4-6_vs_5	0.7995	0.7987	0.7859	0.8219	KEEL vehicle2	0.9706	0.9497	0.9661	0.9738
KEEL ecoli-0-1-4-7_vs_2-3	0.7263	0.7018	0.7083	0.7794	KEEL vehicle3	0.6225	0.6066	0.6195	0.5818
KEEL ecoli-0-1-4-7_vs_5-6	0.7513	0.7128	0.7329	0.7475	KEEL vowel0	0.9333	0.9163	0.9425	0.9815
KEEL ecoli-0-1_vs_2-3-5	0.8359	0.8168	0.8387	0.7746	KEEL wisconsin	0.9601	0.9614	0.9645	0.9764
KEEL ecoli-0-1_vs_5	0.8380	0.8138	0.8272	0.8271	KEEL yeast-0-2-5-6_vs_3-7	0.6121	0.6159	0.6178	0.6787
KEEL ecoli-0-2-3-4_vs_5	0.8569	0.8585	0.8287	0.8398	KEEL yeast-0-2-5-7-9-vs_3	0.8243	0.8340	0.8245	0.8669
KEEL ecoli-0-2-6-7_vs_3-5	0.8470	0.8370	0.8522	0.8174	KEEL yeast-0-3-5-9_vs_7-8	0.3881	0.3842	0.4342	0.2952
KEEL ecoli-0-3-4-6_vs_5	0.8649	0.8289	0.8549	0.8329	KEEL yeast-0-5-6-7-9_vs_4	0.5740	0.5777	0.5938	0.5244
KEEL ecoli-0-3-4-7_vs_5-6	0.8144	0.7842	0.8119	0.8082	KEEL yeast-1-2-8-9_vs_7	0.1690	0.2344	0.2704	0.1178
KEEL ecoli-0-3-4_vs_5	0.8337	0.8377	0.8308	0.8288	KEEL yeast-1-4-5-8_vs_7	0.0256	0.0256	0.0700	0.0000
KEEL ecoli-0-4-6_vs_5	0.8633	0.8814	0.8495	0.8474	KEEL yeast-1_vs_7	0.4749	0.4840	0.4831	0.3753
KEEL ecoli-0-6-7_vs_3-5	0.8197	0.8147	0.8078	0.7555	KEEL yeast-2_vs_4	0.8511	0.8297	0.8599	0.8489
KEEL ecoli-0-6-7_vs_5	0.8670	0.8705	0.8624	0.8381	KEEL yeast-2_vs_8	0.0000	0.0000	0.0000	0.3805
KEEL ecoli-0_vs_1	0.9813	0.9813	0.9813	0.9733	KEEL yeast1	0.6445	0.6478	0.6505	0.6214
KEEL ecoli1	0.8343	0.8355	0.8298	0.8460	KEEL yeast3	0.8700	0.8752	0.8582	0.8514
KEEL ecoli2	0.8619	0.8627	0.8629	0.8515	KEEL yeast4	0.5090	0.4940	0.5346	0.3326
KEEL ecoli3	0.6738	0.6286	0.6847	0.7003	KEEL yeast5	0.8290	0.8301	0.8152	0.8145
KEEL ecoli4	0.8395	0.8078	0.8141	0.8526	KEEL yeast6	0.6240	0.6428	0.6442	0.5448

Table 4: AUC for E-SM100 ensembles, HDDT and KEEL datasets.

Dataset	E-SM100	O+ E-SM100	DN+ E-SM100	RFW+ E-SM100	RF+ E-SM100
HDDT PhosS	0.6976	0.6849	0.7012	0.6746	0.7092
HDDT boundary	0.5985	0.6038	0.5950	0.6089	0.6137
HDDT breast-y	0.6034	0.5962	0.6115	0.5764	0.6099
HDDT cam	0.6622	0.6558	0.6616	0.6658	0.6586
HDDT compustat	0.9032	0.9055	0.9044	0.9050	0.9077
HDDT covtype	0.9921	0.9912	0.9912	0.9902	0.9903
HDDT credit-g	0.7061	0.7216	0.7193	0.6779	0.7135
HDDT estate	0.6322	0.6291	0.6193	0.6289	0.6415
HDDT german-numer	0.7360	0.7476	0.7334	0.7105	0.7424
HDDT heart-v	0.6649	0.6897	0.6502	0.6853	0.6957
HDDT hypo	0.9857	0.9846	0.9850	0.9904	0.9895
HDDT ism	0.9336	0.9367	0.9371	0.9356	0.9402
HDDT letter	0.9974	0.9973	0.9972	0.9949	0.9979
HDDT oil	0.9027	0.9084	0.9042	0.8888	0.9097
HDDT optdigits	0.9958	0.9980	0.9962	0.9972	0.9971
HDDT page	0.9903	0.9916	0.9905	0.9905	0.9906
HDDT pendigits	0.9985	0.9974	0.9979	0.9976	0.9978
HDDT phoneme	0.9278	0.9307	0.9332	0.9269	0.9246
HDDT satimage	0.9443	0.9433	0.9478	0.9393	0.9479
HDDT segment	0.9911	0.9939	0.9968	0.9914	0.9983
KEEL abalone19	0.7481	0.7370	0.7518	0.7418	0.8039
KEEL abalone9-18	0.7940	0.7711	0.7673	0.7933	0.8842
KEEL cleveland-0-vs_4	0.9035	0.8764	0.9373	0.8995	0.9103
KEEL ecoli-0-1-3-7_vs_2-6	0.7926	0.8589	0.8375	0.7899	0.9013
KEEL ecoli-0-1-4-6_vs_5	0.9532	0.9547	0.9414	0.9437	0.9342
KEEL ecoli-0-1-4-7_vs_2-3	0.9110	0.8741	0.9170	0.9053	0.9300
KEEL ecoli-0-1-4-7_vs_5-6	0.9480	0.9192	0.9422	0.9424	0.9356
KEEL ecoli-0-1_vs_2-3-5	0.9484	0.9555	0.9520	0.9344	0.9405
KEEL ecoli-0-1_vs_5	0.9256	0.9214	0.9588	0.9164	0.9609
KEEL ecoli-0-2-3-4_vs_5	0.9271	0.9774	0.9402	0.9826	0.9780
KEEL ecoli-0-2-6-7_vs_3-5	0.9110	0.9232	0.9116	0.8919	0.9326
KEEL ecoli-0-3-4-6_vs_5	0.9234	0.9277	0.9361	0.9271	0.9371
KEEL ecoli-0-3-4-7_vs_5-6	0.9291	0.9271	0.9354	0.9297	0.9346
KEEL ecoli-0-3-4_vs_5	0.8937	0.9117	0.9181	0.9357	0.9329
KEEL ecoli-0-4-6_vs_5	0.9528	0.9686	0.9517	0.9559	0.9431
KEEL ecoli-0-6-7_vs_3-5	0.8812	0.8921	0.8887	0.8892	0.9086
KEEL ecoli-0-6-7_vs_5	0.9090	0.9228	0.9341	0.9189	0.9221
KEEL ecoli-0-vs_1	0.9843	0.9930	0.9843	0.9873	0.9938
KEEL ecoli1	0.9477	0.9436	0.9495	0.9464	0.9484
KEEL ecoli2	0.9208	0.9170	0.9624	0.9140	0.9306
KEEL ecoli3	0.9097	0.9104	0.9216	0.9050	0.9275
KEEL ecoli4	0.9229	0.9464	0.9325	0.9170	0.9611
KEEL glass-0-1-2-3_vs_4-5	0.9454	0.9701	0.9524	0.9487	0.9699
KEEL glass-0-1-4-6_vs_2	0.7098	0.6649	0.6952	0.6818	0.8192
KEEL glass-0-1-5_vs_2	0.7057	0.6810	0.6641	0.6575	0.7716
KEEL glass-0-1-6_vs_2	0.6754	0.6098	0.6898	0.6709	0.7675
KEEL glass-0-1-6_vs_5	0.9889	0.9389	0.9737	0.9548	0.9301
KEEL glass-0-4_vs_5	0.9940	0.9839	0.9886	0.9843	0.9442
KEEL glass-0-6_vs_5	0.9476	0.9849	0.9436	0.9266	0.9285
KEEL glass0	0.8400	0.8761	0.8614	0.8700	0.8904
KEEL glass1	0.8012	0.8460	0.8258	0.8268	0.8480
KEEL glass2	0.7548	0.7039	0.7185	0.7333	0.8236
KEEL glass4	0.8898	0.9333	0.8999	0.9071	0.9485
KEEL glass5	0.9908	0.9263	0.9747	0.9186	0.8698
KEEL glass6	0.9428	0.9450	0.9524	0.9232	0.9616
KEEL haberman	0.6971	0.6784	0.6824	0.6953	0.6812
KEEL iris0	0.9820	1.0000	0.9940	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9323	0.9478	0.9388	0.9415	0.9522
KEEL new-thyroid1	0.9699	0.9784	0.9885	0.9912	0.9844
KEEL new-thyroid2	0.9765	0.9837	0.9800	0.9769	0.9888
KEEL page-blocks-1-3_vs_4	0.9937	0.9956	0.9975	0.9956	0.9948
KEEL pima	0.8035	0.7979	0.7960	0.8032	0.8092
KEEL shuttle-c0-vs-c4	1.0000	0.9969	0.9992	0.9998	0.9934
KEEL shuttle-c2-vs-c4	1.0000	0.9989	0.9667	0.9817	0.9798
KEEL vehicle0	0.9773	0.9866	0.9795	0.9849	0.9912
KEEL vehicle1	0.8296	0.8306	0.8298	0.8277	0.8366
KEEL vehicle2	0.9833	0.9868	0.9862	0.9891	0.9860
KEEL vehicle3	0.8342	0.8415	0.8301	0.8151	0.8344
KEEL vowel0	0.9935	0.9941	0.9923	0.9905	0.9954
KEEL wisconsin	0.9855	0.9901	0.9931	0.9873	0.9894
KEEL yeast-0-2-5-6_vs_3-7	0.8113	0.8219	0.8091	0.8069	0.8506
KEEL yeast-0-2-5-7-9_vs_3	0.9205	0.9276	0.9199	0.9181	0.9333
KEEL yeast-0-3-5-9_vs_7-8	0.7517	0.7530	0.7504	0.7409	0.7442
KEEL yeast-0-5-6-7-9_vs_4	0.8779	0.8860	0.8682	0.8723	0.8686
KEEL yeast-1-2-8-9_vs_7	0.7953	0.7776	0.7645	0.7810	0.7584
KEEL yeast-1-4-5-8_vs_7	0.6618	0.6576	0.6404	0.6590	0.6622
KEEL yeast-1_vs_7	0.8336	0.8059	0.8268	0.8314	0.8025
KEEL yeast-2_vs_4	0.9695	0.9763	0.9746	0.9669	0.9680
KEEL yeast-2_vs_8	0.7865	0.7920	0.7753	0.7979	0.6636
KEEL yeast1	0.7770	0.7868	0.7719	0.7793	0.7827
KEEL yeast3	0.9703	0.9717	0.9695	0.9717	0.9700
KEEL yeast4	0.9303	0.9346	0.9258	0.9333	0.9056
KEEL yeast5	0.9618	0.9705	0.9694	0.9736	0.9715
KEEL yeast6	0.9006	0.8978	0.9016	0.9101	0.9114

Table 5: F-measure for E-SM100 ensembles.

Dataset	E-SM100	O+ E-SM100	DN+ E-SM100	RFW+ E-SM100	RF+ E-SM100
HDDT PhosS	0.1391	0.1537	0.1356	0.1300	0.1253
HDDT boundary	0.0805	0.0875	0.0891	0.0841	0.0686
HDDT breast-y	0.4090	0.3901	0.4171	0.3896	0.4184
HDDT cam	0.1525	0.1487	0.1511	0.1491	0.1524
HDDT compustat	0.3000	0.3062	0.3430	0.2957	0.2599
HDDT covtype	0.8660	0.8633	0.8642	0.8558	0.8507
HDDT credit-g	0.4901	0.4974	0.5161	0.4594	0.4995
HDDT estate	0.0638	0.0836	0.0950	0.0674	0.0682
HDDT german-numer	0.5139	0.5196	0.5136	0.4862	0.5332
HDDT heart-v	0.4017	0.4110	0.4015	0.3814	0.3745
HDDT hypo	0.8946	0.8912	0.8919	0.8950	0.8566
HDDT ism	0.6637	0.6587	0.6634	0.6514	0.6489
HDDT letter	0.9454	0.9445	0.9430	0.9186	0.9429
HDDT oil	0.4802	0.4957	0.5193	0.3876	0.4697
HDDT optdigits	0.9741	0.9715	0.9753	0.9643	0.9743
HDDT page	0.8730	0.8765	0.8674	0.8734	0.8730
HDDT pendigits	0.9608	0.9653	0.9667	0.9588	0.9629
HDDT phoneme	0.7785	0.7832	0.7857	0.7776	0.7686
HDDT satimage	0.6443	0.6390	0.6529	0.6229	0.6432
HDDT segment	0.9754	0.9697	0.9758	0.9700	0.9818
KEEL abalone19	0.0080	0.0105	0.0083	0.0000	0.0000
KEEL abalone9-18	0.3175	0.3114	0.3243	0.3531	0.4242
KEEL cleveland-0_vs_4	0.4737	0.4627	0.5293	0.4419	0.5255
KEEL ecoli-0-1-3-7_vs_2-6	0.5194	0.5151	0.5266	0.4571	0.5740
KEEL ecoli-0-1-4-6_vs_5	0.7296	0.7215	0.7514	0.7253	0.7529
KEEL ecoli-0-1-4-7_vs_2-3	0.6560	0.7111	0.7453	0.6603	0.7142
KEEL ecoli-0-1-4-7_vs_5-6	0.6627	0.5978	0.6497	0.6432	0.6378
KEEL ecoli-0-1_vs_2-3-5	0.7151	0.7359	0.7477	0.7524	0.7089
KEEL ecoli-0-1_vs_5	0.7233	0.6749	0.7530	0.7553	0.7567
KEEL ecoli-0-2-3-4_vs_5	0.7166	0.7981	0.7628	0.7598	0.7919
KEEL ecoli-0-2-6-7_vs_3-5	0.7757	0.7790	0.7599	0.7786	0.7308
KEEL ecoli-0-3-4-6_vs_5	0.6845	0.7241	0.6896	0.6873	0.7225
KEEL ecoli-0-3-4-7_vs_5-6	0.7472	0.7578	0.7510	0.7236	0.7305
KEEL ecoli-0-3-4_vs_5	0.7337	0.7281	0.7441	0.7602	0.7719
KEEL ecoli-0-4-6_vs_5	0.7274	0.7841	0.7942	0.7427	0.7381
KEEL ecoli-0-6-7_vs_3-5	0.7058	0.7011	0.6992	0.6643	0.6538
KEEL ecoli-0-6-7_vs_5	0.7949	0.8104	0.7887	0.8041	0.6898
KEEL ecoli-0_vs_1	0.9778	0.9703	0.9704	0.9619	0.9626
KEEL ecoli1	0.7767	0.7722	0.7761	0.7742	0.7723
KEEL ecoli2	0.7982	0.7797	0.8229	0.7734	0.8124
KEEL ecoli3	0.5676	0.5581	0.5450	0.5363	0.5961
KEEL ecoli4	0.6888	0.7281	0.7374	0.6822	0.7410
KEEL glass-0-1-2-3_vs_4-5	0.8375	0.8594	0.8337	0.8392	0.8597
KEEL glass-0-1-4-6_vs_2	0.2302	0.2467	0.1876	0.2269	0.2582
KEEL glass-0-1-5_vs_2	0.2972	0.1895	0.2079	0.2606	0.3099
KEEL glass-0-1-6_vs_2	0.2419	0.1847	0.1113	0.2119	0.2431
KEEL glass-0-1-6_vs_5	0.7390	0.6384	0.7469	0.6027	0.4660
KEEL glass-0-4_vs_5	0.9505	0.9154	0.9105	0.8136	0.7867
KEEL glass-0-6_vs_5	0.8863	0.8042	0.6139	0.7307	0.5936
KEEL glass0	0.7013	0.7178	0.7104	0.7155	0.7177
KEEL glass1	0.6551	0.6909	0.6528	0.6513	0.6844
KEEL glass2	0.1898	0.1688	0.2183	0.1549	0.2857
KEEL glass4	0.4384	0.5401	0.4876	0.4654	0.5040
KEEL glass5	0.8325	0.5360	0.7721	0.6277	0.3709
KEEL glass6	0.8153	0.8007	0.8049	0.7685	0.8040
KEEL haberman	0.4875	0.4539	0.4478	0.4844	0.4508
KEEL iris0	0.9813	0.9876	0.9938	0.9958	1.0000
KEEL led7digit-0-2-4-5-6-	0.7422	0.7469	0.7384	0.7513	0.7551
KEEL new-thyroid1	0.8843	0.9079	0.9133	0.8934	0.9217
KEEL new-thyroid2	0.9117	0.9018	0.9116	0.9070	0.9382
KEEL page-blocks-1-3_vs_4	0.9320	0.8975	0.9170	0.8839	0.8334
KEEL pima	0.6601	0.6472	0.6402	0.6551	0.6622
KEEL shuttle-c0-vs-c4	1.0000	0.9975	0.9975	0.9976	0.9884
KEEL shuttle-c2-vs-c4	1.0000	0.9457	0.9600	0.8800	0.8371
KEEL vehicle0	0.8637	0.8828	0.8629	0.8789	0.9187
KEEL vehicle1	0.5822	0.5852	0.5596	0.5830	0.6000
KEEL vehicle2	0.9166	0.9302	0.9205	0.9226	0.9081
KEEL vehicle3	0.5665	0.5715	0.5582	0.5553	0.5765
KEEL vowel0	0.9009	0.8930	0.8913	0.8956	0.9030
KEEL wisconsin	0.9380	0.9470	0.9537	0.9313	0.9468
KEEL yeast-0-2-5-6_vs_3-7	0.5403	0.5306	0.5445	0.5150	0.6000
KEEL yeast-0-2-5-7-9_vs_3	0.7622	0.7705	0.7653	0.7454	0.7900
KEEL yeast-0-3-5-9_vs_7-8	0.3768	0.3599	0.3608	0.3424	0.3546
KEEL yeast-0-5-6-7-9_vs_4	0.4546	0.4779	0.4624	0.4734	0.4903
KEEL yeast-1-2-8-9_vs_7	0.2349	0.2219	0.2544	0.2520	0.1535
KEEL yeast-1-4-5-8_vs_7	0.0578	0.0448	0.1266	0.0291	0.0585
KEEL yeast-1_vs_7	0.3838	0.3717	0.3640	0.3333	0.3023
KEEL yeast-2_vs_4	0.7337	0.7321	0.7425	0.7301	0.7379
KEEL yeast-2_vs_8	0.4860	0.5090	0.4477	0.4956	0.3141
KEEL yeast1	0.5794	0.5885	0.5644	0.5837	0.5765
KEEL yeast3	0.7732	0.7797	0.7745	0.7733	0.7787
KEEL yeast4	0.4164	0.4011	0.3918	0.4313	0.3650
KEEL yeast5	0.7323	0.7227	0.7041	0.7107	0.6642
KEEL yeast6	0.5449	0.5285	0.4263	0.5136	0.5056

Table 6: G-mean for E-SM100 ensembles, HDDT and KEEL datasets.

Dataset	E-SM100	O+ E-SM100	DN+ E-SM100	RFW+ E-SM100	RF+ E-SM100
HDDT PhosS	0.2953	0.3173	0.2913	0.2848	0.2755
HDDT boundary	0.3064	0.3183	0.3174	0.3139	0.2868
HDDT breast-y	0.5525	0.5340	0.5586	0.5347	0.5597
HDDT cam	0.4044	0.3983	0.4065	0.3975	0.4117
HDDT compustat	0.4509	0.4562	0.4929	0.4469	0.4033
HDDT covtype	0.9242	0.9245	0.9222	0.9165	0.9159
HDDT credit-g	0.6209	0.6232	0.6405	0.5945	0.6263
HDDT estate	0.1905	0.2219	0.2439	0.1949	0.1928
HDDT german-numer	0.6374	0.6385	0.6360	0.6133	0.6528
HDDT heart-v	0.5517	0.5559	0.5546	0.5292	0.5134
HDDT hypo	0.9349	0.9354	0.9346	0.9423	0.9205
HDDT ism	0.7749	0.7699	0.7782	0.7663	0.7749
HDDT letter	0.9685	0.9647	0.9634	0.9501	0.9579
HDDT oil	0.6591	0.6546	0.6832	0.5821	0.6156
HDDT optdigits	0.9844	0.9818	0.9840	0.9800	0.9818
HDDT page	0.9340	0.9330	0.9290	0.9326	0.9350
HDDT pendigits	0.9732	0.9783	0.9796	0.9724	0.9736
HDDT phoneme	0.8552	0.8585	0.8570	0.8536	0.8467
HDDT satimage	0.7701	0.7694	0.7763	0.7569	0.7753
HDDT segment	0.9845	0.9847	0.9860	0.9820	0.9888
KEEL abalone19	0.0250	0.0250	0.0250	0.0000	0.0000
KEEL abalone9-18	0.5072	0.4969	0.5230	0.5160	0.5710
KEEL cleveland-0-vs_4	0.5855	0.6080	0.6567	0.5946	0.6471
KEEL ecoli-0-1-3-7_vs_2-6	0.6679	0.6335	0.7006	0.5684	0.6859
KEEL ecoli-0-1-4-6_vs_5	0.8418	0.8424	0.8655	0.8404	0.8320
KEEL ecoli-0-1-4-7_vs_2-3	0.7693	0.8004	0.8180	0.7654	0.8082
KEEL ecoli-0-1-4-7_vs_5-6	0.7788	0.6766	0.7763	0.7468	0.7503
KEEL ecoli-0-1_vs_2-3-5	0.8438	0.8302	0.8378	0.8580	0.7937
KEEL ecoli-0-1_vs_5	0.8460	0.8199	0.8441	0.8523	0.8250
KEEL ecoli-0-2-3-4_vs_5	0.8516	0.8764	0.8722	0.8669	0.8647
KEEL ecoli-0-2-6-7_vs_3-5	0.8526	0.8483	0.8498	0.8526	0.7850
KEEL ecoli-0-3-4-6_vs_5	0.8373	0.8643	0.8398	0.8336	0.8143
KEEL ecoli-0-3-4-7_vs_5-6	0.8448	0.8415	0.8613	0.8410	0.8050
KEEL ecoli-0-3-4_vs_5	0.8479	0.8418	0.8405	0.8435	0.8633
KEEL ecoli-0-4-6_vs_5	0.8553	0.8632	0.8762	0.8377	0.8183
KEEL ecoli-0-6-7_vs_3-5	0.8152	0.8035	0.8052	0.7835	0.7434
KEEL ecoli-0-6-7_vs_5	0.8890	0.8956	0.8832	0.8948	0.8059
KEEL ecoli-0-vs_1	0.9820	0.9778	0.9778	0.9695	0.9686
KEEL ecoli1	0.8643	0.8585	0.8622	0.8615	0.8637
KEEL ecoli2	0.8657	0.8585	0.8793	0.8511	0.8824
KEEL ecoli3	0.7461	0.7401	0.7250	0.7175	0.7699
KEEL ecoli4	0.8166	0.8500	0.8398	0.8099	0.8126
KEEL glass-0-1-2-3_vs_4-5	0.8908	0.9049	0.8862	0.8901	0.9115
KEEL glass-0-1-4-6_vs_2	0.3307	0.3768	0.3450	0.3564	0.4010
KEEL glass-0-1-5_vs_2	0.4614	0.2771	0.3379	0.4095	0.4681
KEEL glass-0-1-6_vs_2	0.3964	0.3436	0.2265	0.3924	0.4124
KEEL glass-0-1-6_vs_5	0.8617	0.7986	0.8638	0.7396	0.6133
KEEL glass-0-4_vs_5	0.9939	0.9461	0.9695	0.9124	0.8637
KEEL glass-0-6_vs_5	0.9485	0.8836	0.7241	0.8123	0.6546
KEEL glass0	0.7791	0.7930	0.7836	0.7905	0.7925
KEEL glass1	0.7255	0.7561	0.7249	0.7240	0.7515
KEEL glass2	0.3575	0.3170	0.3761	0.2996	0.4269
KEEL glass4	0.6524	0.7204	0.6686	0.6488	0.6645
KEEL glass5	0.9690	0.6893	0.8869	0.8139	0.5730
KEEL glass6	0.8973	0.8792	0.8921	0.8538	0.8765
KEEL haberman	0.6370	0.6080	0.6036	0.6344	0.5975
KEEL iris0	0.9816	0.9878	0.9939	0.9959	1.0000
KEEL led7digit-0-2-4-5-6-	0.8685	0.8743	0.8729	0.8774	0.8829
KEEL new-thyroid1	0.9360	0.9393	0.9474	0.9420	0.9491
KEEL new-thyroid2	0.9427	0.9408	0.9427	0.9393	0.9666
KEEL page-blocks-1-3_vs_4	0.9600	0.9506	0.9405	0.9473	0.9067
KEEL pima	0.7339	0.7240	0.7187	0.7307	0.7363
KEEL shuttle-c0-vs-c4	1.0000	0.9975	0.9983	0.9998	0.9899
KEEL shuttle-c2-vs-c4	1.0000	0.9625	0.9633	0.8816	0.9337
KEEL vehicle0	0.9164	0.9294	0.9192	0.9286	0.9537
KEEL vehicle1	0.7164	0.7197	0.6953	0.7160	0.7310
KEEL vehicle2	0.9487	0.9591	0.9519	0.9498	0.9394
KEEL vehicle3	0.7064	0.7075	0.6915	0.7001	0.7149
KEEL vowel0	0.9457	0.9376	0.9414	0.9358	0.9553
KEEL wisconsin	0.9545	0.9606	0.9671	0.9480	0.9612
KEEL yeast-0-2-5-6_vs_3-7	0.6672	0.6636	0.6802	0.6526	0.7342
KEEL yeast-0-2-5-7-9_vs_3	0.8472	0.8577	0.8530	0.8310	0.8748
KEEL yeast-0-3-5-9_vs_7-8	0.5359	0.5312	0.5369	0.4971	0.5393
KEEL yeast-0-5-6-7-9_vs_4	0.6386	0.6583	0.6423	0.6452	0.6433
KEEL yeast-1-2-8-9_vs_7	0.3992	0.3558	0.4252	0.4005	0.2907
KEEL yeast-1-4-5-8_vs_7	0.1336	0.1129	0.2301	0.0769	0.1214
KEEL yeast-1_vs_7	0.5617	0.5657	0.5614	0.4956	0.4742
KEEL yeast-2_vs_4	0.8507	0.8484	0.8650	0.8573	0.8638
KEEL yeast-2_vs_8	0.5706	0.6170	0.5464	0.5712	0.3662
KEEL yeast1	0.6981	0.7054	0.6849	0.7010	0.6950
KEEL yeast3	0.8843	0.8892	0.8823	0.8816	0.8855
KEEL yeast4	0.5903	0.5810	0.5874	0.6126	0.5493
KEEL yeast5	0.8589	0.8552	0.8420	0.8564	0.8467
KEEL yeast6	0.7062	0.7006	0.6053	0.6797	0.6713

Table 7: AUC for E-SM ensembles, HDDT and KEEL datasets.

Dataset	E-SM	O+ E-SM	DN+ E-SM	RFW+ E-SM	RF+ E-SM
HDDT PhosS	0.6815	0.7327	0.6857	0.7465	0.7265
HDDT boundary	0.6258	0.6191	0.6347	0.6052	0.5930
HDDT breast-y	0.6038	0.6240	0.6135	0.6019	0.6244
HDDT cam	0.6651	0.6659	0.6671	0.6560	0.6511
HDDT compustat	0.8966	0.9150	0.9061	0.9013	0.9171
HDDT covtype	0.9916	0.9942	0.9929	0.9927	0.9930
HDDT credit-g	0.7031	0.7390	0.7218	0.6726	0.7388
HDDT estate	0.5896	0.5957	0.5905	0.5875	0.6053
HDDT german-numer	0.7350	0.7436	0.7418	0.7242	0.7355
HDDT heart-v	0.6372	0.6813	0.6681	0.6756	0.6981
HDDT hypo	0.9877	0.9895	0.9880	0.9917	0.9921
HDDT ism	0.9332	0.9404	0.9411	0.9435	0.9468
HDDT letter	0.9952	0.9996	0.9972	0.9998	0.9999
HDDT oil	0.8860	0.9138	0.8956	0.8677	0.8995
HDDT optdigits	0.9966	0.9987	0.9981	0.9971	0.9980
HDDT page	0.9900	0.9912	0.9907	0.9899	0.9910
HDDT pendigits	0.9987	0.9991	0.9998	0.9968	0.9990
HDDT phoneme	0.9312	0.9378	0.9435	0.9288	0.9293
HDDT satimage	0.9430	0.9519	0.9469	0.9567	0.9615
HDDT segment	0.9932	0.9970	0.9969	0.9945	0.9993
KEEL abalone19	0.7165	0.7218	0.7452	0.7499	0.7554
KEEL abalone9-18	0.7729	0.7859	0.7853	0.7710	0.8761
KEEL cleveland-0_vs_4	0.8764	0.9597	0.8878	0.9582	0.9509
KEEL ecoli-0-1-3-7_vs_2-6	0.8398	0.9334	0.8630	0.9407	0.9374
KEEL ecoli-0-1-4-6_vs_5	0.9098	0.9762	0.9600	0.9807	0.9793
KEEL ecoli-0-1-4-7_vs_2-3	0.8991	0.9100	0.9258	0.8787	0.9064
KEEL ecoli-0-1-4-7_vs_5-6	0.9119	0.9566	0.9480	0.8703	0.9388
KEEL ecoli-0-1_vs_2-3-5	0.9302	0.9663	0.9481	0.9278	0.9362
KEEL ecoli-0-1_vs_5	0.8660	0.9715	0.9688	0.9778	0.9825
KEEL ecoli-0-2-3-4_vs_5	0.9255	0.9583	0.9496	0.9348	0.9458
KEEL ecoli-0-2-6-7_vs_3-5	0.9165	0.9389	0.9343	0.9016	0.9300
KEEL ecoli-0-3-4-6_vs_5	0.9023	0.9498	0.9076	0.9104	0.9332
KEEL ecoli-0-3-4-7_vs_5-6	0.9092	0.9341	0.9438	0.8776	0.9178
KEEL ecoli-0-3-4_vs_5	0.8757	0.9732	0.9169	0.9817	0.9729
KEEL ecoli-0-4-6_vs_5	0.9115	0.9592	0.9477	0.9139	0.9360
KEEL ecoli-0-6-7_vs_3-5	0.9083	0.9415	0.9218	0.9376	0.9470
KEEL ecoli-0-6-7_vs_5	0.9541	0.9623	0.9557	0.9605	0.9608
KEEL ecoli-0_vs_1	0.9845	0.9910	0.9846	0.9874	0.9943
KEEL ecoli1	0.9450	0.9499	0.9461	0.9419	0.9535
KEEL ecoli2	0.9351	0.9533	0.9460	0.9523	0.9543
KEEL ecoli3	0.9155	0.9315	0.9229	0.9175	0.9336
KEEL ecoli4	0.8896	0.9284	0.9828	0.9154	0.9625
KEEL glass-0-1-2-3_vs_4-5	0.9466	0.9797	0.9629	0.9737	0.9850
KEEL glass-0-1-4-6_vs_2	0.7041	0.7229	0.7126	0.7661	0.8327
KEEL glass-0-1-5_vs_2	0.6959	0.7122	0.6911	0.7219	0.7087
KEEL glass-0-1-6_vs_2	0.6464	0.7238	0.6875	0.6695	0.8076
KEEL glass-0-1-6_vs_5	0.9897	0.9927	0.9963	0.9806	0.9459
KEEL glass-0-4_vs_5	0.9940	0.9995	0.9940	0.9988	0.9769
KEEL glass-0-6_vs_5	0.9464	0.9992	0.9951	0.9969	0.9974
KEEL glass0	0.8389	0.8741	0.8631	0.8413	0.8578
KEEL glass1	0.7936	0.8256	0.8167	0.8039	0.8109
KEEL glass2	0.7838	0.7885	0.8089	0.7692	0.8412
KEEL glass4	0.8235	0.9634	0.9190	0.8847	0.9371
KEEL glass5	0.9888	0.9937	0.9930	0.9583	0.9566
KEEL glass6	0.9441	0.9604	0.9403	0.9537	0.9689
KEEL haberman	0.6937	0.6917	0.6676	0.6920	0.6826
KEEL iris0	0.9820	1.0000	0.9940	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9438	0.9602	0.9456	0.9578	0.9582
KEEL new-thyroid1	0.9647	0.9850	0.9763	0.9760	0.9947
KEEL new-thyroid2	0.9690	0.9756	0.9929	0.9812	0.9943
KEEL page-blocks-1-3_vs_4	0.9766	0.9979	0.9776	0.9750	0.9903
KEEL pima	0.8035	0.8077	0.7974	0.7976	0.8135
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9167	0.9927
KEEL vehicle0	0.9786	0.9857	0.9854	0.9791	0.9818
KEEL vehicle1	0.8318	0.8405	0.8329	0.8357	0.8661
KEEL vehicle2	0.9834	0.9967	0.9860	0.9962	0.9981
KEEL vehicle3	0.8310	0.8327	0.8355	0.8258	0.8323
KEEL vowel0	0.9957	0.9929	0.9971	0.9895	0.9908
KEEL wisconsin	0.9851	0.9914	0.9915	0.9856	0.9901
KEEL yeast-0-2-5-6_vs_3-7	0.8345	0.8365	0.8408	0.8124	0.8270
KEEL yeast-0-2-5-7-9_vs_3	0.9366	0.9384	0.9425	0.9195	0.9325
KEEL yeast-0-3-5-9_vs_7-8	0.7336	0.7308	0.7444	0.7321	0.7143
KEEL yeast-0-5-6-7-9_vs_4	0.8795	0.8860	0.8765	0.8734	0.8758
KEEL yeast-1-2-8-9_vs_7	0.7245	0.7287	0.7297	0.6983	0.7225
KEEL yeast-1-4-5-8_vs_7	0.6268	0.6647	0.6422	0.6421	0.6679
KEEL yeast-1_vs_7	0.7734	0.7993	0.7874	0.7704	0.7870
KEEL yeast-2_vs_4	0.9785	0.9794	0.9784	0.9778	0.9815
KEEL yeast-2_vs_8	0.7960	0.8238	0.7864	0.8104	0.6686
KEEL yeast1	0.7769	0.7875	0.7825	0.7737	0.7932
KEEL yeast3	0.9707	0.9708	0.9700	0.9700	0.9661
KEEL yeast4	0.9256	0.9315	0.9253	0.9271	0.9363
KEEL yeast5	0.9627	0.9902	0.9778	0.9567	0.9766
KEEL yeast6	0.8884	0.9046	0.9024	0.9138	0.9259

Table 8: F-measure for E-SM ensembles, HDDT and KEEL datasets.

Dataset	E-SM	O+ E-SM	DN+ E-SM	RFW+ E-SM	RF+ E-SM
HDDT PhosS	0.1307	0.1139	0.1304	0.0058	0.0665
HDDT boundary	0.1204	0.1070	0.1236	0.0664	0.0937
HDDT breast-y	0.4014	0.4142	0.4092	0.4072	0.3935
HDDT cam	0.1598	0.1555	0.1589	0.1523	0.1516
HDDT compustat	0.3648	0.3981	0.3845	0.3733	0.3841
HDDT covtype	0.8618	0.8792	0.8701	0.8676	0.8488
HDDT credit-g	0.4856	0.5279	0.5038	0.4717	0.5187
HDDT estate	0.2212	0.2137	0.2082	0.2191	0.2340
HDDT german-numer	0.5214	0.5234	0.5176	0.5106	0.5318
HDDT heart-v	0.4017	0.4089	0.3930	0.4140	0.4004
HDDT hypo	0.8393	0.8537	0.8492	0.8584	0.8712
HDDT ism	0.5498	0.5744	0.5760	0.5974	0.5612
HDDT letter	0.9292	0.9616	0.9324	0.9583	0.9811
HDDT oil	0.4246	0.5121	0.4443	0.4393	0.4908
HDDT optdigits	0.9717	0.9812	0.9812	0.9665	0.9800
HDDT page	0.8410	0.8537	0.8499	0.8423	0.8416
HDDT pendigits	0.9638	0.9766	0.9780	0.9564	0.9658
HDDT phoneme	0.7837	0.7918	0.8013	0.7824	0.7737
HDDT satimage	0.6331	0.6547	0.6403	0.6678	0.6736
HDDT segment	0.9714	0.9738	0.9742	0.9679	0.9806
KEEL abalone19	0.0450	0.0449	0.0534	0.0554	0.0496
KEEL abalone9-18	0.2959	0.2804	0.2882	0.2730	0.3762
KEEL cleveland-0-vs-4	0.5445	0.6689	0.5372	0.5842	0.6454
KEEL ecoli-0-1-3-7_vs_2-6	0.4714	0.5908	0.5500	0.4602	0.5240
KEEL ecoli-0-1-4-6_vs_5	0.6806	0.7437	0.6937	0.7241	0.8012
KEEL ecoli-0-1-4-7_vs_2-3	0.6156	0.6634	0.6499	0.6089	0.6110
KEEL ecoli-0-1-4-7_vs_5-6	0.6999	0.7280	0.6924	0.5854	0.7297
KEEL ecoli-0-1_vs_2-3-5	0.6923	0.7320	0.7022	0.6968	0.7249
KEEL ecoli-0-1_vs_5	0.6673	0.7215	0.7057	0.7494	0.8032
KEEL ecoli-0-2-3-4_vs_5	0.7038	0.7530	0.7379	0.7158	0.7342
KEEL ecoli-0-2-6-7_vs_3-5	0.7042	0.7083	0.7474	0.6855	0.6926
KEEL ecoli-0-3-4-6_vs_5	0.7384	0.7128	0.7170	0.7213	0.7159
KEEL ecoli-0-3-4-7_vs_5-6	0.7031	0.7364	0.7249	0.6313	0.6582
KEEL ecoli-0-3-4_vs_5	0.6789	0.7202	0.7446	0.7252	0.7736
KEEL ecoli-0-4-6_vs_5	0.6703	0.7118	0.6991	0.6913	0.7363
KEEL ecoli-0-6-7_vs_3-5	0.6845	0.7027	0.7005	0.6891	0.7282
KEEL ecoli-0-6-7_vs_5	0.7521	0.7714	0.7536	0.7712	0.7860
KEEL ecoli-0_vs_1	0.9778	0.9725	0.9741	0.9666	0.9703
KEEL ecoli1	0.7665	0.7726	0.7707	0.7622	0.7586
KEEL ecoli2	0.7864	0.7966	0.7906	0.8149	0.8405
KEEL ecoli3	0.5892	0.6003	0.6058	0.5891	0.6274
KEEL ecoli4	0.6535	0.7384	0.7521	0.7281	0.7382
KEEL glass-0-1-2-3_vs_4-5	0.8305	0.8617	0.8401	0.8550	0.8800
KEEL glass-0-1-4-6_vs_2	0.3450	0.3283	0.3336	0.3435	0.3536
KEEL glass-0-1-5_vs_2	0.3091	0.3283	0.3067	0.2860	0.2512
KEEL glass-0-1-6_vs_2	0.2236	0.2392	0.2505	0.2109	0.3033
KEEL glass-0-1-6_vs_5	0.7928	0.7852	0.8007	0.6457	0.6232
KEEL glass-0-4_vs_5	0.9505	0.9473	0.9505	0.9283	0.8145
KEEL glass-0-6_vs_5	0.8863	0.9146	0.8863	0.8735	0.8218
KEEL glass0	0.7017	0.7143	0.7079	0.6758	0.6961
KEEL glass1	0.6303	0.6563	0.6508	0.6292	0.6537
KEEL glass2	0.3171	0.3214	0.3051	0.3082	0.3368
KEEL glass4	0.5083	0.5818	0.4886	0.5502	0.5708
KEEL glass5	0.7772	0.7883	0.7757	0.6532	0.5925
KEEL glass6	0.8162	0.8093	0.8208	0.8334	0.8159
KEEL haberman	0.4733	0.4875	0.4450	0.4790	0.4724
KEEL iris0	0.9813	0.9876	0.9938	0.9958	1.0000
KEEL led7digit-0-2-4-5-6-	0.7672	0.7607	0.7723	0.7543	0.7536
KEEL new-thyroid1	0.8946	0.8922	0.8861	0.9116	0.8945
KEEL new-thyroid2	0.9154	0.9195	0.9125	0.8954	0.9307
KEEL page-blocks-1-3_vs_4	0.9325	0.9201	0.9325	0.8407	0.8549
KEEL pima	0.6608	0.6613	0.6446	0.6465	0.6656
KEEL shuttle-c0-vs-c4	1.0000	0.9967	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9800	0.8900	0.7874
KEEL vehicle0	0.8604	0.8762	0.8734	0.8685	0.8751
KEEL vehicle1	0.5912	0.5978	0.5930	0.5885	0.6509
KEEL vehicle2	0.9156	0.9483	0.9253	0.9490	0.9718
KEEL vehicle3	0.5766	0.5833	0.5747	0.5822	0.5864
KEEL vowel0	0.8829	0.8987	0.8952	0.8407	0.8617
KEEL wisconsin	0.9380	0.9428	0.9414	0.9320	0.9547
KEEL yeast-0-2-5-6_vs_3-7	0.5470	0.5481	0.5570	0.5197	0.5083
KEEL yeast-0-2-5-7-9_vs_3	0.7452	0.7519	0.7604	0.7272	0.7082
KEEL yeast-0-3-5-9_vs_7-8	0.3574	0.3445	0.3759	0.3644	0.3302
KEEL yeast-0-5-6-7-9_vs_4	0.4689	0.4763	0.4693	0.4811	0.4718
KEEL yeast-1-2-8-9_vs_7	0.2036	0.1739	0.1886	0.1745	0.1568
KEEL yeast-1-4-5-8_vs_7	0.1532	0.1784	0.1607	0.1655	0.1528
KEEL yeast-1_vs_7	0.2769	0.3159	0.2701	0.2734	0.3028
KEEL yeast-2_vs_4	0.7271	0.7412	0.7403	0.7308	0.7588
KEEL yeast-2_vs_8	0.4263	0.4548	0.4583	0.4225	0.2778
KEEL yeast1	0.5783	0.5863	0.5812	0.5750	0.5874
KEEL yeast3	0.7775	0.7758	0.7757	0.7721	0.7333
KEEL yeast4	0.3565	0.3800	0.3547	0.3702	0.3741
KEEL yeast5	0.7168	0.7282	0.7358	0.6735	0.6328
KEEL yeast6	0.3889	0.4266	0.4075	0.4368	0.4483

Dataset	E-SM	O+ E-SM	DN+ E-SM	RFW+ E-SM	RF+ E-SM
HDDT PhosS	0.3153	0.2664	0.3146	0.0447	0.1881
HDDT boundary	0.3482	0.3263	0.3596	0.2634	0.3626
HDDT breast-y	0.5462	0.5578	0.5528	0.5493	0.5396
HDDT cam	0.4137	0.3844	0.4026	0.3969	0.4053
HDDT compustat	0.7509	0.7669	0.7561	0.7466	0.7913
HDDT covtype	0.9460	0.9524	0.9482	0.9478	0.9552
HDDT credit-g	0.6170	0.6486	0.6297	0.6046	0.6398
HDDT estate	0.5030	0.4904	0.4809	0.5045	0.5339
HDDT german-numer	0.6434	0.6430	0.6386	0.6325	0.6535
HDDT heart-v	0.5615	0.5588	0.5414	0.5662	0.5393
HDDT hypo	0.9329	0.9397	0.9375	0.9454	0.9566
HDDT ism	0.8709	0.8739	0.8753	0.8692	0.8947
HDDT letter	0.9664	0.9705	0.9649	0.9622	0.9850
HDDT oil	0.6819	0.7225	0.7003	0.6957	0.7409
HDDT optdigits	0.9854	0.9892	0.9894	0.9817	0.9863
HDDT page	0.9468	0.9530	0.9497	0.9457	0.9521
HDDT pendigits	0.9799	0.9860	0.9861	0.9764	0.9830
HDDT phoneme	0.8613	0.8671	0.8714	0.8603	0.8556
HDDT satimage	0.8174	0.8215	0.8184	0.8195	0.8605
HDDT segment	0.9853	0.9865	0.9878	0.9842	0.9879
KEEL abalone19	0.3596	0.3636	0.3979	0.3892	0.4954
KEEL abalone9-18	0.6103	0.5826	0.5858	0.5619	0.6976
KEEL cleveland-0_vs_4	0.7143	0.7697	0.6815	0.6613	0.7447
KEEL ecoli-0-1-3-7_vs_2-6	0.6534	0.7739	0.7397	0.6378	0.7587
KEEL ecoli-0-1-4-6_vs_5	0.8063	0.8495	0.8401	0.8321	0.8649
KEEL ecoli-0-1-4-7_vs_2-3	0.8156	0.8322	0.8123	0.7999	0.7874
KEEL ecoli-0-1-4-7_vs_5-6	0.8533	0.8691	0.8437	0.7691	0.8693
KEEL ecoli-0-1_vs_2-3-5	0.8515	0.8750	0.8687	0.8602	0.8666
KEEL ecoli-0-1_vs_5	0.8037	0.8311	0.8237	0.8376	0.8691
KEEL ecoli-0-2-3-4_vs_5	0.8644	0.8792	0.8765	0.8489	0.8519
KEEL ecoli-0-2-6-7_vs_3-5	0.8427	0.8523	0.8627	0.8261	0.8443
KEEL ecoli-0-3-4-6_vs_5	0.8596	0.8452	0.8462	0.8704	0.8466
KEEL ecoli-0-3-4-7_vs_5-6	0.8506	0.8548	0.8570	0.7867	0.8169
KEEL ecoli-0-3-4_vs_5	0.7942	0.8131	0.8464	0.8202	0.8424
KEEL ecoli-0-4-6_vs_5	0.8150	0.8337	0.8244	0.8257	0.8636
KEEL ecoli-0-6-7_vs_3-5	0.8358	0.8389	0.8425	0.8277	0.8429
KEEL ecoli-0-6-7_vs_5	0.8969	0.8956	0.9017	0.9003	0.8832
KEEL ecoli-0_vs_1	0.9820	0.9780	0.9799	0.9724	0.9773
KEEL ecoli1	0.8693	0.8714	0.8707	0.8627	0.8695
KEEL ecoli2	0.8812	0.8773	0.8789	0.8806	0.8980
KEEL ecoli3	0.8086	0.8232	0.8176	0.7995	0.8374
KEEL ecoli4	0.8020	0.8459	0.8381	0.8685	0.8587
KEEL glass-0-1-2-3_vs_4-5	0.8849	0.9134	0.8957	0.9064	0.9293
KEEL glass-0-1-4-6_vs_2	0.5652	0.5426	0.5600	0.5444	0.5697
KEEL glass-0-1-5_vs_2	0.5817	0.5768	0.5775	0.5323	0.5131
KEEL glass-0-1-6_vs_2	0.4431	0.4678	0.4901	0.4142	0.5413
KEEL glass-0-1-6_vs_5	0.9227	0.9383	0.9379	0.8039	0.8127
KEEL glass-0-4_vs_5	0.9939	0.9817	0.9939	0.9728	0.8905
KEEL glass-0-6_vs_5	0.9485	0.9619	0.9485	0.9166	0.8488
KEEL glass0	0.7794	0.7894	0.7840	0.7582	0.7742
KEEL glass1	0.7057	0.7266	0.7217	0.7050	0.7248
KEEL glass2	0.6042	0.5944	0.5788	0.5532	0.6063
KEEL glass4	0.7379	0.7589	0.7264	0.7392	0.7445
KEEL glass5	0.9454	0.9459	0.9453	0.7968	0.7672
KEEL glass6	0.9070	0.9022	0.9080	0.9127	0.9002
KEEL haberman	0.6265	0.6398	0.6048	0.6283	0.6274
KEEL iris0	0.9816	0.9878	0.9939	0.9959	1.0000
KEEL led7digit-0-2-4-5-6-	0.9025	0.8992	0.9051	0.8802	0.8778
KEEL new-thyroid1	0.9332	0.9305	0.9239	0.9489	0.9454
KEEL new-thyroid2	0.9481	0.9571	0.9452	0.9409	0.9650
KEEL page-blocks-1-3_vs_4	0.9634	0.9592	0.9634	0.9183	0.9547
KEEL pima	0.7349	0.7355	0.7226	0.7240	0.7384
KEEL shuttle-c0-vs-c4	1.0000	0.9967	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9816	0.9027	0.8946
KEEL vehicle0	0.9150	0.9258	0.9258	0.9210	0.9279
KEEL vehicle1	0.7301	0.7347	0.7290	0.7256	0.7813
KEEL vehicle2	0.9508	0.9705	0.9565	0.9705	0.9832
KEEL vehicle3	0.7218	0.7253	0.7134	0.7253	0.7301
KEEL vowel0	0.9575	0.9563	0.9698	0.9329	0.9518
KEEL wisconsin	0.9549	0.9575	0.9555	0.9472	0.9697
KEEL yeast-0-2-5-6_vs_3-7	0.7574	0.7608	0.7632	0.7456	0.7478
KEEL yeast-0-2-5-7-9_vs_3	0.8978	0.8983	0.8978	0.8727	0.8729
KEEL yeast-0-3-5-9_vs_7-8	0.6212	0.6018	0.6230	0.6314	0.6079
KEEL yeast-0-5-6-7-9_vs_4	0.7308	0.7346	0.7265	0.7240	0.7344
KEEL yeast-1-2-8-9_vs_7	0.5713	0.5365	0.5470	0.5117	0.5993
KEEL yeast-1-4-5-8_vs_7	0.4955	0.5024	0.4916	0.4550	0.5080
KEEL yeast-1_vs_7	0.5953	0.6331	0.5876	0.5754	0.6621
KEEL yeast-2_vs_4	0.8933	0.9025	0.8974	0.9006	0.9013
KEEL yeast-2_vs_8	0.7117	0.7400	0.7141	0.7096	0.5723
KEEL yeast1	0.6988	0.7056	0.7010	0.6959	0.7099
KEEL yeast3	0.9148	0.9171	0.9119	0.9081	0.8953
KEEL yeast4	0.7564	0.7669	0.7501	0.7372	0.7746
KEEL yeast5	0.9269	0.9321	0.9468	0.8817	0.9022
KEEL yeast6	0.7510	0.7748	0.7667	0.7507	0.7907

Table 9: G-mean for E-SM ensembles, HDDT and KEEL datasets.

Dataset	E-RUS	O+ E-RUS	DN+ E-RUS	RFW+ E-RUS	RF+ E-RUS
HDDT PhosS	0.7564	0.7681	0.7578	0.7685	0.7667
HDDT boundary	0.7170	0.7339	0.7196	0.7443	0.7315
HDDT breast-y	0.6603	0.6753	0.6751	0.6715	0.6808
HDDT cam	0.7704	0.7853	0.7732	0.7948	0.7990
HDDT compustat	0.8813	0.8904	0.8970	0.8856	0.8939
HDDT covtype	0.9899	0.9912	0.9911	0.9908	0.9923
HDDT credit-g	0.7424	0.7637	0.7546	0.7662	0.7803
HDDT estate	0.6458	0.6491	0.6567	0.6468	0.6566
HDDT german-numer	0.7658	0.7708	0.7695	0.7723	0.7860
HDDT heart-v	0.6661	0.6811	0.6850	0.6771	0.7012
HDDT hypo	0.9856	0.9891	0.9874	0.9914	0.9935
HDDT ism	0.9333	0.9418	0.9424	0.9402	0.9454
HDDT letter	0.9984	0.9992	0.9989	0.9991	0.9992
HDDT oil	0.9082	0.9235	0.9112	0.9084	0.9170
HDDT optdigits	0.9970	0.9992	0.9994	0.9997	0.9996
HDDT page	0.9902	0.9907	0.9908	0.9906	0.9915
HDDT pendigits	0.9985	0.9997	0.9995	0.9997	0.9998
HDDT phoneme	0.9255	0.9333	0.9392	0.9331	0.9344
HDDT satimage	0.9475	0.9501	0.9502	0.9508	0.9507
HDDT segment	0.9969	0.9994	0.9995	0.9995	0.9999
KEEL abalone19	0.7781	0.7744	0.7828	0.7851	0.8511
KEEL abalone9-18	0.7632	0.7740	0.7857	0.7748	0.9117
KEEL cleveland-0_vs_4	0.9034	0.9560	0.9471	0.9310	0.9332
KEEL ecoli-0-1-3-7_vs_2-6	0.9392	0.9573	0.9495	0.9598	0.9470
KEEL ecoli-0-1-4-6_vs_5	0.9485	0.9625	0.9738	0.9577	0.9642
KEEL ecoli-0-1-4-7_vs_2-3	0.9143	0.9285	0.9298	0.9300	0.9253
KEEL ecoli-0-1-4-7_vs_5-6	0.9253	0.9536	0.9625	0.9438	0.9604
KEEL ecoli-0-1_vs_2-3-5	0.9308	0.9489	0.9527	0.9361	0.9516
KEEL ecoli-0-1_vs_5	0.9422	0.9685	0.9709	0.9667	0.9700
KEEL ecoli-0-2-3-4_vs_5	0.9657	0.9744	0.9777	0.9728	0.9679
KEEL ecoli-0-2-6-7_vs_3-5	0.9191	0.9309	0.9305	0.9261	0.9309
KEEL ecoli-0-3-4-6_vs_5	0.9353	0.9604	0.9651	0.9676	0.9647
KEEL ecoli-0-3-4-7_vs_5-6	0.9354	0.9538	0.9592	0.9458	0.9472
KEEL ecoli-0-3-4_vs_5	0.9458	0.9624	0.9661	0.9644	0.9648
KEEL ecoli-0-4-6_vs_5	0.9595	0.9690	0.9710	0.9731	0.9607
KEEL ecoli-0-6-7_vs_3-5	0.9219	0.9396	0.9422	0.9290	0.9325
KEEL ecoli-0-6-7_vs_5	0.9572	0.9610	0.9617	0.9638	0.9531
KEEL ecoli-0_vs_1	0.9861	0.9939	0.9932	0.9902	0.9963
KEEL ecoli1	0.9555	0.9567	0.9604	0.9569	0.9562
KEEL ecoli2	0.9396	0.9516	0.9586	0.9478	0.9502
KEEL ecoli3	0.9362	0.9412	0.9398	0.9360	0.9434
KEEL ecoli4	0.9599	0.9839	0.9875	0.9816	0.9918
KEEL glass-0-1-2-3_vs_4-5	0.9514	0.9827	0.9760	0.9703	0.9815
KEEL glass-0-1-4-6_vs_2	0.7127	0.7222	0.7707	0.7030	0.8093
KEEL glass-0-1-5_vs_2	0.6887	0.6810	0.7463	0.6882	0.8064
KEEL glass-0-1-6_vs_2	0.6685	0.6989	0.7535	0.6917	0.8272
KEEL glass-0-1-6_vs_5	0.9780	0.9861	0.9923	0.9787	0.9594
KEEL glass-0-4_vs_5	0.9940	0.9985	0.9926	1.0000	0.9951
KEEL glass-0-6_vs_5	0.9775	0.9921	0.9859	0.9724	0.9466
KEEL glass0	0.8563	0.8801	0.8737	0.8691	0.8883
KEEL glass1	0.8023	0.8344	0.8500	0.8130	0.8425
KEEL glass2	0.7360	0.7218	0.8040	0.7275	0.8461
KEEL glass4	0.9090	0.9490	0.9503	0.9185	0.9628
KEEL glass5	0.9737	0.9825	0.9798	0.9758	0.9431
KEEL glass6	0.9547	0.9674	0.9609	0.9522	0.9624
KEEL haberman	0.7047	0.7134	0.6986	0.7022	0.6994
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9545	0.9607	0.9588	0.9624	0.9649
KEEL new-thyroid1	0.9932	0.9950	0.9952	0.9952	0.9992
KEEL new-thyroid2	0.9928	0.9958	0.9967	0.9952	0.9990
KEEL page-blocks-1-3_vs_4	0.9993	0.9982	0.9995	0.9973	0.9947
KEEL pima	0.8114	0.8204	0.8147	0.8144	0.8324
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9885	0.9908	0.9893	0.9908	0.9956
KEEL vehicle1	0.8453	0.8517	0.8452	0.8498	0.8827
KEEL vehicle2	0.9930	0.9966	0.9940	0.9961	0.9975
KEEL vehicle3	0.8434	0.8501	0.8416	0.8466	0.8656
KEEL vowel0	0.9894	0.9913	0.9924	0.9932	0.9980
KEEL wisconsin	0.9903	0.9927	0.9934	0.9922	0.9934
KEEL yeast-0-2-5-6_vs_3-7	0.8568	0.8591	0.8602	0.8568	0.8519
KEEL yeast-0-2-5-7-9_vs_3	0.9433	0.9429	0.9464	0.9457	0.9372
KEEL yeast-0-3-5-9_vs_7-8	0.7677	0.7642	0.7710	0.7692	0.7656
KEEL yeast-0-5-6-7-9_vs_4	0.8896	0.8941	0.8957	0.8877	0.8823
KEEL yeast-1-2-8-9_vs_7	0.7706	0.7683	0.7901	0.7707	0.7918
KEEL yeast-1-4-5-8_vs_7	0.6748	0.6901	0.6904	0.6774	0.6935
KEEL yeast-1_vs_7	0.8083	0.8234	0.8266	0.8182	0.8395
KEEL yeast-2_vs_4	0.9792	0.9797	0.9817	0.9783	0.9760
KEEL yeast-2_vs_8	0.7888	0.8069	0.7994	0.7945	0.7808
KEEL yeast1	0.7933	0.8015	0.8013	0.7973	0.8103
KEEL yeast3	0.9723	0.9735	0.9733	0.9725	0.9762
KEEL yeast4	0.9321	0.9333	0.9373	0.9316	0.9231
KEEL yeast5	0.9915	0.9904	0.9923	0.9916	0.9893
KEEL yeast6	0.9297	0.9318	0.9318	0.9337	0.9346

Table 10: AUC for E-RUS ensembles, HDDT and KEEL datasets.

Table 11: F-measure for E-RUS ensembles, HDDT and KEEL datasets.

Dataset	E-RUS	O+ E-RUS	DN+ E-RUS	RFW+ E-RUS	RF+ E-RUS
HDDT PhosS	0.1882	0.2057	0.1909	0.1834	0.2049
HDDT boundary	0.1096	0.1200	0.1113	0.1257	0.1220
HDDT breast-y	0.4803	0.4929	0.4933	0.4849	0.5064
HDDT cam	0.2053	0.2138	0.2062	0.2150	0.2182
HDDT compustat	0.2106	0.2206	0.2270	0.2185	0.2268
HDDT covtype	0.6947	0.7131	0.7123	0.7215	0.7282
HDDT credit-g	0.5595	0.5746	0.5683	0.5774	0.5955
HDDT estate	0.2727	0.2753	0.2740	0.2738	0.2787
HDDT german-numer	0.5886	0.5884	0.5873	0.5922	0.6010
HDDT heart-v	0.4582	0.4518	0.4653	0.4595	0.4908
HDDT hypo	0.7209	0.7213	0.7197	0.7357	0.7271
HDDT ism	0.3274	0.3305	0.3369	0.3320	0.3736
HDDT letter	0.7767	0.8319	0.8053	0.8753	0.8630
HDDT oil	0.2647	0.2817	0.2680	0.2694	0.2996
HDDT optdigits	0.9462	0.9614	0.9647	0.9769	0.9807
HDDT page	0.7834	0.7777	0.7799	0.7760	0.7763
HDDT pendigits	0.9338	0.9645	0.9535	0.9687	0.9733
HDDT phoneme	0.7570	0.7675	0.7795	0.7703	0.7550
HDDT satimage	0.5394	0.5444	0.5443	0.5493	0.5482
HDDT segment	0.9405	0.9533	0.9487	0.9682	0.9918
KEEL abalone19	0.0291	0.0299	0.0319	0.0300	0.0445
KEEL abalone9-18	0.2228	0.2365	0.2434	0.2310	0.3523
KEEL cleveland-0_vs_4	0.3763	0.5154	0.5078	0.4471	0.5341
KEEL ecoli-0-1-3-7_vs_2-6	0.1629	0.1980	0.2433	0.1883	0.1892
KEEL ecoli-0-1-4-6_vs_5	0.4939	0.5627	0.6543	0.5212	0.6198
KEEL ecoli-0-1-4-7_vs_2-3	0.4754	0.5004	0.5469	0.5167	0.5146
KEEL ecoli-0-1-4-7_vs_5-6	0.4927	0.5453	0.5808	0.5303	0.5605
KEEL ecoli-0-1_vs_2-3-5	0.5595	0.5965	0.6414	0.5797	0.6610
KEEL ecoli-0-1_vs_5	0.5206	0.6178	0.6945	0.5690	0.6453
KEEL ecoli-0-2-3-4_vs_5	0.5828	0.6459	0.7091	0.5971	0.7439
KEEL ecoli-0-2-6-7_vs_3-5	0.5944	0.6107	0.6105	0.5999	0.5770
KEEL ecoli-0-3-4-6_vs_5	0.5481	0.5856	0.6607	0.5796	0.6987
KEEL ecoli-0-3-4-7_vs_5-6	0.5509	0.6101	0.6402	0.5894	0.5875
KEEL ecoli-0-3-4_vs_5	0.5867	0.6719	0.7268	0.6166	0.7568
KEEL ecoli-0-4-6_vs_5	0.5407	0.5951	0.6778	0.6042	0.6723
KEEL ecoli-0-6-7_vs_3-5	0.6105	0.6338	0.6081	0.6131	0.6219
KEEL ecoli-0-6-7_vs_5	0.6407	0.6523	0.6634	0.6531	0.6176
KEEL ecoli-0_vs_1	0.9570	0.9641	0.9728	0.9539	0.9611
KEEL ecoli1	0.7798	0.7634	0.7792	0.7736	0.7579
KEEL ecoli2	0.6753	0.7208	0.7230	0.7089	0.7910
KEEL ecoli3	0.5410	0.5629	0.5620	0.5455	0.5710
KEEL ecoli4	0.5060	0.5805	0.6056	0.5316	0.7155

Dataset	E-RUS	O+ E-RUS	DN+ E-RUS	RFW+ E-RUS	RF+ E-RUS
KEEL glass-0-1-2-3_vs_4-5	0.8153	0.8180	0.8233	0.8251	0.8622
KEEL glass-0-1-4-6_vs_2	0.2220	0.2276	0.2462	0.2259	0.2844
KEEL glass-0-1-5_vs_2	0.2335	0.2224	0.2856	0.2306	0.3083
KEEL glass-0-1-6_vs_2	0.2044	0.2236	0.2571	0.2140	0.3133
KEEL glass-0-1-6_vs_5	0.4820	0.4820	0.3635	0.4455	0.3340
KEEL glass-0-4_vs_5	0.9505	0.9505	0.7100	0.9505	0.7652
KEEL glass-0-6_vs_5	0.5421	0.5283	0.6883	0.5394	0.4328
KEEL glass0	0.7026	0.7131	0.7150	0.7042	0.7118
KEEL glass1	0.6546	0.6774	0.6897	0.6630	0.6746
KEEL glass2	0.2185	0.2209	0.2691	0.2198	0.3030
KEEL glass4	0.3621	0.4618	0.5336	0.3668	0.4778
KEEL glass5	0.4689	0.4607	0.3197	0.4549	0.2787
KEEL glass6	0.7383	0.7669	0.7803	0.7707	0.7657
KEEL haberman	0.4899	0.4987	0.4951	0.4890	0.4961
KEEL iris0	0.9813	0.9855	1.0000	0.9917	1.0000
KEEL led7digit-0-2-4-5-6-	0.5540	0.5718	0.5487	0.6010	0.5759
KEEL new-thyroid1	0.8144	0.8934	0.8714	0.8880	0.9698
KEEL new-thyroid2	0.8351	0.8625	0.8773	0.8820	0.9571
KEEL page-blocks-1-3_vs_4	0.4692	0.4898	0.6330	0.4974	0.5471
KEEL pima	0.6629	0.6744	0.6641	0.6651	0.6750
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8500	0.9800	0.9069	1.0000	0.9714
KEEL vehicle0	0.8670	0.8661	0.8627	0.8648	0.9090
KEEL vehicle1	0.6347	0.6418	0.6368	0.6319	0.6761
KEEL vehicle2	0.9191	0.9356	0.9137	0.9309	0.9554
KEEL vehicle3	0.6158	0.6291	0.6202	0.6216	0.6442
KEEL vowel0	0.7772	0.7971	0.7965	0.8082	0.7762
KEEL wisconsin	0.9463	0.9575	0.9616	0.9611	0.9632
KEEL yeast-0-2-5-6_vs_3-7	0.5559	0.5524	0.5198	0.5476	0.5552
KEEL yeast-0-2-5-7-9_vs_3	0.7175	0.7302	0.7192	0.7339	0.7340
KEEL yeast-0-3-5-9_vs_7-8	0.3355	0.3309	0.3410	0.3424	0.3017
KEEL yeast-0-5-6-7-9_vs_4	0.4356	0.4557	0.4512	0.4462	0.4407
KEEL yeast-1-2-8-9_vs_7	0.1322	0.1320	0.1398	0.1317	0.1376
KEEL yeast-1-4-5-8_vs_7	0.1237	0.1281	0.1238	0.1205	0.1280
KEEL yeast-1_vs_7	0.2507	0.2732	0.2713	0.2597	0.3037
KEEL yeast-2_vs_4	0.6845	0.7057	0.6939	0.6909	0.6940
KEEL yeast-2_vs_8	0.2539	0.2485	0.3066	0.2541	0.2062
KEEL yeast1	0.5891	0.5999	0.6035	0.5963	0.6060
KEEL yeast3	0.7474	0.7507	0.7403	0.7480	0.7244
KEEL yeast4	0.2199	0.2301	0.2384	0.2243	0.2512
KEEL yeast5	0.4475	0.4415	0.4503	0.4770	0.4745
KEEL yeast6	0.2270	0.2247	0.2297	0.2301	0.2559

Table 12: G-mean for E-RUS ensembles, HDDT and KEEL datasets.

Dataset	E-RUS	O+ E-RUS	DN+ E-RUS	RFW+ E-RUS	RF+ E-RUS	Dataset	E-RUS	O+ E-RUS	DN+ E-RUS	RFW+ E-RUS	RF+ E-RUS
HDDT PhosS	0.6961	0.7118	0.6985	0.6931	0.7100	KEEL glass-0-1-2-3_vs_4-5	0.9067	0.9054	0.9099	0.9112	0.9357
HDDT boundary	0.6470	0.6723	0.6515	0.6806	0.6695	KEEL glass-0-1-4-6_vs_2	0.6347	0.6389	0.6757	0.6383	0.7149
HDDT breast-y	0.6081	0.6181	0.6205	0.6100	0.6290	KEEL glass-0-1-5_vs_2	0.5980	0.5832	0.6759	0.5920	0.7001
HDDT cam	0.7025	0.7126	0.7030	0.7183	0.7218	KEEL glass-0-1-6_vs_2	0.5863	0.6174	0.6687	0.6032	0.7436
HDDT compustat	0.8043	0.8118	0.8182	0.8104	0.8208	KEEL glass-0-1-6_vs_5	0.9410	0.9410	0.8968	0.9297	0.8799
HDDT covtype	0.9505	0.9550	0.9542	0.9556	0.9593	KEEL glass-0-4_vs_5	0.9939	0.9939	0.9460	0.9939	0.9573
HDDT credit-g	0.6746	0.6894	0.6830	0.6937	0.7092	KEEL glass-0-6_vs_5	0.9142	0.8871	0.9289	0.9131	0.8433
HDDT estate	0.6068	0.6112	0.6109	0.6082	0.6138	KEEL glass0	0.7804	0.7905	0.7924	0.7820	0.7883
HDDT german-numer	0.7019	0.7020	0.7007	0.7063	0.7134	KEEL glass1	0.7268	0.7459	0.7571	0.7328	0.7414
HDDT heart-v	0.6190	0.6139	0.6268	0.6206	0.6499	KEEL glass2	0.6357	0.6416	0.7173	0.6393	0.7508
HDDT hypo	0.9620	0.9622	0.9620	0.9684	0.9689	KEEL glass4	0.8244	0.8842	0.8772	0.8270	0.8880
HDDT ism	0.8895	0.8946	0.8967	0.8928	0.8994	KEEL glass5	0.9473	0.9463	0.8997	0.9453	0.8404
HDDT letter	0.9797	0.9863	0.9823	0.9864	0.9851	KEEL glass6	0.8976	0.9057	0.9078	0.9088	0.9027
HDDT oil	0.8146	0.8313	0.8195	0.8168	0.8275	KEEL haberman	0.6400	0.6489	0.6457	0.6383	0.6452
HDDT optdigits	0.9874	0.9894	0.9896	0.9931	0.9929	KEEL iris0	0.9816	0.9857	1.0000	0.9918	1.0000
HDDT page	0.9549	0.9558	0.9559	0.9565	0.9564	KEEL led7digit-0-2-4-5-6-	0.8658	0.8763	0.8717	0.8779	0.8782
HDDT pendigits	0.9813	0.9905	0.9881	0.9903	0.9940	KEEL new-thyroid1	0.9324	0.9567	0.9468	0.9506	0.9939
HDDT phoneme	0.8495	0.8579	0.8655	0.8595	0.8499	KEEL new-thyroid2	0.9401	0.9533	0.9565	0.9492	0.9910
HDDT satimage	0.8726	0.8767	0.8751	0.8790	0.8799	KEEL page-blocks-1-3_vs_4	0.9230	0.9270	0.9578	0.9318	0.9440
HDDT segment	0.9825	0.9851	0.9850	0.9883	0.9933	KEEL pima	0.7323	0.7444	0.7362	0.7354	0.7468
KEEL abalone19	0.6893	0.6976	0.7092	0.7002	0.7828	KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL abalone9-18	0.6956	0.7190	0.7216	0.7052	0.8148	KEEL shuttle-c2-vs-c4	0.8577	0.9816	0.9917	1.0000	0.9984
KEEL cleveland-0_vs_4	0.7775	0.8703	0.8684	0.8215	0.8410	KEEL vehicle0	0.9432	0.9443	0.9425	0.9430	0.9671
KEEL ecoli-0-1-3-7_vs_2-6	0.8042	0.8222	0.8203	0.8082	0.8498	KEEL vehicle1	0.7787	0.7845	0.7797	0.7761	0.8144
KEEL ecoli-0-1-4-6_vs_5	0.8499	0.8722	0.8978	0.8519	0.8819	KEEL vehicle2	0.9614	0.9715	0.9602	0.9696	0.9794
KEEL ecoli-0-1-4-7_vs_2-3	0.8227	0.8324	0.8473	0.8455	0.8437	KEEL vehicle3	0.7678	0.7788	0.7702	0.7726	0.7924
KEEL ecoli-0-1-4-7_vs_5-6	0.8400	0.8611	0.8853	0.8628	0.8791	KEEL vowel0	0.9512	0.9560	0.9561	0.9577	0.9705
KEEL ecoli-0-1_vs_2-3-5	0.8547	0.8709	0.8781	0.8679	0.8791	KEEL wisconsin	0.9624	0.9713	0.9749	0.9741	0.9778
KEEL ecoli-0-1_vs_5	0.8462	0.8842	0.9031	0.8733	0.8818	KEEL yeast-0-2-5-6_vs_3-7	0.8012	0.8004	0.8028	0.7965	0.7927
KEEL ecoli-0-2-3-4_vs_5	0.8683	0.8998	0.8918	0.8804	0.8983	KEEL yeast-0-2-5-7-9_vs_3	0.9084	0.9108	0.9102	0.9079	0.8960
KEEL ecoli-0-2-6-7_vs_3-5	0.8470	0.8554	0.8439	0.8473	0.8219	KEEL yeast-0-3-5-9_vs_7-8	0.6968	0.6913	0.7058	0.6994	0.6675
KEEL ecoli-0-3-4-6_vs_5	0.8426	0.8429	0.8643	0.8678	0.8757	KEEL yeast-0-5-6-7-9_vs_4	0.7945	0.8099	0.8015	0.8026	0.7871
KEEL ecoli-0-3-4-7_vs_5-6	0.8327	0.8781	0.8865	0.8626	0.8668	KEEL yeast-1-2-8-9_vs_7	0.6949	0.7018	0.7242	0.6965	0.7124
KEEL ecoli-0-3-4_vs_5	0.8385	0.8838	0.8805	0.8666	0.8936	KEEL yeast-1-4-5-8_vs_7	0.6231	0.6324	0.6241	0.6114	0.6276
KEEL ecoli-0-4-6_vs_5	0.8432	0.8600	0.8707	0.8802	0.8702	KEEL yeast-1_vs_7	0.7234	0.7519	0.7506	0.7327	0.7797
KEEL ecoli-0-6-7_vs_3-5	0.8501	0.8622	0.8445	0.8504	0.8413	KEEL yeast-2_vs_4	0.9300	0.9350	0.9338	0.9332	0.9096
KEEL ecoli-0-6-7_vs_5	0.8943	0.9016	0.8871	0.8973	0.8731	KEEL yeast-2_vs_8	0.6936	0.7036	0.7127	0.6982	0.6871
KEEL ecoli-0_vs_1	0.9691	0.9744	0.9792	0.9672	0.9704	KEEL yeast1	0.7092	0.7187	0.7231	0.7155	0.7245
KEEL ecoli1	0.8979	0.8863	0.8963	0.8920	0.8820	KEEL yeast3	0.9310	0.9323	0.9305	0.9316	0.9288
KEEL ecoli2	0.8726	0.8853	0.8884	0.8809	0.9175	KEEL yeast4	0.8450	0.8559	0.8571	0.8497	0.8519
KEEL ecoli3	0.8745	0.8864	0.8805	0.8753	0.8842	KEEL yeast5	0.9594	0.9605	0.9618	0.9597	0.9654
KEEL ecoli4	0.8753	0.9169	0.9156	0.9063	0.9361	KEEL yeast6	0.8598	0.8647	0.8620	0.8598	0.8669

Table 13: AUC for E-RB ensembles, HDDT and KEEL datasets.

Dataset	E-RB	O+ E-RB	DN+ E-RB	RFW+ E-RB	RF+ E-RB	Dataset	E-RB	O+ E-RB	DN+ E-RB	RFW+ E-RB	RF+ E-RB
HDDT PhosS	0.7207	0.7415	0.7216	0.7412	0.7393	KEEL glass-0-1-2-3_vs_4-5	0.9719	0.9783	0.9792	0.9738	0.9843
HDDT boundary	0.6799	0.6891	0.6814	0.7269	0.7026	KEEL glass-0-1-4-6_vs_2	0.7576	0.7465	0.7638	0.7631	0.8192
HDDT breast-y	0.6448	0.6596	0.6588	0.6483	0.6529	KEEL glass-0-1-5_vs_2	0.7304	0.7216	0.7424	0.7402	0.8134
HDDT cam	0.7276	0.7441	0.7336	0.7650	0.7895	KEEL glass-0-1-6_vs_2	0.7245	0.7372	0.7437	0.7528	0.8279
HDDT compustat	0.9074	0.9163	0.9141	0.9158	0.9218	KEEL glass-0-1-6_vs_5	0.9948	0.9955	0.9965	0.9943	0.9880
HDDT covtype	0.9933	0.9939	0.9938	0.9938	0.9950	KEEL glass-0-4_vs_5	0.9971	0.9990	1.0000	0.9995	0.9976
HDDT credit-g	0.7506	0.7695	0.7588	0.7713	0.7833	KEEL glass-0-6_vs_5	0.9851	0.9982	0.9984	0.9983	0.9947
HDDT estate	0.6239	0.6276	0.6228	0.6259	0.6434	KEEL glass0	0.8613	0.8749	0.8811	0.8722	0.8940
HDDT german-numer	0.7737	0.7768	0.7750	0.7767	0.7862	KEEL glass1	0.8179	0.8470	0.8578	0.8223	0.8348
HDDT heart-v	0.6815	0.7001	0.6998	0.7006	0.7081	KEEL glass2	0.8182	0.8027	0.8185	0.8126	0.8687
HDDT hypo	0.9902	0.9918	0.9914	0.9917	0.9934	KEEL glass4	0.9257	0.9659	0.9570	0.9474	0.9724
HDDT ism	0.9407	0.9413	0.9425	0.9418	0.9438	KEEL glass5	0.9911	0.9940	0.9959	0.9937	0.9935
HDDT letter	0.9990	0.9995	0.9993	0.9996	0.9998	KEEL glass6	0.9616	0.9659	0.9614	0.9559	0.9737
HDDT oil	0.9163	0.9260	0.9202	0.9237	0.9282	KEEL haberman	0.7072	0.7070	0.6909	0.7111	0.7019
HDDT optdigits	0.9977	0.9994	0.9996	0.9998	0.9997	KEEL iris0	0.9999	1.0000	1.0000	1.0000	1.0000
HDDT page	0.9918	0.9921	0.9920	0.9922	0.9923	KEEL led7digit-0-2-4-5-6-	0.9584	0.9652	0.9620	0.9633	0.9648
HDDT pendigits	0.9995	0.9999	0.9998	0.9998	0.9999	KEEL new-thyroid1	0.9938	0.9952	0.9954	0.9964	0.9994
HDDT phoneme	0.9336	0.9392	0.9423	0.9391	0.9409	KEEL new-thyroid2	0.9944	0.9964	0.9962	0.9968	0.9993
HDDT satimage	0.9509	0.9533	0.9540	0.9552	0.9581	KEEL page-blocks-1-3_vs_4	0.9996	0.9997	0.9997	0.9999	1.0000
HDDT segment	0.9985	0.9996	0.9996	0.9996	1.0000	KEEL pima	0.8176	0.8197	0.8189	0.8178	0.8287
KEEL abalone19	0.7410	0.7424	0.7552	0.7571	0.7754	KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL abalone9-18	0.7881	0.7894	0.7931	0.7987	0.8936	KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL cleveland-0_vs_4	0.9340	0.9571	0.9420	0.9548	0.9400	KEEL vehicle0	0.9886	0.9913	0.9900	0.9912	0.9966
KEEL ecoli-0-1-3-7_vs_2-6	0.9303	0.9173	0.9204	0.9413	0.9439	KEEL vehicle1	0.8471	0.8526	0.8469	0.8505	0.8819
KEEL ecoli-0-1-4-6_vs_5	0.9650	0.9766	0.9762	0.9822	0.9715	KEEL vehicle2	0.9937	0.9970	0.9948	0.9968	0.9983
KEEL ecoli-0-1-4-7_vs_2-3	0.9319	0.9396	0.9376	0.9409	0.9347	KEEL vehicle3	0.8455	0.8522	0.8458	0.8501	0.8696
KEEL ecoli-0-1-4-7_vs_5-6	0.9497	0.9625	0.9643	0.9587	0.9670	KEEL vowel0	0.9967	0.9964	0.9969	0.9973	0.9996
KEEL ecoli-0-1_vs_2-3-5	0.9522	0.9625	0.9575	0.9578	0.9605	KEEL wisconsin	0.9918	0.9931	0.9935	0.9930	0.9936
KEEL ecoli-0-1_vs_5	0.9574	0.9754	0.9711	0.9771	0.9808	KEEL yeast-0-2-5-6_vs_3-7	0.8463	0.8509	0.8483	0.8452	0.8553
KEEL ecoli-0-2-3-4_vs_5	0.9702	0.9766	0.9764	0.9804	0.9802	KEEL yeast-0-2-5-7-9_vs_3	0.9455	0.9459	0.9481	0.9476	0.9474
KEEL ecoli-0-2-6-7_vs_3-5	0.9279	0.9391	0.9356	0.9336	0.9394	KEEL yeast-0-3-5-9_vs_7-8	0.7577	0.7610	0.7632	0.7546	0.7607
KEEL ecoli-0-3-4-6_vs_5	0.9593	0.9753	0.9705	0.9807	0.9765	KEEL yeast-0-5-6-7-9_vs_4	0.8922	0.8959	0.8977	0.8913	0.8912
KEEL ecoli-0-3-4-7_vs_5-6	0.9474	0.9597	0.9564	0.9508	0.9583	KEEL yeast-1-2-8-9_vs_7	0.7337	0.7552	0.7412	0.7448	0.7690
KEEL ecoli-0-3-4_vs_5	0.9590	0.9708	0.9676	0.9786	0.9684	KEEL yeast-1-4-5-8_vs_7	0.6437	0.6638	0.6607	0.6497	0.6768
KEEL ecoli-0-4-6_vs_5	0.9662	0.9731	0.9759	0.9787	0.9717	KEEL yeast-1_vs_7	0.8122	0.8234	0.8185	0.8103	0.8157
KEEL ecoli-0-6-7_vs_3-5	0.9210	0.9434	0.9346	0.9386	0.9407	KEEL yeast-2_vs_4	0.9799	0.9822	0.9832	0.9814	0.9808
KEEL ecoli-0-6-7_vs_5	0.9578	0.9617	0.9588	0.9639	0.9601	KEEL yeast-2_vs_8	0.8196	0.8183	0.8116	0.8153	0.7671
KEEL ecoli-0_vs_1	0.9953	0.9950	0.9953	0.9953	0.9956	KEEL yeast1	0.7938	0.8021	0.8017	0.7979	0.8096
KEEL ecoli1	0.9550	0.9553	0.9569	0.9576	0.9584	KEEL yeast3	0.9740	0.9752	0.9749	0.9748	0.9769
KEEL ecoli2	0.9440	0.9531	0.9579	0.9566	0.9586	KEEL yeast4	0.9357	0.9383	0.9374	0.9347	0.9342
KEEL ecoli3	0.9419	0.9436	0.9429	0.9417	0.9477	KEEL yeast5	0.9900	0.9908	0.9907	0.9899	0.9920
KEEL ecoli4	0.9674	0.9832	0.9821	0.9812	0.9914	KEEL yeast6	0.9106	0.9214	0.9147	0.9182	0.9296

Table 14: F-measure for E-RB ensembles, HDDT and KEEL datasets.

Dataset	E-RB	O+ E-RB	DN+ E-RB	RFW+ E-RB	RF+ E-RB	Dataset	E-RB	O+ E-RB	DN+ E-RB	RFW+ E-RB	RF+ E-RB
HDDT PhosS	0.1786	0.1724	0.1800	0.1047	0.1456	KEEL glass-0-1-2-3_vs_4-5	0.8430	0.8386	0.8483	0.8463	0.8774
HDDT boundary	0.1410	0.1402	0.1490	0.0400	0.0574	KEEL glass-0-1-4-6_vs_2	0.2966	0.3380	0.3263	0.3041	0.3635
HDDT breast-y	0.4438	0.4580	0.4484	0.4465	0.4510	KEEL glass-0-1-5_vs_2	0.3164	0.3269	0.3335	0.2876	0.3571
HDDT cam	0.1930	0.1869	0.1889	0.1531	0.1781	KEEL glass-0-1-6_vs_2	0.2922	0.2339	0.3031	0.2542	0.3349
HDDT compustat	0.3412	0.3587	0.3574	0.3565	0.3489	KEEL glass-0-1-6_vs_5	0.8033	0.7902	0.8059	0.7557	0.7010
HDDT covtype	0.8511	0.8552	0.8565	0.8574	0.8433	KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.8807	0.9104
HDDT credit-g	0.5536	0.5734	0.5664	0.5625	0.5831	KEEL glass-0-6_vs_5	0.8672	0.9196	0.9078	0.8642	0.8472
HDDT estate	0.2463	0.2402	0.2331	0.2390	0.2574	KEEL glass0	0.7294	0.7305	0.7341	0.7217	0.7053
HDDT german-numer	0.5817	0.5820	0.5811	0.5783	0.5954	KEEL glass1	0.6471	0.6763	0.6893	0.6494	0.6476
HDDT heart-v	0.4307	0.4509	0.4319	0.4353	0.4320	KEEL glass2	0.2985	0.2835	0.2930	0.2671	0.3750
HDDT hypo	0.8733	0.8755	0.8784	0.8736	0.8631	KEEL glass4	0.4951	0.6072	0.5588	0.5944	0.6621
HDDT ism	0.5380	0.5500	0.5514	0.5683	0.5348	KEEL glass5	0.7606	0.7502	0.7546	0.7408	0.6751
HDDT letter	0.9579	0.9685	0.9659	0.9667	0.9771	KEEL glass6	0.8224	0.8372	0.8362	0.8352	0.8323
HDDT oil	0.4642	0.5039	0.4671	0.5194	0.5202	KEEL haberman	0.5004	0.4977	0.4865	0.4954	0.4907
HDDT optdigits	0.9786	0.9872	0.9859	0.9907	0.9913	KEEL iris0	0.9813	0.9813	1.0000	0.9875	1.0000
HDDT page	0.8490	0.8543	0.8511	0.8548	0.8426	KEEL led7digit-0-2-4-5-6-	0.7587	0.7698	0.7548	0.7711	0.7663
HDDT pendigits	0.9735	0.9833	0.9815	0.9832	0.9869	KEEL new-thyroid1	0.9138	0.9233	0.9233	0.9260	0.9744
HDDT phoneme	0.7819	0.7899	0.7973	0.7891	0.7813	KEEL new-thyroid2	0.9072	0.9310	0.9216	0.9369	0.9773
HDDT satimage	0.6361	0.6412	0.6453	0.6442	0.6406	KEEL page-blocks-1-3_vs_4	0.9518	0.9310	0.9448	0.9497	0.9255
HDDT segment	0.9735	0.9753	0.9753	0.9774	0.9911	KEEL pima	0.6710	0.6678	0.6650	0.6665	0.6672
KEEL abalone19	0.0510	0.0486	0.0529	0.0556	0.0502	KEEL shuttle-c0-vs-c4	1.0000	0.9983	1.0000	1.0000	0.9959
KEEL abalone9-18	0.2980	0.3158	0.3037	0.3169	0.4435	KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9800	0.9714
KEEL cleveland-0_vs_4	0.5596	0.6598	0.6320	0.5899	0.6225	KEEL vehicle0	0.8790	0.8976	0.8861	0.8920	0.9299
KEEL ecoli-0-1-3-7_vs_2-6	0.6321	0.6226	0.6321	0.6405	0.5215	KEEL vehicle1	0.6186	0.6362	0.6223	0.6278	0.6631
KEEL ecoli-0-1-4-6_vs_5	0.6916	0.7555	0.7473	0.7287	0.7531	KEEL vehicle2	0.9278	0.9439	0.9344	0.9449	0.9610
KEEL ecoli-0-1-4-7_vs_2-3	0.6377	0.6829	0.6956	0.6953	0.6850	KEEL vehicle3	0.6208	0.6204	0.6087	0.6234	0.6496
KEEL ecoli-0-1-4-7_vs_5-6	0.7243	0.7550	0.7303	0.7495	0.7631	KEEL vowel0	0.8720	0.8885	0.8739	0.8924	0.9488
KEEL ecoli-0-1_vs_2-3-5	0.6974	0.7105	0.7076	0.7093	0.7378	KEEL wisconsin	0.9497	0.9541	0.9605	0.9584	0.9658
KEEL ecoli-0-1_vs_5	0.6653	0.7432	0.7155	0.7235	0.8135	KEEL yeast-0-2-5-6_vs_3-7	0.5491	0.5705	0.5611	0.5715	0.5695
KEEL ecoli-0-2-3-4_vs_5	0.6828	0.7537	0.7689	0.7287	0.7857	KEEL yeast-0-2-5-7-9_vs_3	0.7465	0.7591	0.7570	0.7673	0.7704
KEEL ecoli-0-2-6-7_vs_3-5	0.7175	0.7214	0.7170	0.7137	0.6997	KEEL yeast-0-3-5-9_vs_7-8	0.3769	0.3963	0.3777	0.3779	0.3561
KEEL ecoli-0-3-4-6_vs_5	0.7200	0.7388	0.7442	0.7570	0.7576	KEEL yeast-0-5-6-7-9_vs_4	0.5130	0.5121	0.5181	0.5171	0.5187
KEEL ecoli-0-3-4-7_vs_5-6	0.7082	0.7623	0.7550	0.7360	0.7488	KEEL yeast-1-2-8-9_vs_7	0.1760	0.1828	0.1754	0.1771	0.1749
KEEL ecoli-0-3-4_vs_5	0.7170	0.7762	0.7665	0.7555	0.7666	KEEL yeast-1-4-5-8_vs_7	0.1527	0.1683	0.1743	0.1590	0.1523
KEEL ecoli-0-4-6_vs_5	0.7451	0.7423	0.7767	0.7587	0.7737	KEEL yeast-1_vs_7	0.3409	0.3566	0.3533	0.3304	0.3364
KEEL ecoli-0-6-7_vs_3-5	0.6828	0.6934	0.6822	0.6881	0.7063	KEEL yeast-2_vs_4	0.7258	0.7381	0.7359	0.7249	0.7440
KEEL ecoli-0-6-7_vs_5	0.7642	0.7817	0.7841	0.7739	0.7753	KEEL yeast-2_vs_8	0.4163	0.4452	0.4575	0.4536	0.3459
KEEL ecoli-0_vs_1	0.9765	0.9715	0.9765	0.9686	0.9673	KEEL yeast1	0.5889	0.5963	0.6106	0.5932	0.6087
KEEL ecoli1	0.7866	0.7788	0.7891	0.7800	0.7791	KEEL yeast3	0.7758	0.7831	0.7798	0.7764	0.7677
KEEL ecoli2	0.7861	0.8010	0.8176	0.8031	0.8426	KEEL yeast4	0.3415	0.3441	0.3501	0.3476	0.3436
KEEL ecoli3	0.6063	0.6311	0.6256	0.6273	0.6435	KEEL yeast5	0.7273	0.7289	0.7304	0.7265	0.6832
KEEL ecoli4	0.6496	0.7640	0.7338	0.7322	0.8433	KEEL yeast6	0.3768	0.3931	0.3973	0.4093	0.4472

Table 15: G-mean for E-RB ensembles, HDDT and KEEL datasets.

Dataset	E-RB	O+ E-RB	DN+ E-RB	RFW+ E-RB	RF+ E-RB
HDDT PhosS	0.3466	0.3284	0.3480	0.2402	0.2934
HDDT boundary	0.3541	0.3444	0.3609	0.1309	0.1717
HDDT breast-y	0.5820	0.5939	0.5859	0.5829	0.5880
HDDT cam	0.3726	0.3613	0.3659	0.3117	0.3457
HDDT compustat	0.7954	0.8054	0.7975	0.8005	0.8206
HDDT covtype	0.9575	0.9596	0.9588	0.9596	0.9658
HDDT credit-g	0.6725	0.6865	0.6814	0.6764	0.6940
HDDT estate	0.5366	0.5294	0.5182	0.5255	0.5655
HDDT german-numer	0.6959	0.6962	0.6956	0.6928	0.7084
HDDT heart-v	0.5863	0.6020	0.5839	0.5874	0.5809
HDDT hypo	0.9612	0.9614	0.9622	0.9619	0.9600
HDDT ism	0.8873	0.8864	0.8865	0.8863	0.8978
HDDT letter	0.9750	0.9779	0.9779	0.9735	0.9852
HDDT oil	0.7768	0.7841	0.7690	0.7635	0.7915
HDDT optdigits	0.9901	0.9921	0.9918	0.9932	0.9937
HDDT page	0.9569	0.9614	0.9589	0.9610	0.9599
HDDT pendigits	0.9860	0.9911	0.9906	0.9901	0.9941
HDDT phoneme	0.8624	0.8683	0.8709	0.8677	0.8638
HDDT satimage	0.8502	0.8547	0.8567	0.8546	0.8747
HDDT segment	0.9874	0.9877	0.9882	0.9881	0.9922
KEEL abalone19	0.4656	0.4480	0.4710	0.4492	0.5129
KEEL abalone9-18	0.6351	0.6537	0.6399	0.6430	0.7609
KEEL cleveland-0_vs_4	0.7240	0.7862	0.7657	0.6896	0.7525
KEEL ecoli-0-1-3-7_vs_2-6	0.8252	0.8245	0.8252	0.8130	0.8099
KEEL ecoli-0-1-4-6_vs_5	0.8449	0.8662	0.8651	0.8527	0.8595
KEEL ecoli-0-1-4-7_vs_2-3	0.8351	0.8527	0.8507	0.8546	0.8486
KEEL ecoli-0-1-4-7_vs_5-6	0.8640	0.8675	0.8614	0.8634	0.8835
KEEL ecoli-0-1_vs_2-3-5	0.8773	0.8798	0.8676	0.8714	0.8781
KEEL ecoli-0-1_vs_5	0.8272	0.8631	0.8490	0.8461	0.8806
KEEL ecoli-0-2-3-4_vs_5	0.8693	0.8867	0.8953	0.8838	0.8874
KEEL ecoli-0-2-6-7_vs_3-5	0.8576	0.8587	0.8582	0.8573	0.8470
KEEL ecoli-0-3-4-6_vs_5	0.8650	0.8784	0.8693	0.8858	0.8623
KEEL ecoli-0-3-4-7_vs_5-6	0.8613	0.8895	0.8844	0.8664	0.8698
KEEL ecoli-0-3-4_vs_5	0.8452	0.8792	0.8618	0.8549	0.8535
KEEL ecoli-0-4-6_vs_5	0.8817	0.8768	0.8920	0.8830	0.8722
KEEL ecoli-0-6-7_vs_3-5	0.8452	0.8471	0.8407	0.8460	0.8483
KEEL ecoli-0-6-7_vs_5	0.9037	0.9057	0.9066	0.9052	0.8819
KEEL ecoli-0_vs_1	0.9814	0.9786	0.9814	0.9752	0.9745
KEEL ecoli1	0.8934	0.8857	0.8927	0.8861	0.8885
KEEL ecoli2	0.8781	0.8865	0.8966	0.8833	0.9086
KEEL ecoli3	0.8541	0.8764	0.8659	0.8660	0.8817
KEEL ecoli4	0.8132	0.8933	0.8693	0.8636	0.9206
KEEL glass-0-1-2-3_vs_4-5	0.9155	0.9114	0.9187	0.9167	0.9404
KEEL glass-0-1-4-6_vs_2	0.5485	0.5737	0.5940	0.5531	0.6030
KEEL glass-0-1-5_vs_2	0.6071	0.6056	0.6220	0.5591	0.6229
KEEL glass-0-1-6_vs_2	0.5803	0.4718	0.5716	0.5102	0.5537
KEEL glass-0-1-6_vs_5	0.9867	0.9756	0.9867	0.9055	0.8042
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9301	0.9352
KEEL glass-0-6_vs_5	0.9451	0.9729	0.9509	0.9224	0.8728
KEEL glass0	0.8038	0.8033	0.8057	0.7963	0.7810
KEEL glass1	0.7197	0.7439	0.7524	0.7215	0.7191
KEEL glass2	0.6037	0.5737	0.5918	0.5249	0.6572
KEEL glass4	0.7457	0.8177	0.7839	0.7807	0.8412
KEEL glass5	0.9759	0.9749	0.9754	0.9157	0.8012
KEEL glass6	0.9136	0.9225	0.9220	0.9164	0.9181
KEEL haberman	0.6528	0.6508	0.6396	0.6485	0.6331
KEEL iris0	0.9816	0.9816	1.0000	0.9877	1.0000
KEEL led7digit-0-2-4-5-6-	0.8935	0.9027	0.8983	0.9023	0.9020
KEEL new-thyroid1	0.9472	0.9563	0.9563	0.9545	0.9879
KEEL new-thyroid2	0.9552	0.9608	0.9585	0.9623	0.9864
KEEL page-blocks-1-3_vs_4	0.9865	0.9916	0.9893	0.9793	0.9946
KEEL pima	0.7433	0.7403	0.7392	0.7397	0.7410
KEEL shuttle-c0-vs-c4	1.0000	0.9984	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9816	0.9984
KEEL vehicle0	0.9375	0.9517	0.9423	0.9475	0.9711
KEEL vehicle1	0.7591	0.7740	0.7596	0.7662	0.7969
KEEL vehicle2	0.9627	0.9709	0.9653	0.9721	0.9792
KEEL vehicle3	0.7662	0.7639	0.7494	0.7673	0.7908
KEEL vowel0	0.9613	0.9663	0.9636	0.9689	0.9905
KEEL wisconsin	0.9640	0.9672	0.9731	0.9710	0.9785
KEEL yeast-0-2-5-6_vs_3-7	0.7716	0.7841	0.7810	0.7775	0.7845
KEEL yeast-0-2-5-7-9_vs_3	0.8985	0.9045	0.9005	0.8963	0.8968
KEEL yeast-0-3-5-9_vs_7-8	0.6620	0.6708	0.6492	0.6465	0.6474
KEEL yeast-0-5-6-7-9_vs_4	0.7891	0.7866	0.7771	0.7780	0.7783
KEEL yeast-1-2-8-9_vs_7	0.6246	0.6315	0.6210	0.6084	0.6640
KEEL yeast-1-4-5-8_vs_7	0.5391	0.5450	0.5508	0.5244	0.5572
KEEL yeast-1_vs_7	0.6879	0.7110	0.7017	0.6712	0.7107
KEEL yeast-2_vs_4	0.9208	0.9197	0.9262	0.9203	0.8989
KEEL yeast-2_vs_8	0.7092	0.7279	0.7186	0.7122	0.6363
KEEL yeast1	0.7082	0.7154	0.7280	0.7123	0.7261
KEEL yeast3	0.9309	0.9338	0.9307	0.9296	0.9208
KEEL yeast4	0.8109	0.8064	0.8108	0.8052	0.7962
KEEL yeast5	0.9434	0.9460	0.9437	0.9365	0.9440
KEEL yeast6	0.7870	0.7961	0.7964	0.7869	0.8262

Table 16: AUC for Ba ensembles, HDDT and KEEL datasets.

Dataset	Ba	O+Ba	DN+Ba	RFW+Ba	RF+Ba
HDDT PhosS	0.7316	0.7417	0.7339	0.7551	0.7467
HDDT boundary	0.6414	0.6474	0.6376	0.6559	0.6580
HDDT breast-y	0.6644	0.6702	0.6732	0.6724	0.6766
HDDT cam	0.7313	0.7364	0.7344	0.7549	0.7468
HDDT compustat	0.9051	0.9134	0.9153	0.9064	0.9158
HDDT covtype	0.9927	0.9934	0.9932	0.9930	0.9944
HDDT credit-g	0.7574	0.7731	0.7657	0.7772	0.7857
HDDT estate	0.6506	0.6526	0.6517	0.6494	0.6608
HDDT german-numer	0.7780	0.7823	0.7802	0.7808	0.7883
HDDT heart-v	0.6863	0.7053	0.7015	0.7002	0.7077
HDDT hypo	0.9839	0.9840	0.9859	0.9897	0.9939
HDDT ism	0.9346	0.9406	0.9444	0.9429	0.9481
HDDT letter	0.9991	0.9996	0.9994	0.9998	0.9997
HDDT oil	0.9017	0.9227	0.9117	0.9057	0.9275
HDDT optdigits	0.9965	0.9996	0.9998	0.9997	0.9997
HDDT page	0.9914	0.9921	0.9918	0.9916	0.9917
HDDT pendigits	0.9991	0.9998	0.9998	0.9999	0.9999
HDDT phoneme	0.9381	0.9432	0.9433	0.9430	0.9455
HDDT satimage	0.9494	0.9526	0.9542	0.9537	0.9567
HDDT segment	0.9979	0.9994	0.9997	0.9993	0.9999
KEEL abalone19	0.7690	0.7608	0.7663	0.7576	0.8312
KEEL abalone9-18	0.7956	0.7985	0.8084	0.8037	0.9161
KEEL cleveland-0_vs_4	0.9603	0.9777	0.9713	0.9624	0.9672
KEEL ecoli-0-1-3-7_vs_2-6	0.8822	0.9377	0.9271	0.9108	0.9304
KEEL ecoli-0-1-4-6_vs_5	0.9676	0.9816	0.9842	0.9822	0.9815
KEEL ecoli-0-1-4-7_vs_2-3	0.9074	0.9255	0.9271	0.9177	0.9370
KEEL ecoli-0-1-4-7_vs_5-6	0.9362	0.9549	0.9650	0.9485	0.9695
KEEL ecoli-0-1_vs_2-3-5	0.9498	0.9611	0.9490	0.9516	0.9681
KEEL ecoli-0-1_vs_5	0.9725	0.9815	0.9810	0.9803	0.9864
KEEL ecoli-0-2-3-4_vs_5	0.9600	0.9787	0.9847	0.9785	0.9793
KEEL ecoli-0-2-6-7_vs_3-5	0.9193	0.9442	0.9346	0.9302	0.9433
KEEL ecoli-0-3-4-6_vs_5	0.9568	0.9810	0.9827	0.9806	0.9778
KEEL ecoli-0-3-4-7_vs_5-6	0.9248	0.9556	0.9494	0.9437	0.9632
KEEL ecoli-0-3-4_vs_5	0.9595	0.9807	0.9839	0.9848	0.9803
KEEL ecoli-0-4-6_vs_5	0.9695	0.9807	0.9834	0.9831	0.9830
KEEL ecoli-0-6-7_vs_3-5	0.9218	0.9489	0.9325	0.9438	0.9495
KEEL ecoli-0-6-7_vs_5	0.9237	0.9661	0.9617	0.9567	0.9622
KEEL ecoli-0_vs_1	0.9831	0.9949	0.9906	0.9874	0.9958
KEEL ecoli1	0.9530	0.9544	0.9576	0.9572	0.9579
KEEL ecoli2	0.9292	0.9563	0.9662	0.9512	0.9542
KEEL ecoli3	0.9184	0.9379	0.9347	0.9270	0.9451
KEEL ecoli4	0.9532	0.9792	0.9872	0.9796	0.9893

Dataset	Ba	O+Ba	DN+Ba	RFW+Ba	RF+Ba
KEEL glass-0-1-2-3_vs_4-5	0.9727	0.9789	0.9792	0.9749	0.9862
KEEL glass-0-1-4-6_vs_2	0.6921	0.6752	0.7108	0.6937	0.8182
KEEL glass-0-1-5_vs_2	0.6517	0.6389	0.7059	0.6421	0.7939
KEEL glass-0-1-6_vs_2	0.6874	0.6869	0.7315	0.6808	0.8141
KEEL glass-0-1-6_vs_5	0.9935	0.9947	0.9955	0.9925	0.9899
KEEL glass-0-4_vs_5	0.9998	0.9990	1.0000	1.0000	0.9957
KEEL glass-0-6_vs_5	0.9707	0.9949	0.9881	0.9770	0.9897
KEEL glass0	0.8639	0.8810	0.8825	0.8832	0.8908
KEEL glass1	0.8245	0.8525	0.8486	0.8352	0.8508
KEEL glass2	0.7043	0.6911	0.7818	0.7147	0.8099
KEEL glass4	0.9190	0.9642	0.9531	0.9405	0.9703
KEEL glass5	0.9891	0.9917	0.9935	0.9901	0.9936
KEEL glass6	0.9543	0.9727	0.9612	0.9625	0.9784
KEEL haberman	0.7092	0.7058	0.7009	0.7085	0.6939
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9608	0.9671	0.9674	0.9665	0.9645
KEEL new-thyroid1	0.9920	0.9960	0.9944	0.9962	0.9992
KEEL new-thyroid2	0.9903	0.9963	0.9945	0.9966	0.9992
KEEL page-blocks-1-3_vs_4	0.9992	0.9998	0.9995	0.9994	0.9991
KEEL pima	0.8196	0.8205	0.8197	0.8195	0.8287
KEEL shuttle-c0-vs-c4	0.9996	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9896	0.9916	0.9901	0.9922	0.9970
KEEL vehicle1	0.8457	0.8496	0.8485	0.8473	0.8794
KEEL vehicle2	0.9950	0.9974	0.9956	0.9969	0.9979
KEEL vehicle3	0.8387	0.8456	0.8383	0.8447	0.8733
KEEL vowel0	0.9948	0.9963	0.9953	0.9961	0.9997
KEEL wisconsin	0.9918	0.9931	0.9936	0.9928	0.9932
KEEL yeast-0-2-5-6_vs_3-7	0.8237	0.8387	0.8448	0.8225	0.8561
KEEL yeast-0-2-5-7-9_vs_3	0.9166	0.9334	0.9409	0.9217	0.9379
KEEL yeast-0-3-5-9_vs_7-8	0.7705	0.7759	0.7896	0.7702	0.7754
KEEL yeast-0-5-6-7-9_vs_4	0.8878	0.8939	0.8894	0.8829	0.8856
KEEL yeast-1-2-8-9_vs_7	0.7884	0.7855	0.7914	0.7901	0.8007
KEEL yeast-1-4-5-8_vs_7	0.6881	0.6866	0.6929	0.6896	0.6890
KEEL yeast-1_vs_7	0.8450	0.8345	0.8357	0.8406	0.8371
KEEL yeast-2_vs_4	0.9816	0.9832	0.9819	0.9822	0.9800
KEEL yeast-2_vs_8	0.7684	0.8229	0.8410	0.7706	0.8303
KEEL yeast1	0.7940	0.8007	0.7977	0.7965	0.8061
KEEL yeast3	0.9721	0.9732	0.9718	0.9711	0.9757
KEEL yeast4	0.9323	0.9413	0.9388	0.9350	0.9351
KEEL yeast5	0.9810	0.9904	0.9892	0.9881	0.9911
KEEL yeast6	0.9090	0.9115	0.9142	0.9100	0.9313

Table 17: F-measure for Ba ensembles, HDDT and KEEL datasets.

Dataset	Ba	O+ Ba	DN+ Ba	RFW+ Ba	RF+ Ba
HDDT PhosS	0.1031	0.0678	0.1016	0.0375	0.0869
HDDT boundary	0.0000	0.0000	0.0000	0.0000	0.0000
HDDT breast-y	0.3820	0.3845	0.4104	0.3768	0.4139
HDDT cam	0.0158	0.0088	0.0146	0.0021	0.0042
HDDT compustat	0.0739	0.0646	0.0900	0.0455	0.0317
HDDT covtype	0.8645	0.8699	0.8669	0.8630	0.8680
HDDT credit-g	0.5075	0.4859	0.4864	0.4479	0.4968
HDDT estate	0.0116	0.0110	0.0199	0.0098	0.0170
HDDT german-numer	0.5152	0.4899	0.4964	0.4799	0.5066
HDDT heart-v	0.3450	0.3206	0.3309	0.3144	0.3019
HDDT hypo	0.9117	0.9080	0.9117	0.9051	0.8810
HDDT ism	0.6360	0.6398	0.6354	0.6213	0.6393
HDDT letter	0.9542	0.9500	0.9489	0.9523	0.9402
HDDT oil	0.3950	0.3593	0.3957	0.3464	0.3747
HDDT optdigits	0.9781	0.9839	0.9845	0.9850	0.9868
HDDT page	0.8773	0.8786	0.8742	0.8758	0.8814
HDDT pendigits	0.9611	0.9774	0.9765	0.9766	0.9808
HDDT phoneme	0.7903	0.7970	0.7962	0.7972	0.7992
HDDT satimage	0.6247	0.6261	0.6296	0.6215	0.6094
HDDT segment	0.9780	0.9780	0.9792	0.9820	0.9890
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.1864	0.1367	0.1672	0.1637	0.3047
KEEL cleveland-0_vs_4	0.3411	0.3136	0.3280	0.3124	0.2866
KEEL ecoli-0-1-3-7_vs_2-6	0.1000	0.1000	0.1000	0.0500	0.0500
KEEL ecoli-0-1-4-6_vs_5	0.7645	0.7977	0.8306	0.7858	0.7943
KEEL ecoli-0-1-4-7_vs_2-3	0.6569	0.6831	0.6946	0.6518	0.7020
KEEL ecoli-0-1-4-7_vs_5-6	0.6249	0.6770	0.6574	0.5876	0.6468
KEEL ecoli-0-1_vs_2-3-5	0.7283	0.7307	0.7427	0.7351	0.7427
KEEL ecoli-0-1_vs_5	0.7807	0.8173	0.8210	0.7694	0.8016
KEEL ecoli-0-2-3-4_vs_5	0.7765	0.8122	0.8217	0.7799	0.8033
KEEL ecoli-0-2-6-7_vs_3-5	0.7928	0.8168	0.7991	0.7928	0.7277
KEEL ecoli-0-3-4-6_vs_5	0.7870	0.8235	0.8322	0.8128	0.8100
KEEL ecoli-0-3-4-7_vs_5-6	0.7566	0.7836	0.7719	0.7531	0.7723
KEEL ecoli-0-3-4_vs_5	0.7519	0.8194	0.8029	0.7635	0.7913
KEEL ecoli-0-4-6_vs_5	0.8255	0.8163	0.8430	0.8300	0.8158
KEEL ecoli-0-6-7_vs_3-5	0.7555	0.7673	0.7594	0.7491	0.7026
KEEL ecoli-0-6-7_vs_5	0.8324	0.8356	0.8324	0.8259	0.7851
KEEL ecoli-0_vs_1	0.9778	0.9740	0.9778	0.9740	0.9697
KEEL ecoli1	0.7622	0.7621	0.7669	0.7556	0.7807
KEEL ecoli2	0.8058	0.8251	0.8324	0.8237	0.8010
KEEL ecoli3	0.5335	0.5434	0.5339	0.5267	0.4685
KEEL ecoli4	0.7643	0.8257	0.8093	0.7805	0.8082
KEEL glass-0-1-2-3_vs_4-5	0.8667	0.8660	0.8689	0.8619	0.8764
KEEL glass-0-1-4-6_vs_2	0.0200	0.0200	0.0422	0.0200	0.0000
KEEL glass-0-1-5_vs_2	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL glass-0-1-6_vs_2	0.0000	0.0422	0.0404	0.0000	0.0000
KEEL glass-0-1-6_vs_5	0.4609	0.2856	0.3967	0.2626	0.0333
KEEL glass-0-4_vs_5	0.9505	0.8809	0.9505	0.8918	0.7932
KEEL glass-0-6_vs_5	0.5383	0.4927	0.5150	0.4706	0.3495
KEEL glass0	0.7310	0.7337	0.7408	0.7272	0.6943
KEEL glass1	0.6312	0.6516	0.6492	0.6372	0.6281
KEEL glass2	0.0133	0.0000	0.0182	0.0143	0.0000
KEEL glass4	0.3794	0.3733	0.3799	0.3610	0.3008
KEEL glass5	0.6345	0.4579	0.4590	0.4929	0.0400
KEEL glass6	0.8499	0.8730	0.8633	0.8699	0.8715
KEEL haberman	0.3764	0.3482	0.3372	0.3717	0.2772
KEEL iris0	0.9813	0.9813	1.0000	0.9939	1.0000
KEEL led7digit-0-2-4-5-6-	0.7856	0.8020	0.7994	0.7926	0.7695
KEEL new-thyroid1	0.8825	0.9060	0.9061	0.9267	0.9482
KEEL new-thyroid2	0.9136	0.9379	0.9228	0.9386	0.9563
KEEL page-blocks-1-3_vs_4	0.9247	0.9577	0.9313	0.8955	0.8293
KEEL pima	0.6359	0.6354	0.6303	0.6360	0.6344
KEEL shuttle-c0-vs-c4	0.9943	0.9967	0.9943	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8200	0.6300	0.8300	0.7700	0.7300
KEEL vehicle0	0.8920	0.8984	0.8906	0.9002	0.9429
KEEL vehicle1	0.5076	0.5045	0.5108	0.4897	0.5279
KEEL vehicle2	0.9483	0.9613	0.9540	0.9590	0.9619
KEEL vehicle3	0.4799	0.4851	0.4500	0.4588	0.4627
KEEL vowel0	0.9119	0.9168	0.9064	0.9241	0.9583
KEEL wisconsin	0.9456	0.9511	0.9514	0.9526	0.9621
KEEL yeast-0-2-5-6_vs_3-7	0.5373	0.5251	0.5405	0.5333	0.5628
KEEL yeast-0-2-5-7-9_vs_3	0.7623	0.7601	0.7536	0.7650	0.8016
KEEL yeast-0-3-5-9_vs_7-8	0.2128	0.1960	0.1707	0.1732	0.1768
KEEL yeast-0-5-6-7-9_vs_4	0.4698	0.4499	0.4810	0.4711	0.3810
KEEL yeast-1-2-8-9_vs_7	0.0812	0.0445	0.0663	0.0666	0.0125
KEEL yeast-1-4-5-8_vs_7	0.0105	0.0000	0.0000	0.0000	0.0000
KEEL yeast-1_vs_7	0.2257	0.1979	0.2130	0.1859	0.1495
KEEL yeast-2_vs_4	0.7550	0.7694	0.7701	0.7655	0.7874
KEEL yeast-2_vs_8	0.0000	0.0182	0.0000	0.0000	0.1566
KEEL yeast1	0.5503	0.5490	0.5489	0.5446	0.5293
KEEL yeast3	0.7751	0.7749	0.7763	0.7690	0.7657
KEEL yeast4	0.3172	0.2721	0.2882	0.2415	0.1711
KEEL yeast5	0.7099	0.7151	0.7021	0.7081	0.6746
KEEL yeast6	0.4601	0.4672	0.4539	0.4343	0.4291

Table 18: G-mean for Ba ensembles, HDDT and KEEL datasets.

Dataset	Ba	O+ Ba	DN+ Ba	RFW+ Ba	RF+ Ba
HDDT PhosS	0.2341	0.1737	0.2321	0.1049	0.2102
HDDT boundary	0.0000	0.0000	0.0000	0.0000	0.0000
HDDT breast-y	0.5177	0.5152	0.5373	0.5075	0.5376
HDDT cam	0.0876	0.0651	0.0838	0.0203	0.0407
HDDT compustat	0.1941	0.1792	0.2152	0.1492	0.1257
HDDT covtype	0.9070	0.9096	0.9072	0.9018	0.8987
HDDT credit-g	0.6190	0.5953	0.5991	0.5586	0.6022
HDDT estate	0.0679	0.0656	0.0987	0.0609	0.0795
HDDT german-numer	0.6234	0.6010	0.6078	0.5897	0.6122
HDDT heart-v	0.4810	0.4548	0.4642	0.4510	0.4321
HDDT hypo	0.9479	0.9450	0.9479	0.9416	0.9189
HDDT ism	0.7158	0.7164	0.7157	0.6981	0.7152
HDDT letter	0.9637	0.9572	0.9575	0.9547	0.9424
HDDT oil	0.5261	0.4881	0.5212	0.4730	0.4884
HDDT optdigits	0.9829	0.9861	0.9873	0.9864	0.9871
HDDT page	0.9225	0.9220	0.9215	0.9181	0.9220
HDDT pendigits	0.9682	0.9807	0.9799	0.9789	0.9830
HDDT phoneme	0.8474	0.8522	0.8509	0.8519	0.8522
HDDT satimage	0.7169	0.7161	0.7176	0.7072	0.7001
HDDT segment	0.9841	0.9834	0.9848	0.9868	0.9903
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.3305	0.2654	0.3089	0.3054	0.4286
KEEL cleveland-0_vs_4	0.4544	0.4072	0.4333	0.3981	0.3538
KEEL ecoli-0-1-3-7_vs_2-6	0.1155	0.1155	0.1155	0.0577	0.0577
KEEL ecoli-0-1-4-6_vs_5	0.8225	0.8333	0.8622	0.8266	0.8164
KEEL ecoli-0-1-4-7_vs_2-3	0.7344	0.7365	0.7474	0.7154	0.7403
KEEL ecoli-0-1-4-7_vs_5-6	0.7203	0.7361	0.7284	0.6785	0.6994
KEEL ecoli-0-1_vs_2-3-5	0.7889	0.7740	0.7861	0.7800	0.7757
KEEL ecoli-0-1_vs_5	0.8424	0.8462	0.8566	0.8181	0.8225
KEEL ecoli-0-2-3-4_vs_5	0.8592	0.8595	0.8744	0.8386	0.8463
KEEL ecoli-0-2-6-7_vs_3-5	0.8644	0.8625	0.8699	0.8644	0.7600
KEEL ecoli-0-3-4-6_vs_5	0.8538	0.8653	0.8762	0.8483	0.8335
KEEL ecoli-0-3-4-7_vs_5-6	0.8235	0.8260	0.8290	0.8148	0.8025
KEEL ecoli-0-3-4_vs_5	0.8493	0.8635	0.8702	0.8232	0.8290
KEEL ecoli-0-4-6_vs_5	0.8605	0.8530	0.8724	0.8609	0.8474
KEEL ecoli-0-6-7_vs_3-5	0.8258	0.8235	0.8263	0.8203	0.7494
KEEL ecoli-0-6-7_vs_5	0.8981	0.8830	0.8981	0.8923	0.8133
KEEL ecoli-0_vs_1	0.9820	0.9800	0.9820	0.9793	0.9753
KEEL ecoli1	0.8388	0.8378	0.8421	0.8347	0.8442
KEEL ecoli2	0.8609	0.8644	0.8695	0.8592	0.8426
KEEL ecoli3	0.6663	0.6663	0.6499	0.6528	0.6111
KEEL ecoli4	0.8419	0.8616	0.8661	0.8427	0.8284
KEEL glass-0-1-2-3_vs_4-5	0.9117	0.9049	0.9151	0.9086	0.9165
KEEL glass-0-1-4-6_vs_2	0.0333	0.0333	0.0687	0.0333	0.0000
KEEL glass-0-1-5_vs_2	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL glass-0-1-6_vs_2	0.0000	0.0687	0.0685	0.0000	0.0000
KEEL glass-0-1-6_vs_5	0.5429	0.3567	0.4497	0.3144	0.0447
KEEL glass-0-4_vs_5	0.9939	0.9303	0.9939	0.9407	0.8174
KEEL glass-0-6_vs_5	0.6071	0.5648	0.5560	0.5357	0.4047
KEEL glass0	0.7998	0.8004	0.8056	0.7938	0.7643
KEEL glass1	0.7034	0.7177	0.7149	0.7061	0.6967
KEEL glass2	0.0343	0.0000	0.0332	0.0345	0.0000
KEEL glass4	0.5202	0.4740	0.5041	0.4964	0.3930
KEEL glass5	0.7364	0.5082	0.5389	0.5774	0.0500
KEEL glass6	0.9162	0.9138	0.9215	0.9134	0.9015
KEEL haberman	0.5150	0.4925	0.4879	0.5091	0.4167
KEEL iris0	0.9816	0.9816	1.0000	0.9939	1.0000
KEEL led7digit-0-2-4-5-6-	0.8761	0.8857	0.8832	0.8770	0.8548
KEEL new-thyroid1	0.9203	0.9263	0.9285	0.9402	0.9520
KEEL new-thyroid2	0.9356	0.9525	0.9399	0.9530	0.9661
KEEL page-blocks-1-3_vs_4	0.9480	0.9658	0.9418	0.9063	0.8591
KEEL pima	0.7124	0.7121	0.7074	0.7116	0.7106
KEEL shuttle-c0-vs-c4	0.9996	0.9967	0.9996	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8266	0.6703	0.8476	0.7843	0.7631
KEEL vehicle0	0.9339	0.9360	0.9330	0.9392	0.9636
KEEL vehicle1	0.6295	0.6288	0.6309	0.6139	0.6389
KEEL vehicle2	0.9636	0.9733	0.9680	0.9710	0.9699
KEEL vehicle3	0.6000	0.6040	0.5748	0.5812	0.5777
KEEL vowel0	0.9408	0.9372	0.9390	0.9441	0.9637
KEEL wisconsin	0.9584	0.9629	0.9627	0.9648	0.9738
KEEL yeast-0-2-5-6_vs_3-7	0.6399	0.6290	0.6414	0.6313	0.6519
KEEL yeast-0-2-5-7-9_vs_3	0.8344	0.8320	0.8272	0.8357	0.8511
KEEL yeast-0-3-5-9_vs_7-8	0.3192	0.3143	0.2783	0.2802	0.3051
KEEL yeast-0-5-6-7-9_vs_4	0.6068	0.5828	0.6118	0.5991	0.5086
KEEL yeast-1-2-8-9_vs_7	0.1432	0.0880	0.1245	0.1245	0.0258
KEEL yeast-1-4-5-8_vs_7	0.0257	0.0000	0.0000	0.0000	0.0000
KEEL yeast-1_vs_7	0.3662	0.3342	0.3515	0.3198	0.2548
KEEL yeast-2_vs_4	0.8501	0.8544	0.8545	0.8560	0.8357
KEEL yeast-2_vs_8	0.0000	0.0316	0.0000	0.0000	0.1959
KEEL yeast1	0.6545	0.6523	0.6532	0.6485	0.6318
KEEL yeast3	0.8726	0.8669	0.8694	0.8631	0.8406
KEEL yeast4	0.4542	0.4081	0.4291	0.3827	0.3104
KEEL yeast5	0.8150	0.8153	0.8059	0.8017	0.7660
KEEL yeast6	0.6012	0.6060	0.5971	0.5607	0.5528

Table 19: AUC for SMBa ensembles, HDDT and KEEL datasets.

Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa
HDDT PhosS	0.7397	0.7597	0.7406	0.7604	0.7522
HDDT boundary	0.6569	0.6842	0.6595	0.7074	0.7259
HDDT breast-y	0.6471	0.6550	0.6548	0.6517	0.6627
HDDT cam	0.7132	0.7336	0.7152	0.7627	0.7593
HDDT compustat	0.9105	0.9238	0.9157	0.9217	0.9301
HDDT covtype	0.9929	0.9948	0.9939	0.9944	0.9956
HDDT credit-g	0.7581	0.7706	0.7628	0.7750	0.7838
HDDT estate	0.6148	0.6166	0.6157	0.6169	0.6276
HDDT german-numer	0.7761	0.7775	0.7767	0.7804	0.7842
HDDT heart-v	0.6965	0.7037	0.7074	0.6985	0.7004
HDDT hypo	0.9889	0.9912	0.9887	0.9929	0.9936
HDDT ism	0.9367	0.9413	0.9419	0.9467	0.9472
HDDT letter	0.9977	0.9996	0.9994	0.9998	0.9999
HDDT oil	0.9055	0.9252	0.9122	0.9234	0.9304
HDDT optdigits	0.9969	0.9995	0.9997	0.9999	0.9998
HDDT page	0.9908	0.9917	0.9915	0.9915	0.9923
HDDT pendigits	0.9993	0.9999	0.9998	0.9999	0.9999
HDDT phoneme	0.9409	0.9452	0.9457	0.9448	0.9476
HDDT satimage	0.9495	0.9536	0.9530	0.9564	0.9597
HDDT segment	0.9948	0.9995	0.9995	0.9996	0.9999
KEEL abalone19	0.7571	0.7617	0.7550	0.7732	0.7924
KEEL abalone9-18	0.7967	0.8077	0.8031	0.8137	0.9013
KEEL cleveland-0_vs_4	0.9339	0.9507	0.9533	0.9474	0.9596
KEEL ecoli-0-1-3-7_vs_2-6	0.8718	0.9316	0.9027	0.9278	0.9296
KEEL ecoli-0-1-4-6_vs_5	0.9517	0.9750	0.9748	0.9825	0.9779
KEEL ecoli-0-1-4-7_vs_2-3	0.9182	0.9366	0.9311	0.9350	0.9369
KEEL ecoli-0-1-4-7_vs_5-6	0.9222	0.9622	0.9625	0.9592	0.9651
KEEL ecoli-0-1_vs_2-3-5	0.9442	0.9610	0.9564	0.9633	0.9639
KEEL ecoli-0-1_vs_5	0.9280	0.9716	0.9634	0.9757	0.9803
KEEL ecoli-0-2-3-4_vs_5	0.9479	0.9773	0.9791	0.9837	0.9785
KEEL ecoli-0-2-6-7_vs_3-5	0.9190	0.9441	0.9373	0.9378	0.9461
KEEL ecoli-0-3-4-6_vs_5	0.9376	0.9703	0.9536	0.9818	0.9765
KEEL ecoli-0-3-4-7_vs_5-6	0.9277	0.9576	0.9523	0.9534	0.9565
KEEL ecoli-0-3-4_vs_5	0.9139	0.9700	0.9599	0.9822	0.9714
KEEL ecoli-0-4-6_vs_5	0.9406	0.9739	0.9664	0.9807	0.9766
KEEL ecoli-0-6-7_vs_3-5	0.9032	0.9413	0.9342	0.9396	0.9420
KEEL ecoli-0-6-7_vs_5	0.9499	0.9615	0.9590	0.9628	0.9585
KEEL ecoli-0_vs_1	0.9855	0.9948	0.9920	0.9917	0.9954
KEEL ecoli1	0.9522	0.9542	0.9549	0.9562	0.9557
KEEL ecoli2	0.9414	0.9566	0.9590	0.9594	0.9602
KEEL ecoli3	0.9273	0.9387	0.9327	0.9311	0.9452
KEEL ecoli4	0.9132	0.9810	0.9832	0.9819	0.9905

Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa
KEEL glass-0-1-2-3_vs_4-5	0.9582	0.9798	0.9733	0.9764	0.9837
KEEL glass-0-1-4-6_vs_2	0.7431	0.7328	0.7788	0.7644	0.8331
KEEL glass-0-1-5_vs_2	0.7416	0.7335	0.7560	0.7622	0.8448
KEEL glass-0-1-6_vs_2	0.7374	0.7548	0.7431	0.7702	0.8315
KEEL glass-0-1-6_vs_5	0.9958	0.9969	0.9971	0.9954	0.9905
KEEL glass-0-4_vs_5	0.9940	1.0000	1.0000	1.0000	0.9985
KEEL glass-0-6_vs_5	0.9872	0.9957	0.9976	0.9975	0.9987
KEEL glass0	0.8673	0.8824	0.8790	0.8777	0.8940
KEEL glass1	0.8266	0.8537	0.8527	0.8424	0.8513
KEEL glass2	0.8073	0.8009	0.8269	0.8182	0.8726
KEEL glass4	0.8861	0.9643	0.9552	0.9598	0.9793
KEEL glass5	0.9921	0.9946	0.9956	0.9939	0.9917
KEEL glass6	0.9513	0.9684	0.9575	0.9601	0.9761
KEEL haberman	0.7021	0.6922	0.6883	0.7003	0.6934
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9528	0.9624	0.9607	0.9632	0.9624
KEEL new-thyroid1	0.9919	0.9955	0.9941	0.9964	0.9986
KEEL new-thyroid2	0.9936	0.9959	0.9952	0.9969	0.9988
KEEL page-blocks-1-3_vs_4	0.9988	0.9997	0.9995	0.9999	0.9998
KEEL pima	0.8143	0.8178	0.8150	0.8180	0.8279
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9887	0.9907	0.9893	0.9908	0.9963
KEEL vehicle1	0.8464	0.8524	0.8478	0.8523	0.8801
KEEL vehicle2	0.9930	0.9969	0.9932	0.9968	0.9980
KEEL vehicle3	0.8423	0.8475	0.8398	0.8448	0.8665
KEEL vowel0	0.9969	0.9967	0.9971	0.9977	0.9998
KEEL wisconsin	0.9912	0.9933	0.9929	0.9924	0.9926
KEEL yeast-0-2-5-6_vs_3-7	0.8475	0.8529	0.8517	0.8515	0.8549
KEEL yeast-0-2-5-7-9_vs_3	0.9421	0.9448	0.9452	0.9521	0.9502
KEEL yeast-0-3-5-9_vs_7-8	0.7473	0.7601	0.7650	0.7552	0.7629
KEEL yeast-0-5-6-7-9_vs_4	0.8826	0.8903	0.8916	0.8846	0.8880
KEEL yeast-1-2-8-9_vs_7	0.7513	0.7644	0.7491	0.7784	0.7725
KEEL yeast-1-4-5-8_vs_7	0.6480	0.6727	0.6607	0.6691	0.6822
KEEL yeast-1_vs_7	0.7946	0.8139	0.7951	0.8032	0.8078
KEEL yeast-2_vs_4	0.9781	0.9798	0.9789	0.9776	0.9807
KEEL yeast-2_vs_8	0.8107	0.8125	0.8169	0.8542	0.7958
KEEL yeast1	0.7903	0.7979	0.7935	0.7930	0.8081
KEEL yeast3	0.9719	0.9737	0.9733	0.9716	0.9759
KEEL yeast4	0.9373	0.9397	0.9358	0.9336	0.9369
KEEL yeast5	0.9817	0.9910	0.9900	0.9890	0.9917
KEEL yeast6	0.8986	0.9068	0.9074	0.9129	0.9248

Table 20: F-measure for SMBa ensembles, HDDT and KEEL datasets.

Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa
HDDT PhosS	0.1697	0.1188	0.1786	0.0688	0.1382
HDDT boundary	0.1230	0.1024	0.1296	0.0812	0.0634
HDDT breast-y	0.4105	0.4267	0.4185	0.4069	0.4152
HDDT cam	0.1511	0.1459	0.1509	0.0896	0.1435
HDDT compustat	0.4131	0.4333	0.4219	0.4207	0.4363
HDDT covtype	0.8679	0.8783	0.8745	0.8762	0.8752
HDDT credit-g	0.5458	0.5566	0.5484	0.5537	0.5538
HDDT estate	0.2220	0.2151	0.2164	0.2166	0.2237
HDDT german-numer	0.5563	0.5646	0.5588	0.5363	0.5891
HDDT heart-v	0.4195	0.4099	0.4386	0.4271	0.4072
HDDT hypo	0.8655	0.8732	0.8714	0.8813	0.8747
HDDT ism	0.5866	0.6043	0.6029	0.6225	0.6134
HDDT letter	0.9474	0.9685	0.9579	0.9669	0.9772
HDDT oil	0.4729	0.5286	0.4964	0.5299	0.5547
HDDT optdigits	0.9795	0.9880	0.9857	0.9913	0.9920
HDDT page	0.8515	0.8606	0.8564	0.8622	0.8597
HDDT pendigits	0.9682	0.9826	0.9782	0.9829	0.9888
HDDT phoneme	0.7932	0.8014	0.8033	0.8005	0.7988
HDDT satimage	0.6485	0.6549	0.6574	0.6630	0.6693
HDDT segment	0.9710	0.9750	0.9748	0.9786	0.9921
KEEL abalone19	0.0501	0.0400	0.0467	0.0453	0.0455
KEEL abalone9-18	0.3478	0.3420	0.3583	0.3633	0.4700
KEEL cleveland-0_vs_4	0.5530	0.5960	0.6204	0.5722	0.6832
KEEL ecoli-0-1-3-7_vs_2-6	0.4168	0.5678	0.4533	0.3826	0.5044
KEEL ecoli-0-1-4-6_vs_5	0.7108	0.7497	0.7356	0.7359	0.7893
KEEL ecoli-0-1-4-7_vs_2-3	0.6187	0.6796	0.6761	0.6946	0.7251
KEEL ecoli-0-1-4-7_vs_5-6	0.7071	0.7580	0.7315	0.7286	0.7660
KEEL ecoli-0-1_vs_2-3-5	0.7056	0.7292	0.7104	0.7228	0.7504
KEEL ecoli-0-1_vs_5	0.6579	0.7311	0.6912	0.7515	0.7848
KEEL ecoli-0-2-3-4_vs_5	0.7015	0.7644	0.7566	0.7850	0.7799
KEEL ecoli-0-2-6-7_vs_3-5	0.7169	0.7318	0.7287	0.7280	0.7273
KEEL ecoli-0-3-4-6_vs_5	0.7149	0.7341	0.7215	0.7602	0.7842
KEEL ecoli-0-3-4-7_vs_5-6	0.7214	0.7768	0.7573	0.7271	0.7491
KEEL ecoli-0-3-4_vs_5	0.6821	0.7653	0.7197	0.7490	0.7732
KEEL ecoli-0-4-6_vs_5	0.6837	0.7635	0.7311	0.7764	0.7899
KEEL ecoli-0-6-7_vs_3-5	0.6742	0.7079	0.6770	0.6912	0.7253
KEEL ecoli-0-6-7_vs_5	0.7690	0.7780	0.7887	0.7856	0.7898
KEEL ecoli-0_vs_1	0.9753	0.9678	0.9753	0.9728	0.9660
KEEL ecoli1	0.7841	0.7858	0.7909	0.7965	0.7820
KEEL ecoli2	0.7794	0.8016	0.8169	0.8154	0.8460
KEEL ecoli3	0.5852	0.6006	0.5937	0.6000	0.6258
KEEL ecoli4	0.6875	0.7559	0.7518	0.7448	0.8387

Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa
KEEL glass-0-1-2-3_vs_4-5	0.8469	0.8518	0.8615	0.8621	0.8781
KEEL glass-0-1-4-6_vs_2	0.2984	0.3460	0.3104	0.3001	0.3750
KEEL glass-0-1-5_vs_2	0.3228	0.3023	0.3132	0.2776	0.3627
KEEL glass-0-1-6_vs_2	0.2573	0.2658	0.2478	0.2590	0.3087
KEEL glass-0-1-6_vs_5	0.8041	0.8234	0.8488	0.7454	0.7016
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.9140	0.8909
KEEL glass-0-6_vs_5	0.8946	0.8929	0.9013	0.8705	0.8472
KEEL glass0	0.7273	0.7367	0.7250	0.7295	0.7248
KEEL glass1	0.6767	0.6993	0.6857	0.6801	0.6688
KEEL glass2	0.3022	0.3044	0.3042	0.2848	0.3767
KEEL glass4	0.5029	0.6139	0.5278	0.6170	0.7150
KEEL glass5	0.7650	0.7848	0.7790	0.7399	0.6727
KEEL glass6	0.8332	0.8503	0.8430	0.8337	0.8543
KEEL haberman	0.4888	0.4891	0.4869	0.4880	0.4918
KEEL iris0	0.9813	0.9813	1.0000	0.9958	1.0000
KEEL led7digit-0-2-4-5-6-	0.6920	0.7254	0.7248	0.7387	0.7417
KEEL new-thyroid1	0.9190	0.9174	0.9138	0.9292	0.9601
KEEL new-thyroid2	0.9134	0.9344	0.9202	0.9404	0.9576
KEEL page-blocks-1-3_vs_4	0.9325	0.9590	0.9365	0.9434	0.9525
KEEL pima	0.6663	0.6761	0.6722	0.6726	0.6748
KEEL shuttle-c0-vs-c4	1.0000	0.9984	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9800	0.9314
KEEL vehicle0	0.8775	0.8902	0.8775	0.8867	0.9295
KEEL vehicle1	0.6119	0.6207	0.6060	0.6166	0.6669
KEEL vehicle2	0.9320	0.9555	0.9368	0.9541	0.9657
KEEL vehicle3	0.6014	0.6063	0.5926	0.6002	0.6323
KEEL vowel0	0.8906	0.9067	0.8838	0.9148	0.9552
KEEL wisconsin	0.9480	0.9559	0.9574	0.9553	0.9638
KEEL yeast-0-2-5-6_vs_3-7	0.5692	0.5869	0.5705	0.5880	0.6019
KEEL yeast-0-2-5-7-9_vs_3	0.7612	0.7742	0.7708	0.7998	0.7853
KEEL yeast-0-3-5-9_vs_7-8	0.4050	0.3970	0.3883	0.4075	0.3633
KEEL yeast-0-5-6-7-9_vs_4	0.4906	0.5123	0.4918	0.5096	0.5505
KEEL yeast-1-2-8-9_vs_7	0.2068	0.2092	0.2136	0.2134	0.2189
KEEL yeast-1-4-5-8_vs_7	0.1518	0.1592	0.1709	0.1437	0.1678
KEEL yeast-1_vs_7	0.3287	0.3183	0.3168	0.2990	0.3406
KEEL yeast-2_vs_4	0.7196	0.7374	0.7213	0.7234	0.7526
KEEL yeast-2_vs_8	0.4588	0.5069	0.4765	0.5240	0.4050
KEEL yeast1	0.5952	0.6022	0.6009	0.6014	0.6118
KEEL yeast3	0.7851	0.7900	0.7891	0.7896	0.7790
KEEL yeast4	0.3830	0.3898	0.3866	0.4028	0.4119
KEEL yeast5	0.7252	0.7271	0.7264	0.7314	0.7128
KEEL yeast6	0.4342	0.4548	0.4412	0.4944	0.5120

Table 21: G-mean for SMBa ensembles, HDDT and KEEL datasets.

Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa	Dataset	SMBa	O+ SMBa	DN+ SMBa	RFW+ SMBa	RF+ SMBa
HDDT PhosS	0.3658	0.2663	0.3761	0.1896	0.2947	KEEL glass-0-1-2-3_vs_4-5	0.9081	0.9130	0.9185	0.9198	0.9347
HDDT boundary	0.3028	0.2584	0.3101	0.2154	0.1838	KEEL glass-0-1-4-6_vs_2	0.5311	0.5608	0.5389	0.5196	0.5852
HDDT breast-y	0.5481	0.5599	0.5525	0.5430	0.5481	KEEL glass-0-1-5_vs_2	0.5894	0.5354	0.5819	0.5137	0.5937
HDDT cam	0.3296	0.3131	0.3274	0.2261	0.2995	KEEL glass-0-1-6_vs_2	0.4944	0.4516	0.4878	0.4742	0.4768
HDDT compustat	0.7477	0.7539	0.7517	0.7300	0.7678	KEEL glass-0-1-6_vs_5	0.9603	0.9663	0.9902	0.8525	0.7945
HDDT covtype	0.9547	0.9574	0.9558	0.9546	0.9630	KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9594	0.9096
HDDT credit-g	0.6617	0.6682	0.6619	0.6629	0.6635	KEEL glass-0-6_vs_5	0.9493	0.9493	0.9501	0.9137	0.8632
HDDT estate	0.4883	0.4764	0.4781	0.4761	0.4874	KEEL glass0	0.8012	0.8081	0.7991	0.8019	0.7992
HDDT german-numer	0.6700	0.6767	0.6720	0.6491	0.6984	KEEL glass1	0.7438	0.7635	0.7529	0.7468	0.7380
HDDT heart-v	0.5686	0.5593	0.5803	0.5737	0.5484	KEEL glass2	0.5798	0.5697	0.5893	0.5361	0.6109
HDDT hypo	0.9550	0.9593	0.9560	0.9611	0.9581	KEEL glass4	0.7470	0.8058	0.7422	0.7655	0.8414
HDDT ism	0.8744	0.8757	0.8760	0.8682	0.8878	KEEL glass5	0.9556	0.9773	0.9660	0.8550	0.7712
HDDT letter	0.9747	0.9770	0.9762	0.9722	0.9824	KEEL glass6	0.9190	0.9251	0.9235	0.9132	0.9166
HDDT oil	0.7283	0.7507	0.7363	0.7118	0.7490	KEEL haberman	0.6413	0.6416	0.6401	0.6409	0.6456
HDDT optdigits	0.9890	0.9916	0.9902	0.9932	0.9932	KEEL iris0	0.9816	0.9816	1.0000	0.9959	1.0000
HDDT page	0.9515	0.9562	0.9522	0.9561	0.9561	KEEL led7digit-0-2-4-5-6-	0.8864	0.8968	0.8968	0.8910	0.8889
HDDT pendigits	0.9813	0.9894	0.9873	0.9884	0.9933	KEEL new-thyroid1	0.9505	0.9527	0.9495	0.9525	0.9781
HDDT phoneme	0.8693	0.8753	0.8755	0.8749	0.8748	KEEL new-thyroid2	0.9500	0.9613	0.9561	0.9628	0.9757
HDDT satimage	0.8341	0.8349	0.8370	0.8352	0.8610	KEEL page-blocks-1-3_vs_4	0.9634	0.9905	0.9672	0.9651	0.9796
HDDT segment	0.9872	0.9885	0.9887	0.9891	0.9931	KEEL pima	0.7402	0.7487	0.7454	0.7460	0.7477
KEEL abalone19	0.3784	0.3129	0.3410	0.2819	0.3766	KEEL shuttle-c0-vs-c4	1.0000	0.9984	1.0000	1.0000	0.9959
KEEL abalone9-18	0.6503	0.6217	0.6460	0.6321	0.7221	KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9816	0.9617
KEEL cleveland-0_vs_4	0.7115	0.7235	0.7514	0.6676	0.7738	KEEL vehicle0	0.9355	0.9438	0.9357	0.9440	0.9716
KEEL ecoli-0-1-3-7_vs_2-6	0.6323	0.8219	0.7097	0.5540	0.7353	KEEL vehicle1	0.7487	0.7550	0.7414	0.7511	0.7954
KEEL ecoli-0-1-4-6_vs_5	0.8470	0.8555	0.8487	0.8487	0.8692	KEEL vehicle2	0.9614	0.9758	0.9640	0.9747	0.9810
KEEL ecoli-0-1-4-7_vs_2-3	0.7986	0.8425	0.8338	0.8398	0.8477	KEEL vehicle3	0.7420	0.7448	0.7326	0.7390	0.7710
KEEL ecoli-0-1-4-7_vs_5-6	0.8506	0.8694	0.8615	0.8399	0.8685	KEEL vowel0	0.9667	0.9706	0.9646	0.9703	0.9932
KEEL ecoli-0-1_vs_2-3-5	0.8760	0.8746	0.8591	0.8690	0.8732	KEEL wisconsin	0.9616	0.9687	0.9698	0.9680	0.9769
KEEL ecoli-0-1_vs_5	0.8121	0.8360	0.8169	0.8426	0.8562	KEEL yeast-0-2-5-6_vs_3-7	0.7666	0.7786	0.7717	0.7665	0.7832
KEEL ecoli-0-2-3-4_vs_5	0.8716	0.8807	0.8790	0.8885	0.8762	KEEL yeast-0-2-5-7-9_vs_3	0.9025	0.9063	0.9057	0.9076	0.8982
KEEL ecoli-0-2-6-7_vs_3-5	0.8577	0.8599	0.8600	0.8596	0.8466	KEEL yeast-0-3-5-9_vs_7-8	0.6536	0.6366	0.6310	0.6310	0.6122
KEEL ecoli-0-3-4-6_vs_5	0.8504	0.8496	0.8428	0.8581	0.8611	KEEL yeast-0-5-6-7-9_vs_4	0.7346	0.7501	0.7330	0.7393	0.7661
KEEL ecoli-0-3-4-7_vs_5-6	0.8599	0.8752	0.8693	0.8340	0.8608	KEEL yeast-1-2-8-9_vs_7	0.5552	0.5482	0.5622	0.5099	0.5666
KEEL ecoli-0-3-4_vs_5	0.8052	0.8533	0.8216	0.8350	0.8482	KEEL yeast-1-4-5-8_vs_7	0.4614	0.4526	0.4718	0.4067	0.4651
KEEL ecoli-0-4-6_vs_5	0.8450	0.8758	0.8499	0.8767	0.8741	KEEL yeast-1_vs_7	0.6384	0.6177	0.6228	0.5838	0.6430
KEEL ecoli-0-6-7_vs_3-5	0.8302	0.8448	0.8259	0.8327	0.8425	KEEL yeast-2_vs_4	0.9002	0.9048	0.9040	0.9023	0.8912
KEEL ecoli-0-6-7_vs_5	0.9042	0.8964	0.9070	0.8972	0.8837	KEEL yeast-2_vs_8	0.7089	0.7427	0.7101	0.7208	0.6102
KEEL ecoli-0_vs_1	0.9807	0.9765	0.9807	0.9793	0.9739	KEEL yeast1	0.7135	0.7196	0.7178	0.7180	0.7288
KEEL ecoli1	0.8853	0.8875	0.8924	0.8976	0.8864	KEEL yeast3	0.9225	0.9227	0.9221	0.9190	0.9119
KEEL ecoli2	0.8796	0.8852	0.8931	0.8880	0.9042	KEEL yeast4	0.7684	0.7570	0.7627	0.7500	0.7550
KEEL ecoli3	0.8090	0.8286	0.8137	0.8208	0.8370	KEEL yeast5	0.9370	0.9346	0.9344	0.9348	0.9231
KEEL ecoli4	0.8220	0.8592	0.8381	0.8479	0.9052	KEEL yeast6	0.7722	0.7733	0.7791	0.7686	0.8007

Table 22: AUC for Ba-SM100 ensembles, HDDT and KEEL datasets.

Dataset	Ba-SM100	O+ Ba-SM100	DN+ Ba-SM100	RFW+ Ba-SM100	RF+ Ba-SM100
HDDT PhosS	0.7321	0.7454	0.7322	0.7483	0.7420
HDDT boundary	0.6523	0.6469	0.6510	0.6895	0.6698
HDDT breast-y	0.6538	0.6644	0.6596	0.6573	0.6555
HDDT cam	0.7647	0.7738	0.7687	0.7867	0.7885
HDDT compustat	0.9136	0.9208	0.9208	0.9162	0.9227
HDDT covtype	0.9934	0.9937	0.9938	0.9935	0.9947
HDDT credit-g	0.7682	0.7799	0.7712	0.7781	0.7882
HDDT estate	0.6379	0.6378	0.6380	0.6393	0.6493
HDDT german-numer	0.7815	0.7796	0.7821	0.7847	0.7860
HDDT heart-v	0.7036	0.7104	0.7097	0.7048	0.7056
HDDT hypo	0.9891	0.9895	0.9885	0.9923	0.9940
HDDT ism	0.9431	0.9455	0.9471	0.9466	0.9481
HDDT letter	0.9992	0.9996	0.9995	0.9998	0.9998
HDDT oil	0.9129	0.9346	0.9177	0.9216	0.9236
HDDT optdigits	0.9967	0.9995	0.9998	0.9998	0.9998
HDDT page	0.9915	0.9922	0.9920	0.9920	0.9922
HDDT pendigits	0.9994	0.9998	0.9999	0.9999	0.9999
HDDT phoneme	0.9411	0.9443	0.9450	0.9438	0.9467
HDDT satimage	0.9508	0.9538	0.9550	0.9552	0.9581
HDDT segment	0.9982	0.9993	0.9997	0.9995	0.9998
KEEL abalone19	0.7805	0.7703	0.7823	0.7761	0.8351
KEEL abalone9-18	0.8202	0.8204	0.8264	0.8198	0.9196
KEEL cleveland-0_vs_4	0.9466	0.9687	0.9744	0.9643	0.9715
KEEL ecoli-0-1-3-7_vs_2-6	0.8883	0.9306	0.9202	0.9035	0.9290
KEEL ecoli-0-1-4-6_vs_5	0.9672	0.9823	0.9834	0.9857	0.9785
KEEL ecoli-0-1-4-7_vs_2-3	0.9182	0.9313	0.9311	0.9325	0.9363
KEEL ecoli-0-1-4-7_vs_5-6	0.9475	0.9570	0.9666	0.9671	0.9684
KEEL ecoli-0-1_vs_2-3-5	0.9599	0.9630	0.9609	0.9560	0.9692
KEEL ecoli-0-1_vs_5	0.9722	0.9790	0.9823	0.9814	0.9841
KEEL ecoli-0-2-3-4_vs_5	0.9599	0.9824	0.9841	0.9851	0.9821
KEEL ecoli-0-2-6-7_vs_3-5	0.9213	0.9459	0.9363	0.9346	0.9495
KEEL ecoli-0-3-4-6_vs_5	0.9596	0.9784	0.9798	0.9819	0.9795
KEEL ecoli-0-3-4-7_vs_5-6	0.9320	0.9550	0.9541	0.9563	0.9592
KEEL ecoli-0-3-4_vs_5	0.9590	0.9831	0.9856	0.9818	0.9807
KEEL ecoli-0-4-6_vs_5	0.9653	0.9801	0.9818	0.9832	0.9786
KEEL ecoli-0-6-7_vs_3-5	0.9048	0.9450	0.9367	0.9410	0.9511
KEEL ecoli-0-6-7_vs_5	0.9471	0.9629	0.9649	0.9623	0.9644
KEEL ecoli-0_vs_1	0.9853	0.9945	0.9920	0.9924	0.9959
KEEL ecoli1	0.9556	0.9552	0.9570	0.9566	0.9558
KEEL ecoli2	0.9466	0.9560	0.9667	0.9595	0.9555
KEEL ecoli3	0.9238	0.9385	0.9407	0.9335	0.9475
KEEL ecoli4	0.9478	0.9828	0.9876	0.9802	0.9872

Dataset	Ba-SM100	O+ Ba-SM100	DN+ Ba-SM100	RFW+ Ba-SM100	RF+ Ba-SM100
KEEL glass-0-1-2-3_vs_4-5	0.9724	0.9790	0.9794	0.9761	0.9847
KEEL glass-0-1-4-6_vs_2	0.7255	0.7013	0.7428	0.7319	0.8159
KEEL glass-0-1-5_vs_2	0.6951	0.6812	0.7152	0.7116	0.7987
KEEL glass-0-1-6_vs_2	0.7162	0.7139	0.7415	0.7262	0.8264
KEEL glass-0-1-6_vs_5	0.9948	0.9955	0.9953	0.9930	0.9884
KEEL glass-0-4_vs_5	0.9975	0.9984	1.0000	1.0000	0.9931
KEEL glass-0-6_vs_5	0.9808	0.9961	0.9980	0.9976	0.9908
KEEL glass0	0.8695	0.8840	0.8822	0.8808	0.8909
KEEL glass1	0.8205	0.8491	0.8439	0.8355	0.8443
KEEL glass2	0.7656	0.7443	0.7883	0.7585	0.8685
KEEL glass4	0.9175	0.9637	0.9583	0.9448	0.9725
KEEL glass5	0.9912	0.9929	0.9952	0.9934	0.9914
KEEL glass6	0.9557	0.9731	0.9589	0.9624	0.9720
KEEL haberman	0.7088	0.7057	0.6991	0.7057	0.6996
KEEL iris0	0.9880	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9610	0.9660	0.9656	0.9632	0.9593
KEEL new-thyroid1	0.9931	0.9964	0.9947	0.9968	0.9996
KEEL new-thyroid2	0.9910	0.9963	0.9939	0.9971	0.9990
KEEL page-blocks-1-3_vs_4	0.9992	0.9998	0.9996	0.9996	0.9995
KEEL pima	0.8167	0.8194	0.8175	0.8188	0.8294
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9893	0.9909	0.9899	0.9916	0.9965
KEEL vehicle1	0.8507	0.8544	0.8502	0.8532	0.8790
KEEL vehicle2	0.9928	0.9969	0.9936	0.9967	0.9980
KEEL vehicle3	0.8419	0.8471	0.8394	0.8429	0.8656
KEEL vowel0	0.9962	0.9968	0.9962	0.9972	0.9997
KEEL wisconsin	0.9917	0.9930	0.9932	0.9926	0.9932
KEEL yeast-0-2-5-6_vs_3-7	0.8393	0.8468	0.8474	0.8407	0.8586
KEEL yeast-0-2-5-7-9_vs_3	0.9399	0.9439	0.9467	0.9423	0.9432
KEEL yeast-0-3-5-9_vs_7-8	0.7655	0.7731	0.7788	0.7814	0.7752
KEEL yeast-0-5-6-7-9_vs_4	0.8943	0.8985	0.8972	0.8925	0.8901
KEEL yeast-1-2-8-9_vs_7	0.7993	0.7900	0.7938	0.8012	0.8011
KEEL yeast-1-4-5-8_vs_7	0.6821	0.6829	0.6780	0.6875	0.7067
KEEL yeast-1_vs_7	0.8338	0.8291	0.8389	0.8410	0.8342
KEEL yeast-2_vs_4	0.9822	0.9836	0.9829	0.9814	0.9810
KEEL yeast-2_vs_8	0.8269	0.8346	0.8206	0.8469	0.8278
KEEL yeast1	0.7949	0.8000	0.7985	0.7973	0.8101
KEEL yeast3	0.9735	0.9735	0.9752	0.9714	0.9748
KEEL yeast4	0.9370	0.9433	0.9425	0.9419	0.9372
KEEL yeast5	0.9832	0.9908	0.9905	0.9889	0.9913
KEEL yeast6	0.9127	0.9133	0.9241	0.9241	0.9303

Table 23: F-measure for Ba-SM100 ensembles, HDDT and KEEL datasets.

Dataset	Ba-SM100	O+ Ba-SM100	DN+ Ba-SM100	RFW+ Ba-SM100	RF+ Ba-SM100
HDDT PhosS	0.1216	0.0849	0.1201	0.0436	0.0967
HDDT boundary	0.0000	0.0000	0.0000	0.0031	0.0000
HDDT breast-y	0.4140	0.4267	0.4049	0.4206	0.4024
HDDT cam	0.0944	0.0774	0.0908	0.0684	0.0983
HDDT compustat	0.2120	0.2227	0.2370	0.1629	0.1731
HDDT covtype	0.8746	0.8783	0.8770	0.8746	0.8849
HDDT credit-g	0.5498	0.5574	0.5469	0.5374	0.5394
HDDT estate	0.0683	0.0653	0.0780	0.0607	0.0815
HDDT german-numer	0.5554	0.5470	0.5520	0.5312	0.5726
HDDT heart-v	0.3954	0.4028	0.4108	0.3902	0.3829
HDDT hypo	0.9103	0.9088	0.9120	0.9017	0.8888
HDDT ism	0.6655	0.6768	0.6735	0.6709	0.6755
HDDT letter	0.9528	0.9511	0.9496	0.9510	0.9514
HDDT oil	0.4836	0.4887	0.5119	0.4354	0.4983
HDDT optdigits	0.9794	0.9854	0.9865	0.9865	0.9903
HDDT page	0.8809	0.8830	0.8830	0.8868	0.8851
HDDT pendigits	0.9691	0.9798	0.9822	0.9817	0.9840
HDDT phoneme	0.7993	0.8066	0.8094	0.8062	0.8031
HDDT satimage	0.6499	0.6568	0.6554	0.6423	0.6552
HDDT segment	0.9805	0.9830	0.9814	0.9836	0.9896
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.2839	0.2439	0.2719	0.2480	0.4169
KEEL cleveland-0_vs_4	0.4578	0.4256	0.4778	0.4828	0.3873
KEEL ecoli-0-1-3-7_vs_2-6	0.4600	0.4233	0.3838	0.3533	0.2300
KEEL ecoli-0-1-4-6_vs_5	0.8097	0.8078	0.8215	0.8225	0.8137
KEEL ecoli-0-1-4-7_vs_2-3	0.6906	0.7476	0.7399	0.6996	0.7345
KEEL ecoli-0-1-4-7_vs_5-6	0.6796	0.7273	0.7305	0.6647	0.7401
KEEL ecoli-0-1_vs_2-3-5	0.7252	0.7353	0.7698	0.7683	0.7791
KEEL ecoli-0-1_vs_5	0.7822	0.8067	0.8269	0.7907	0.8074
KEEL ecoli-0-2-3-4_vs_5	0.7720	0.8232	0.8084	0.8020	0.8109
KEEL ecoli-0-2-6-7_vs_3-5	0.7956	0.7974	0.7956	0.8031	0.8003
KEEL ecoli-0-3-4-6_vs_5	0.7827	0.8257	0.8039	0.8225	0.8207
KEEL ecoli-0-3-4-7_vs_5-6	0.7611	0.8046	0.7784	0.7833	0.7827
KEEL ecoli-0-3-4_vs_5	0.7546	0.8201	0.8027	0.7709	0.8110
KEEL ecoli-0-4-6_vs_5	0.8190	0.8186	0.8417	0.8205	0.7987
KEEL ecoli-0-6-7_vs_3-5	0.7446	0.7606	0.7425	0.7565	0.7537
KEEL ecoli-0-6-7_vs_5	0.8254	0.8381	0.8324	0.8277	0.8033
KEEL ecoli-0.vs_1	0.9753	0.9678	0.9753	0.9728	0.9683
KEEL ecoli1	0.7735	0.7801	0.7809	0.7871	0.7924
KEEL ecoli2	0.8067	0.8322	0.8390	0.8315	0.8330
KEEL ecoli3	0.5569	0.5654	0.5665	0.5683	0.5846
KEEL ecoli4	0.7542	0.8263	0.8183	0.7847	0.8611
KEEL glass-0-1-2-3_vs_4-5	0.8588	0.8750	0.8695	0.8608	0.8848
KEEL glass-0-1-4-6_vs_2	0.1035	0.0764	0.1079	0.1109	0.0897
KEEL glass-0-1-5_vs_2	0.0921	0.0986	0.0589	0.1148	0.0771
KEEL glass-0-1-6_vs_2	0.0869	0.0586	0.0897	0.0793	0.1064
KEEL glass-0-1-6_vs_5	0.6879	0.6283	0.7187	0.5744	0.2067
KEEL glass-0-4_vs_5	0.9505	0.9394	0.9505	0.8807	0.8432
KEEL glass-0-6_vs_5	0.7756	0.7006	0.7298	0.6757	0.5300
KEEL glass0	0.7306	0.7250	0.7296	0.7303	0.7031
KEEL glass1	0.6525	0.6828	0.6578	0.6576	0.6716
KEEL glass2	0.1060	0.0867	0.0547	0.0545	0.0737
KEEL glass4	0.4428	0.4506	0.4496	0.4803	0.4146
KEEL glass5	0.6855	0.5726	0.5976	0.5388	0.1971
KEEL glass6	0.8551	0.8543	0.8581	0.8635	0.8624
KEEL haberman	0.4604	0.4417	0.4417	0.4573	0.4433
KEEL iris0	0.9813	0.9855	1.0000	0.9897	1.0000
KEEL led7digit-0-2-4-5-6-	0.7875	0.8043	0.7989	0.7868	0.7912
KEEL new-thyroid1	0.9089	0.9265	0.9199	0.9227	0.9557
KEEL new-thyroid2	0.9075	0.9361	0.9280	0.9382	0.9716
KEEL page-blocks-1-3_vs_4	0.9298	0.9677	0.9417	0.9290	0.9183
KEEL pima	0.6698	0.6698	0.6706	0.6657	0.6734
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	0.9984	0.9959
KEEL shuttle-c2-vs-c4	1.0000	0.9600	0.9600	0.8800	0.8700
KEEL vehicle0	0.8872	0.8949	0.8912	0.8994	0.9371
KEEL vehicle1	0.5656	0.5764	0.5629	0.5652	0.6077
KEEL vehicle2	0.9328	0.9573	0.9407	0.9598	0.9657
KEEL vehicle3	0.5489	0.5480	0.5294	0.5434	0.5842
KEEL vowel0	0.8999	0.9117	0.8991	0.9299	0.9762
KEEL wisconsin	0.9479	0.9531	0.9565	0.9586	0.9662
KEEL yeast-0-2-5-6_vs_3-7	0.5465	0.5564	0.5685	0.5619	0.6301
KEEL yeast-0-2-5-7-9_vs_3	0.7611	0.7646	0.7576	0.7632	0.8090
KEEL yeast-0-3-5-9_vs_7-8	0.3348	0.3410	0.3561	0.3178	0.3240
KEEL yeast-0-5-6-7-9_vs_4	0.4953	0.4827	0.4964	0.4925	0.4767
KEEL yeast-1-2-8-9_vs_7	0.1907	0.1819	0.1479	0.1404	0.0663
KEEL yeast-1-4-5-8_vs_7	0.0000	0.0095	0.0000	0.0000	0.0000
KEEL yeast-1_vs_7	0.3130	0.3183	0.3213	0.2651	0.2279
KEEL yeast-2_vs_4	0.7512	0.7626	0.7767	0.7537	0.7840
KEEL yeast-2_vs_8	0.4651	0.4250	0.4980	0.4030	0.3168
KEEL yeast1	0.5948	0.5975	0.5929	0.5918	0.6039
KEEL yeast3	0.7878	0.7894	0.7859	0.7819	0.7849
KEEL yeast4	0.3658	0.3711	0.3648	0.3464	0.3266
KEEL yeast5	0.7227	0.7288	0.7179	0.7135	0.7145
KEEL yeast6	0.5029	0.5087	0.5272	0.5057	0.4867

Table 24: G-mean for Ba-SM100 ensembles, HDDT and KEEL datasets.

Dataset	Ba-SM100	O+ Ba-SM100	DN+ Ba-SM100	RFW+ Ba-SM100	RF+ Ba-SM100
HDDT PhosS	0.2601	0.2082	0.2579	0.1307	0.2272
HDDT boundary	0.0000	0.0000	0.0000	0.0127	0.0000
HDDT breast-y	0.5538	0.5624	0.5436	0.5580	0.5390
HDDT cam	0.2331	0.2091	0.2282	0.1948	0.2383
HDDT compustat	0.3526	0.3606	0.3746	0.3001	0.3100
HDDT covtype	0.9251	0.9265	0.9251	0.9203	0.9280
HDDT credit-g	0.6615	0.6663	0.6584	0.6447	0.6490
HDDT estate	0.1942	0.1888	0.2101	0.1816	0.2109
HDDT german-numer	0.6639	0.6559	0.6613	0.6388	0.6807
HDDT heart-v	0.5315	0.5365	0.5438	0.5250	0.5175
HDDT hypo	0.9477	0.9457	0.9499	0.9400	0.9300
HDDT ism	0.7618	0.7668	0.7662	0.7552	0.7733
HDDT letter	0.9640	0.9585	0.9591	0.9538	0.9533
HDDT oil	0.6092	0.5997	0.6317	0.5526	0.6020
HDDT optdigits	0.9851	0.9880	0.9896	0.9882	0.9909
HDDT page	0.9396	0.9382	0.9405	0.9413	0.9375
HDDT pendigits	0.9751	0.9836	0.9851	0.9841	0.9867
HDDT phoneme	0.8671	0.8726	0.8730	0.8724	0.8704
HDDT satimage	0.7602	0.7614	0.7595	0.7464	0.7665
HDDT segment	0.9871	0.9888	0.9878	0.9886	0.9909
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.4347	0.3920	0.4210	0.3967	0.5389
KEEL cleveland-0_vs_4	0.5553	0.5236	0.5633	0.5528	0.4614
KEEL ecoli-0-1-3-7_vs_2-6	0.5796	0.5039	0.5086	0.4514	0.2732
KEEL ecoli-0-1-4-6_vs_5	0.8761	0.8558	0.8720	0.8825	0.8401
KEEL ecoli-0-1-4-7_vs_2-3	0.7753	0.8055	0.8068	0.7765	0.7991
KEEL ecoli-0-1-4-7_vs_5-6	0.7738	0.7829	0.7995	0.7419	0.7787
KEEL ecoli-0-1_vs_2-3-5	0.8217	0.8016	0.8351	0.8262	0.8225
KEEL ecoli-0-1_vs_5	0.8631	0.8604	0.8723	0.8431	0.8387
KEEL ecoli-0-2-3-4_vs_5	0.8685	0.8796	0.8821	0.8771	0.8627
KEEL ecoli-0-2-6-7_vs_3-5	0.4788	0.4894	0.8694	0.8704	0.8326
KEEL ecoli-0-3-4-6_vs_5	0.8794	0.8762	0.8721	0.8711	0.8456
KEEL ecoli-0-3-4-7_vs_5-6	0.8402	0.8487	0.8504	0.8387	0.8218
KEEL ecoli-0-3-4_vs_5	0.8592	0.8786	0.8702	0.8363	0.8588
KEEL ecoli-0-4-6_vs_5	0.8740	0.8642	0.8778	0.8699	0.8453
KEEL ecoli-0-6-7_vs_3-5	0.8248	0.8315	0.8253	0.8261	0.8117
KEEL ecoli-0-6-7_vs_5	0.9021	0.8989	0.8981	0.8977	0.8482
KEEL ecoli-0-vs_1	0.9807	0.9765	0.9807	0.9793	0.9746
KEEL ecoli1	0.8617	0.8657	0.8653	0.8739	0.8731
KEEL ecoli2	0.8678	0.8764	0.8845	0.8709	0.8782
KEEL ecoli3	0.7136	0.7050	0.7042	0.7076	0.7275
KEEL ecoli4	0.8405	0.8772	0.8818	0.8537	0.8750

Dataset	Ba-SM100	O+ Ba-SM100	DN+ Ba-SM100	RFW+ Ba-SM100	RF+ Ba-SM100
KEEL glass-0-1-2-3_vs_4-5	0.9087	0.9199	0.9153	0.9119	0.9297
KEEL glass-0-1-4-6_vs_2	0.1619	0.1348	0.1623	0.1626	0.1484
KEEL glass-0-1-5_vs_2	0.1507	0.1700	0.1016	0.1845	0.1365
KEEL glass-0-1-6_vs_2	0.1523	0.1034	0.1509	0.1386	0.1838
KEEL glass-0-1-6_vs_5	0.7945	0.6939	0.7864	0.6493	0.2599
KEEL glass-0-4_vs_5	0.9939	0.9834	0.9939	0.9301	0.8625
KEEL glass-0-6_vs_5	0.8352	0.7732	0.7657	0.7224	0.5858
KEEL glass0	0.8008	0.7968	0.8011	0.8009	0.7802
KEEL glass1	0.7231	0.7488	0.7281	0.7270	0.7397
KEEL glass2	0.1841	0.1493	0.1028	0.0803	0.1380
KEEL glass4	0.6070	0.5591	0.6011	0.6094	0.5209
KEEL glass5	0.8098	0.6572	0.6566	0.6211	0.2287
KEEL glass6	0.9231	0.9108	0.9236	0.9027	0.8998
KEEL haberman	0.6103	0.5949	0.5935	0.6083	0.5936
KEEL iris0	0.9816	0.9858	1.0000	0.9899	1.0000
KEEL led7digit-0-2-4-5-6-	0.8842	0.8967	0.8935	0.8790	0.8740
KEEL new-thyroid1	0.9387	0.9453	0.9413	0.9398	0.9655
KEEL new-thyroid2	0.9442	0.9525	0.9532	0.9506	0.9830
KEEL page-blocks-1-3_vs_4	0.9523	0.9842	0.9571	0.9453	0.9344
KEEL pima	0.7435	0.7434	0.7443	0.7403	0.7470
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	0.9999	0.9959
KEEL shuttle-c2-vs-c4	1.0000	0.9633	0.9633	0.8816	0.8843
KEEL vehicle0	0.9344	0.9407	0.9371	0.9432	0.9681
KEEL vehicle1	0.6945	0.7033	0.6908	0.6934	0.7290
KEEL vehicle2	0.9577	0.9745	0.9621	0.9745	0.9775
KEEL vehicle3	0.6774	0.6760	0.6605	0.6714	0.7094
KEEL vowel0	0.9458	0.9461	0.9457	0.9598	0.9834
KEEL wisconsin	0.9612	0.9655	0.9685	0.9704	0.9789
KEEL yeast-0-2-5-6_vs_3-7	0.6680	0.6718	0.6822	0.6737	0.7249
KEEL yeast-0-2-5-7-9_vs_3	0.8425	0.8459	0.8400	0.8427	0.8783
KEEL yeast-0-3-5-9_vs_7-8	0.4824	0.4788	0.4894	0.4509	0.4508
KEEL yeast-0-5-6-7-9_vs_4	0.6525	0.6359	0.6521	0.6398	0.6165
KEEL yeast-1-2-8-9_vs_7	0.3097	0.3016	0.2543	0.2570	0.1070
KEEL yeast-1-4-5-8_vs_7	0.0000	0.0256	0.0000	0.0000	0.0000
KEEL yeast-1_vs_7	0.4581	0.4580	0.4651	0.3884	0.3489
KEEL yeast-2_vs_4	0.8713	0.8654	0.8785	0.8680	0.8628
KEEL yeast-2_vs_8	0.5581	0.5214	0.5826	0.4876	0.3931
KEEL yeast1	0.7058	0.7076	0.7037	0.7024	0.7136
KEEL yeast3	0.8933	0.8895	0.8907	0.8839	0.8689
KEEL yeast4	0.5165	0.5128	0.5087	0.4845	0.4623
KEEL yeast5	0.8495	0.8469	0.8411	0.8322	0.8309
KEEL yeast6	0.6532	0.6563	0.6699	0.6368	0.6185

Table 25: AUC for Ba-SM ensembles, HDDT and KEEL datasets.

Dataset	Ba-SM	O+ Ba-SM	DN+ Ba-SM	RFW+ Ba-SM	RF+ Ba-SM
HDDT PhosS	0.7468	0.7572	0.7471	0.7414	0.7401
HDDT boundary	0.6811	0.6909	0.6867	0.7125	0.6941
HDDT breast-y	0.6503	0.6581	0.6582	0.6508	0.6605
HDDT cam	0.7613	0.7703	0.7625	0.7738	0.7868
HDDT compustat	0.9148	0.9190	0.9155	0.9151	0.9220
HDDT covtype	0.9933	0.9941	0.9938	0.9939	0.9952
HDDT credit-g	0.7671	0.7758	0.7707	0.7780	0.7870
HDDT estate	0.6106	0.6127	0.6125	0.6152	0.6214
HDDT german-numer	0.7778	0.7781	0.7780	0.7816	0.7829
HDDT heart-v	0.6964	0.7058	0.7098	0.7013	0.7051
HDDT hypo	0.9899	0.9906	0.9901	0.9918	0.9929
HDDT ism	0.9444	0.9441	0.9451	0.9460	0.9461
HDDT letter	0.9994	0.9996	0.9996	0.9998	0.9998
HDDT oil	0.9193	0.9316	0.9207	0.9253	0.9308
HDDT optdigits	0.9964	0.9994	0.9998	0.9999	0.9998
HDDT page	0.9912	0.9918	0.9917	0.9917	0.9920
HDDT pendigits	0.9994	0.9999	0.9998	0.9999	0.9999
HDDT phoneme	0.9412	0.9442	0.9448	0.9440	0.9462
HDDT satimage	0.9526	0.9545	0.9536	0.9552	0.9576
HDDT segment	0.9973	0.9995	0.9996	0.9996	0.9999
KEEL abalone19	0.7836	0.7836	0.7870	0.7853	0.8008
KEEL abalone9-18	0.8278	0.8253	0.8292	0.8346	0.9016
KEEL cleveland-0_vs_4	0.9560	0.9724	0.9668	0.9666	0.9558
KEEL ecoli-0-1-3-7_vs_2-6	0.8716	0.9237	0.9141	0.9424	0.9392
KEEL ecoli-0-1-4-6_vs_5	0.9697	0.9779	0.9809	0.9878	0.9811
KEEL ecoli-0-1-4-7_vs_2-3	0.9395	0.9402	0.9395	0.9434	0.9339
KEEL ecoli-0-1-4-7_vs_5-6	0.9564	0.9700	0.9695	0.9690	0.9689
KEEL ecoli-0-1_vs_2-3-5	0.9618	0.9644	0.9610	0.9640	0.9641
KEEL ecoli-0-1_vs_5	0.9675	0.9750	0.9782	0.9839	0.9855
KEEL ecoli-0-2-3-4_vs_5	0.9667	0.9829	0.9785	0.9862	0.9823
KEEL ecoli-0-2-6-7_vs_3-5	0.9298	0.9465	0.9414	0.9422	0.9499
KEEL ecoli-0-3-4-6_vs_5	0.9511	0.9749	0.9730	0.9836	0.9780
KEEL ecoli-0-3-4-7_vs_5-6	0.9391	0.9588	0.9569	0.9586	0.9601
KEEL ecoli-0-3-4_vs_5	0.9491	0.9762	0.9747	0.9854	0.9791
KEEL ecoli-0-4-6_vs_5	0.9665	0.9786	0.9786	0.9849	0.9782
KEEL ecoli-0-6-7_vs_3-5	0.9315	0.9500	0.9363	0.9409	0.9446
KEEL ecoli-0-6-7_vs_5	0.9609	0.9655	0.9641	0.9721	0.9596
KEEL ecoli-0_vs_1	0.9842	0.9944	0.9922	0.9906	0.9956
KEEL ecoli1	0.9545	0.9523	0.9562	0.9556	0.9558
KEEL ecoli2	0.9469	0.9546	0.9625	0.9592	0.9560
KEEL ecoli3	0.9312	0.9423	0.9392	0.9366	0.9449
KEEL ecoli4	0.9498	0.9841	0.9864	0.9822	0.9922
KEEL glass-0-1-2-3_vs_4-5	0.9659	0.9774	0.9762	0.9768	0.9837
KEEL glass-0-1-4-6_vs_2	0.7531	0.7219	0.7751	0.7678	0.8125
KEEL glass-0-1-5_vs_2	0.7383	0.7185	0.7405	0.7463	0.8143
KEEL glass-0-1-6_vs_2	0.7367	0.7414	0.7598	0.7560	0.8202
KEEL glass-0-1-6_vs_5	0.9940	0.9953	0.9964	0.9935	0.9930
KEEL glass-0-4_vs_5	0.9940	0.9995	1.0000	1.0000	0.9943
KEEL glass-0-6_vs_5	0.9897	0.9983	0.9980	0.9964	0.9939
KEEL glass0	0.8706	0.8844	0.8861	0.8833	0.8954
KEEL glass1	0.8297	0.8457	0.8490	0.8384	0.8497
KEEL glass2	0.7965	0.7716	0.8079	0.7921	0.8606
KEEL glass4	0.9278	0.9674	0.9576	0.9577	0.9786
KEEL glass5	0.9902	0.9927	0.9940	0.9950	0.9935
KEEL glass6	0.9496	0.9670	0.9550	0.9606	0.9694
KEEL haberman	0.7095	0.7040	0.6964	0.7055	0.6952
KEEL iris0	0.9880	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9606	0.9653	0.9645	0.9627	0.9605
KEEL new-thyroid1	0.9929	0.9964	0.9955	0.9976	0.9991
KEEL new-thyroid2	0.9910	0.9962	0.9955	0.9970	0.9991
KEEL page-blocks-1-3_vs_4	0.9993	0.9995	0.9995	0.9998	0.9999
KEEL pima	0.8170	0.8219	0.8178	0.8193	0.8285
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9893	0.9906	0.9900	0.9911	0.9954
KEEL vehicle1	0.8516	0.8546	0.8489	0.8525	0.8793
KEEL vehicle2	0.9924	0.9968	0.9929	0.9966	0.9978
KEEL vehicle3	0.8418	0.8471	0.8407	0.8439	0.8613
KEEL vowel0	0.9969	0.9971	0.9971	0.9974	0.9995
KEEL wisconsin	0.9915	0.9935	0.9934	0.9923	0.9928
KEEL yeast-0-2-5-6_vs_3-7	0.8525	0.8517	0.8514	0.8485	0.8554
KEEL yeast-0-2-5-7-9_vs_3	0.9416	0.9433	0.9435	0.9489	0.9490
KEEL yeast-0-3-5-9_vs_7-8	0.7559	0.7603	0.7593	0.7570	0.7595
KEEL yeast-0-5-6-7-9_vs_4	0.8934	0.8926	0.8976	0.8893	0.8914
KEEL yeast-1-2-8-9_vs_7	0.7543	0.7663	0.7566	0.7613	0.7718
KEEL yeast-1-4-5-8_vs_7	0.6615	0.6787	0.6664	0.6726	0.6879
KEEL yeast-1_vs_7	0.8074	0.8179	0.8120	0.8085	0.8171
KEEL yeast-2_vs_4	0.9813	0.9826	0.9834	0.9799	0.9811
KEEL yeast-2_vs_8	0.8142	0.8230	0.8098	0.8293	0.7918
KEEL yeast1	0.7953	0.8007	0.7979	0.7982	0.8086
KEEL yeast3	0.9727	0.9745	0.9739	0.9722	0.9752
KEEL yeast4	0.9378	0.9402	0.9404	0.9353	0.9341
KEEL yeast5	0.9829	0.9907	0.9902	0.9893	0.9910
KEEL yeast6	0.9083	0.9147	0.9196	0.9261	0.9317

Table 26: F-measure for Ba-SM ensembles, HDDT and KEEL datasets.

Dataset	Ba-SM	O+ Ba-SM	DN+ Ba-SM	RFW+ Ba-SM	RF+ Ba-SM
HDDT PhosS	0.0279	0.0159	0.0265	0.0000	0.0032
HDDT boundary	0.0552	0.0476	0.0554	0.0063	0.0063
HDDT breast-y	0.4064	0.4121	0.4084	0.3977	0.4153
HDDT cam	0.1163	0.1095	0.1185	0.1022	0.1063
HDDT compustat	0.3980	0.4057	0.4010	0.3897	0.4111
HDDT covtype	0.8774	0.8818	0.8803	0.8805	0.8737
HDDT credit-g	0.5495	0.5538	0.5466	0.5414	0.5491
HDDT estate	0.1970	0.1911	0.1959	0.1963	0.2009
HDDT german-numer	0.5485	0.5449	0.5484	0.5304	0.5755
HDDT heart-v	0.4116	0.4145	0.4115	0.4066	0.4066
HDDT hypo	0.8896	0.8870	0.8949	0.8696	0.8774
HDDT ism	0.6399	0.6420	0.6437	0.6480	0.6033
HDDT letter	0.9489	0.9575	0.9521	0.9491	0.9698
HDDT oil	0.5226	0.5579	0.5361	0.4954	0.5446
HDDT optdigits	0.9824	0.9866	0.9858	0.9907	0.9909
HDDT page	0.8640	0.8708	0.8662	0.8681	0.8580
HDDT pendigits	0.9725	0.9816	0.9789	0.9819	0.9887
HDDT phoneme	0.8004	0.8031	0.8057	0.8031	0.8007
HDDT satimage	0.6575	0.6626	0.6597	0.6587	0.6635
HDDT segment	0.9738	0.9761	0.9741	0.9779	0.9902
KEEL abalone19	0.0400	0.0610	0.0452	0.0400	0.0626
KEEL abalone9-18	0.3505	0.3600	0.3506	0.3541	0.4885
KEEL cleveland-0_vs_4	0.5455	0.6023	0.5822	0.5177	0.5275
KEEL ecoli-0-1-3-7_vs_2-6	0.5705	0.6464	0.6619	0.4110	0.5043
KEEL ecoli-0-1-4-6_vs_5	0.7745	0.7858	0.7966	0.7828	0.7977
KEEL ecoli-0-1-4-7_vs_2-3	0.7001	0.7284	0.7441	0.7269	0.7262
KEEL ecoli-0-1-4-7_vs_5-6	0.7327	0.7391	0.7539	0.7266	0.7792
KEEL ecoli-0-1_vs_2-3-5	0.7494	0.7543	0.7325	0.7438	0.7628
KEEL ecoli-0-1_vs_5	0.7227	0.7568	0.7418	0.7695	0.8112
KEEL ecoli-0-2-3-4_vs_5	0.7666	0.8192	0.7907	0.8208	0.8032
KEEL ecoli-0-2-6-7_vs_3-5	0.3868	0.7753	0.7849	0.7712	0.7633
KEEL ecoli-0-3-4-6_vs_5	0.7828	0.7858	0.8075	0.8103	0.8173
KEEL ecoli-0-3-4-7_vs_5-6	0.7275	0.7927	0.7687	0.7310	0.7545
KEEL ecoli-0-3-4_vs_5	0.7486	0.7908	0.7700	0.7916	0.7975
KEEL ecoli-0-4-6_vs_5	0.7266	0.7951	0.8145	0.7959	0.8064
KEEL ecoli-0-6-7_vs_3-5	0.7198	0.7518	0.7455	0.7167	0.7560
KEEL ecoli-0-6-7_vs_5	0.8217	0.8152	0.8231	0.8045	0.7992
KEEL ecoli-0_vs_1	0.9753	0.9703	0.9753	0.9728	0.9683
KEEL ecoli1	0.7932	0.7876	0.7881	0.7899	0.7962
KEEL ecoli2	0.8052	0.8228	0.8231	0.8194	0.8422
KEEL ecoli3	0.6286	0.6265	0.6340	0.6182	0.6504
KEEL ecoli4	0.7327	0.7945	0.7778	0.7435	0.8386
KEEL glass-0-1-2-3_vs_4-5	0.8553	0.8623	0.8683	0.8582	0.8801
KEEL glass-0-1-4-6_vs_2	0.2128	0.2246	0.2425	0.1954	0.2620
KEEL glass-0-1-5_vs_2	0.2266	0.1704	0.2180	0.1725	0.2909
KEEL glass-0-1-6_vs_2	0.1792	0.2125	0.1901	0.1733	0.2677
KEEL glass-0-1-6_vs_5	0.7670	0.8148	0.8271	0.6295	0.5987
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.8807	0.8730
KEEL glass-0-6_vs_5	0.8279	0.9013	0.9048	0.8473	0.7627
KEEL glass0	0.7281	0.7422	0.7360	0.7327	0.7007
KEEL glass1	0.6612	0.6772	0.6749	0.6734	0.6563
KEEL glass2	0.1634	0.1896	0.1867	0.1768	0.2864
KEEL glass4	0.5338	0.5598	0.5736	0.6020	0.5982
KEEL glass5	0.7658	0.7757	0.8026	0.6994	0.5912
KEEL glass6	0.8412	0.8533	0.8472	0.8679	0.8625
KEEL haberman	0.4920	0.4876	0.4603	0.4817	0.4681
KEEL iris0	0.9813	0.9855	1.0000	0.9918	1.0000
KEEL led7digit-0-2-4-5-6-	0.7825	0.7955	0.8018	0.7976	0.7986
KEEL new-thyroid1	0.9042	0.9225	0.9192	0.9313	0.9678
KEEL new-thyroid2	0.9164	0.9423	0.9314	0.9359	0.9716
KEEL page-blocks-1-3_vs_4	0.9325	0.9507	0.9357	0.9544	0.9560
KEEL pima	0.6628	0.6750	0.6685	0.6645	0.6698
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9600	0.8800	0.9257
KEEL vehicle0	0.8826	0.8926	0.8846	0.8956	0.9310
KEEL vehicle1	0.5907	0.5947	0.5814	0.5904	0.6398
KEEL vehicle2	0.9299	0.9542	0.9364	0.9592	0.9654
KEEL vehicle3	0.5739	0.5840	0.5654	0.5707	0.6037
KEEL vowel0	0.8996	0.9188	0.9075	0.9042	0.9619
KEEL wisconsin	0.9462	0.9543	0.9556	0.9575	0.9653
KEEL yeast-0-2-5-6_vs_3-7	0.6021	0.6227	0.6044	0.6049	0.6086
KEEL yeast-0-2-5-7-9_vs_3	0.7917	0.7937	0.7891	0.8046	0.7946
KEEL yeast-0-3-5-9_vs_7-8	0.3878	0.3850	0.3868	0.3579	0.3601
KEEL yeast-0-5-6-7-9_vs_4	0.5121	0.5403	0.5168	0.5228	0.5343
KEEL yeast-1-2-8-9_vs_7	0.1588	0.1654	0.1579	0.1650	0.1695
KEEL yeast-1-4-5-8_vs_7	0.0905	0.0988	0.1029	0.0627	0.1273
KEEL yeast-1_vs_7	0.2426	0.2652	0.2470	0.2570	0.3129
KEEL yeast-2_vs_4	0.7355	0.7405	0.7422	0.7391	0.7604
KEEL yeast-2_vs_8	0.6367	0.6367	0.6314	0.6375	0.4185
KEEL yeast1	0.5976	0.6011	0.6003	0.5990	0.6063
KEEL yeast3	0.7951	0.7922	0.7903	0.7927	0.7844
KEEL yeast4	0.4364	0.4503	0.4303	0.4257	0.4191
KEEL yeast5	0.7364	0.7428	0.7373	0.7449	0.7131
KEEL yeast6	0.5389	0.5393	0.5465	0.5581	0.5510

Dataset	Ba-SM	O+ Ba-SM	DN+ Ba-SM	RFW+ Ba-SM	RF+ Ba-SM
HDDT PhosS	0.0882	0.0567	0.0911	0.0000	0.0213
HDDT boundary	0.1658	0.1426	0.1668	0.0256	0.0254
HDDT breast-y	0.5472	0.5512	0.5480	0.5390	0.5501
HDDT cam	0.2648	0.2563	0.2673	0.2463	0.2507
HDDT compustat	0.6874	0.6901	0.6874	0.6743	0.7421
HDDT covtype	0.9471	0.9487	0.9470	0.9470	0.9580
HDDT credit-g	0.6625	0.6640	0.6590	0.6500	0.6557
HDDT estate	0.4219	0.4144	0.4198	0.4188	0.4329
HDDT german-numer	0.6591	0.6573	0.6610	0.6393	0.6856
HDDT heart-v	0.5558	0.5545	0.5504	0.5502	0.5394
HDDT hypo	0.9532	0.9523	0.9554	0.9415	0.9512
HDDT ism	0.8668	0.8677	0.8707	0.8545	0.8819
HDDT letter	0.9596	0.9619	0.9607	0.9538	0.9743
HDDT oil	0.6696	0.7025	0.6798	0.6197	0.6985
HDDT optdigits	0.9887	0.9904	0.9892	0.9920	0.9921
HDDT page	0.9520	0.9544	0.9529	0.9518	0.9533
HDDT pendigits	0.9815	0.9870	0.9853	0.9864	0.9924
HDDT phoneme	0.8702	0.8725	0.8727	0.8730	0.8712
HDDT satimage	0.8093	0.8117	0.8097	0.8061	0.8455
HDDT segment	0.9867	0.9876	0.9868	0.9877	0.9915
KEEL abalone19	0.1495	0.2097	0.1598	0.1247	0.2925
KEEL abalone9-18	0.5678	0.5612	0.5566	0.5543	0.6957
KEEL cleveland-0_vs_4	0.6210	0.6757	0.6682	0.5872	0.6051
KEEL ecoli-0-1-3-7_vs_2-6	0.7404	0.8108	0.8136	0.5523	0.6242
KEEL ecoli-0-1-4-6_vs_5	0.8479	0.8532	0.8591	0.8476	0.8540
KEEL ecoli-0-1-4-7_vs_2-3	0.8128	0.8341	0.8318	0.8196	0.8338
KEEL ecoli-0-1-4-7_vs_5-6	0.8204	0.8143	0.8347	0.8004	0.8541
KEEL ecoli-0-1_vs_2-3-5	0.8698	0.8595	0.8476	0.8458	0.8615
KEEL ecoli-0-1_vs_5	0.8204	0.8339	0.8270	0.8192	0.8592
KEEL ecoli-0-2-3-4_vs_5	0.8721	0.8976	0.8761	0.8885	0.8850
KEEL ecoli-0-2-6-7_vs_3-5	0.8654	0.8664	0.8676	0.8613	0.8472
KEEL ecoli-0-3-4-6_vs_5	0.8709	0.8660	0.8695	0.8742	0.8649
KEEL ecoli-0-3-4-7_vs_5-6	0.8268	0.8706	0.8484	0.8059	0.8474
KEEL ecoli-0-3-4_vs_5	0.8359	0.8658	0.8479	0.8509	0.8618
KEEL ecoli-0-4-6_vs_5	0.8293	0.8805	0.8680	0.8659	0.8768
KEEL ecoli-0-6-7_vs_3-5	0.8364	0.8504	0.8449	0.8218	0.8422
KEEL ecoli-0-6-7_vs_5	0.9113	0.9055	0.9113	0.8851	0.8845
KEEL ecoli-0_vs_1	0.9807	0.9779	0.9807	0.9793	0.9746
KEEL ecoli1	0.8825	0.8794	0.8819	0.8835	0.8871
KEEL ecoli2	0.8759	0.8830	0.8829	0.8738	0.8951
KEEL ecoli3	0.8184	0.8149	0.8106	0.8047	0.8270
KEEL ecoli4	0.8366	0.8758	0.8505	0.8149	0.8954
KEEL glass-0-1-2-3_vs_4-5	0.9109	0.9150	0.9199	0.9125	0.9294
KEEL glass-0-1-4-6_vs_2	0.3461	0.3569	0.3744	0.3114	0.4109
KEEL glass-0-1-5_vs_2	0.3941	0.3039	0.3709	0.3016	0.4876
KEEL glass-0-1-6_vs_2	0.3438	0.3646	0.3548	0.3168	0.4179
KEEL glass-0-1-6_vs_5	0.9017	0.9418	0.9211	0.7117	0.6935
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9301	0.8954
KEEL glass-0-6_vs_5	0.8940	0.9501	0.9303	0.8883	0.7938
KEEL glass0	0.7984	0.8120	0.8063	0.8030	0.7762
KEEL glass1	0.7294	0.7439	0.7417	0.7380	0.7265
KEEL glass2	0.3009	0.3420	0.3642	0.3083	0.4565
KEEL glass4	0.7331	0.7209	0.7473	0.7298	0.7318
KEEL glass5	0.9457	0.9336	0.9580	0.7668	0.6643
KEEL glass6	0.9206	0.9225	0.9216	0.9192	0.9152
KEEL haberman	0.6431	0.6391	0.6136	0.6340	0.6219
KEEL iris0	0.9816	0.9857	1.0000	0.9919	1.0000
KEEL led7digit-0-2-4-5-6-	0.9020	0.9036	0.9043	0.9061	0.8960
KEEL new-thyroid1	0.9359	0.9493	0.9484	0.9461	0.9774
KEEL new-thyroid2	0.9484	0.9585	0.9540	0.9525	0.9830
KEEL page-blocks-1-3_vs_4	0.9634	0.9797	0.9636	0.9693	0.9833
KEEL pima	0.7380	0.7479	0.7426	0.7391	0.7443
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9633	0.8816	0.9441
KEEL vehicle0	0.9331	0.9399	0.9337	0.9431	0.9689
KEEL vehicle1	0.7219	0.7256	0.7112	0.7201	0.7668
KEEL vehicle2	0.9572	0.9728	0.9619	0.9751	0.9782
KEEL vehicle3	0.7058	0.7162	0.6966	0.7043	0.7398
KEEL vowel0	0.9654	0.9709	0.9706	0.9630	0.9920
KEEL wisconsin	0.9597	0.9662	0.9677	0.9700	0.9777
KEEL yeast-0-2-5-6_vs_3-7	0.7569	0.7738	0.7615	0.7489	0.7731
KEEL yeast-0-2-5-7-9_vs_3	0.9019	0.9040	0.9024	0.9028	0.8968
KEEL yeast-0-3-5-9_vs_7-8	0.5839	0.5812	0.5825	0.5434	0.5720
KEEL yeast-0-5-6-7-9_vs_4	0.7126	0.7354	0.7124	0.7155	0.7360
KEEL yeast-1-2-8-9_vs_7	0.3573	0.3648	0.3586	0.3373	0.4059
KEEL yeast-1-4-5-8_vs_7	0.2246	0.2387	0.2429	0.1590	0.3459
KEEL yeast-1_vs_7	0.4677	0.4882	0.4661	0.4662	0.5832
KEEL yeast-2_vs_4	0.8925	0.8932	0.8899	0.8898	0.8856
KEEL yeast-2_vs_8	0.7338	0.7338	0.7337	0.7220	0.5624
KEEL yeast1	0.7114	0.7145	0.7127	0.7114	0.7199
KEEL yeast3	0.9173	0.9136	0.9122	0.9088	0.9005
KEEL yeast4	0.7091	0.7259	0.7088	0.6908	0.7250
KEEL yeast5	0.9112	0.9095	0.9090	0.9045	0.9061
KEEL yeast6	0.7628	0.7633	0.7632	0.7491	0.7822

Table 27: G-mean for Ba-SM ensembles, HDDT and KEEL datasets.

Table 28: AUC for Ba-RUS ensembles, HDDT and KEEL datasets.

Dataset	Ba-RUS	O+ Ba-RUS	DN+ Ba-RUS	RFW+ Ba-RUS	RF+ Ba-RUS	Dataset	Ba-RUS	O+ Ba-RUS	DN+ Ba-RUS	RFW+ Ba-RUS	RF+ Ba-RUS
HDDT PhosS	0.7611	0.7684	0.7625	0.7660	0.7701	KEEL glass-0-1-2-3_vs_4-5	0.9657	0.9783	0.9747	0.9747	0.9825
HDDT boundary	0.7351	0.7344	0.7341	0.7415	0.7471	KEEL glass-0-1-4-6_vs_2	0.7102	0.6958	0.7448	0.7116	0.8163
HDDT breast-y	0.6745	0.6827	0.6828	0.6747	0.6845	KEEL glass-0-1-5_vs_2	0.6551	0.6649	0.7284	0.6741	0.7765
HDDT cam	0.7889	0.7998	0.7909	0.8056	0.8080	KEEL glass-0-1-6_vs_2	0.6405	0.6930	0.7624	0.6696	0.8307
HDDT compustat	0.8848	0.8902	0.8937	0.8862	0.8938	KEEL glass-0-1-6_vs_5	0.9811	0.9826	0.9840	0.9721	0.9571
HDDT covtype	0.9900	0.9909	0.9908	0.9902	0.9918	KEEL glass-0-4_vs_5	0.9972	0.9975	0.9941	0.9976	0.9911
HDDT credit-g	0.7643	0.7750	0.7706	0.7774	0.7886	KEEL glass-0-6_vs_5	0.9877	0.9900	0.9873	0.9818	0.9456
HDDT estate	0.6511	0.6519	0.6515	0.6509	0.6594	KEEL glass0	0.8698	0.8832	0.8795	0.8795	0.8863
HDDT german-numer	0.7800	0.7805	0.7784	0.7795	0.7903	KEEL glass1	0.8181	0.8456	0.8474	0.8258	0.8415
HDDT heart-v	0.6882	0.7037	0.7067	0.6937	0.7028	KEEL glass2	0.7180	0.7130	0.8006	0.7371	0.8233
HDDT hypo	0.9894	0.9902	0.9886	0.9917	0.9934	KEEL glass4	0.8880	0.9353	0.9502	0.9122	0.9586
HDDT ism	0.9405	0.9445	0.9449	0.9430	0.9464	KEEL glass5	0.9757	0.9821	0.9839	0.9702	0.9492
HDDT letter	0.9987	0.9989	0.9989	0.9991	0.9988	KEEL glass6	0.9500	0.9663	0.9599	0.9537	0.9677
HDDT oil	0.9139	0.9224	0.9157	0.9104	0.9147	KEEL haberman	0.7175	0.7166	0.7110	0.7173	0.7090
HDDT optdigits	0.9978	0.9992	0.9993	0.9996	0.9995	KEEL iris0	0.9880	1.0000	1.0000	1.0000	1.0000
HDDT page	0.9902	0.9907	0.9904	0.9906	0.9914	KEEL led7digit-0-2-4-5-6-	0.9569	0.9624	0.9633	0.9638	0.9605
HDDT pendigits	0.9986	0.9997	0.9995	0.9997	0.9998	KEEL new-thyroid1	0.9939	0.9967	0.9966	0.9977	0.9980
HDDT phoneme	0.9343	0.9375	0.9402	0.9368	0.9382	KEEL new-thyroid2	0.9940	0.9959	0.9964	0.9963	0.9991
HDDT satimage	0.9468	0.9482	0.9484	0.9491	0.9486	KEEL page-blocks-1-3_vs_4	0.9973	0.9954	0.9969	0.9962	0.9911
HDDT segment	0.9990	0.9993	0.9994	0.9994	0.9998	KEEL pima	0.8226	0.8252	0.8234	0.8224	0.8318
KEEL abalone19	0.7970	0.7885	0.7937	0.7944	0.8512	KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL abalone9-18	0.7896	0.7838	0.7996	0.7919	0.9155	KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL cleveland-0_vs_4	0.9298	0.9642	0.9601	0.9458	0.9468	KEEL vehicle0	0.9890	0.9906	0.9894	0.9903	0.9953
KEEL ecoli-0-1-3-7_vs_2-6	0.9547	0.9608	0.9459	0.9612	0.9419	KEEL vehicle1	0.8475	0.8522	0.8445	0.8482	0.8805
KEEL ecoli-0-1-4-6_vs_5	0.9574	0.9718	0.9778	0.9695	0.9712	KEEL vehicle2	0.9923	0.9962	0.9929	0.9959	0.9973
KEEL ecoli-0-1-4-7_vs_2-3	0.9254	0.9346	0.9407	0.9343	0.9254	KEEL vehicle3	0.8382	0.8475	0.8361	0.8442	0.8629
KEEL ecoli-0-1-4-7_vs_5-6	0.9427	0.9593	0.9620	0.9545	0.9572	KEEL vowel0	0.9916	0.9917	0.9926	0.9937	0.9974
KEEL ecoli-0-1_vs_2-3-5	0.9381	0.9528	0.9505	0.9447	0.9501	KEEL wisconsin	0.9912	0.9933	0.9934	0.9926	0.9931
KEEL ecoli-0-1_vs_5	0.9584	0.9745	0.9805	0.9741	0.9815	KEEL yeast-0-2-5-6_vs_3-7	0.8615	0.8576	0.8627	0.8598	0.8563
KEEL ecoli-0-2-3-4_vs_5	0.9720	0.9801	0.9841	0.9805	0.9764	KEEL yeast-0-2-5-7-9_vs_3	0.9419	0.9395	0.9471	0.9433	0.9380
KEEL ecoli-0-2-6-7_vs_3-5	0.9232	0.9365	0.9354	0.9273	0.9365	KEEL yeast-0-3-5-9_vs_7-8	0.7751	0.7744	0.7748	0.7730	0.7663
KEEL ecoli-0-3-4-6_vs_5	0.9604	0.9716	0.9717	0.9758	0.9732	KEEL yeast-0-5-6-7-9_vs_4	0.8844	0.8822	0.8896	0.8798	0.8765
KEEL ecoli-0-3-4-7_vs_5-6	0.9383	0.9559	0.9641	0.9532	0.9502	KEEL yeast-1-2-8-9_vs_7	0.7704	0.7768	0.7868	0.7694	0.7885
KEEL ecoli-0-3-4_vs_5	0.9608	0.9740	0.9797	0.9738	0.9731	KEEL yeast-1-4-5-8_vs_7	0.6734	0.6814	0.6917	0.6780	0.7021
KEEL ecoli-0-4-6_vs_5	0.9692	0.9735	0.9797	0.9790	0.9717	KEEL yeast-1_vs_7	0.8139	0.8334	0.8374	0.8149	0.8353
KEEL ecoli-0-6-7_vs_3-5	0.9308	0.9399	0.9465	0.9338	0.9380	KEEL yeast-2_vs_4	0.9780	0.9800	0.9810	0.9772	0.9756
KEEL ecoli-0-6-7_vs_5	0.9652	0.9653	0.9639	0.9704	0.9630	KEEL yeast-2_vs_8	0.8176	0.8293	0.8051	0.8114	0.7600
KEEL ecoli-0_vs_1	0.9912	0.9951	0.9945	0.9930	0.9947	KEEL yeast1	0.7997	0.8030	0.8029	0.8010	0.8089
KEEL ecoli1	0.9594	0.9560	0.9597	0.9580	0.9542	KEEL yeast3	0.9729	0.9740	0.9733	0.9729	0.9767
KEEL ecoli2	0.9436	0.9549	0.9623	0.9554	0.9483	KEEL yeast4	0.9336	0.9318	0.9353	0.9310	0.9190
KEEL ecoli3	0.9353	0.9437	0.9433	0.9390	0.9450	KEEL yeast5	0.9907	0.9912	0.9909	0.9915	0.9887
KEEL ecoli4	0.9709	0.9896	0.9920	0.9808	0.9939	KEEL yeast6	0.9326	0.9300	0.9356	0.9367	0.9368

Table 29: F-measure for Ba-RUS ensembles, HDDT and KEEL datasets.

Dataset	Ba-RUS	O+ Ba-RUS	DN+ Ba-RUS	RFW+ Ba-RUS	RF+ Ba-RUS
HDDT PhosS	0.2190	0.2340	0.2218	0.2224	0.2368
HDDT boundary	0.1395	0.1506	0.1424	0.1419	0.1554
HDDT breast-y	0.4876	0.4998	0.4930	0.4919	0.4878
HDDT cam	0.2831	0.2875	0.2800	0.2864	0.2805
HDDT compustat	0.2451	0.2568	0.2609	0.2544	0.2605
HDDT covtype	0.7331	0.7448	0.7448	0.7521	0.7614
HDDT credit-g	0.5744	0.5818	0.5756	0.5836	0.5957
HDDT estate	0.2714	0.2697	0.2654	0.2692	0.2782
HDDT german-numer	0.5963	0.5950	0.5956	0.6024	0.6068
HDDT heart-v	0.4397	0.4734	0.4641	0.4513	0.4464
HDDT hypo	0.7451	0.7511	0.7464	0.7613	0.7610
HDDT ism	0.3835	0.3948	0.4056	0.3931	0.4243
HDDT letter	0.8394	0.8747	0.8587	0.9076	0.8852
HDDT oil	0.3108	0.3442	0.3169	0.3332	0.3590
HDDT optdigits	0.9531	0.9637	0.9637	0.9817	0.9840
HDDT page	0.8110	0.8029	0.8044	0.8085	0.7997
HDDT pendigits	0.9424	0.9674	0.9592	0.9714	0.9776
HDDT phoneme	0.7820	0.7847	0.7915	0.7848	0.7768
HDDT satimage	0.5762	0.5778	0.5812	0.5820	0.5801
HDDT segment	0.9406	0.9546	0.9464	0.9692	0.9899
KEEL abalone19	0.0390	0.0369	0.0382	0.0389	0.0509
KEEL abalone9-18	0.2721	0.2844	0.2782	0.2839	0.4384
KEEL cleveland-0_vs_4	0.5330	0.5948	0.5970	0.5718	0.6012
KEEL ecoli-0-1-3-7_vs_2-6	0.2593	0.2853	0.3411	0.2826	0.2746
KEEL ecoli-0-1-4-6_vs_5	0.5971	0.6538	0.7175	0.6412	0.6791
KEEL ecoli-0-1-4-7_vs_2-3	0.5756	0.6087	0.6561	0.6065	0.6105
KEEL ecoli-0-1-4-7_vs_5-6	0.5417	0.6099	0.6211	0.5776	0.6250
KEEL ecoli-0-1_vs_2-3-5	0.5898	0.6230	0.6919	0.6215	0.7107
KEEL ecoli-0-1_vs_5	0.5651	0.6918	0.7433	0.6808	0.7501
KEEL ecoli-0-2-3-4_vs_5	0.6431	0.7213	0.7655	0.6736	0.7789
KEEL ecoli-0-2-6-7_vs_3-5	0.6554	0.6554	0.6909	0.6598	0.6639
KEEL ecoli-0-3-4-6_vs_5	0.6093	0.6739	0.7274	0.6737	0.7558
KEEL ecoli-0-3-4-7_vs_5-6	0.5786	0.6564	0.7159	0.6482	0.6528
KEEL ecoli-0-3-4_vs_5	0.6373	0.7406	0.7652	0.7088	0.7603
KEEL ecoli-0-4-6_vs_5	0.6205	0.6534	0.7466	0.6666	0.7230
KEEL ecoli-0-6-7_vs_3-5	0.6621	0.6471	0.6680	0.6547	0.6564
KEEL ecoli-0-6-7_vs_5	0.6700	0.6824	0.7200	0.6929	0.7002
KEEL ecoli-0_vs_1	0.9655	0.9606	0.9704	0.9655	0.9684
KEEL ecoli1	0.7834	0.7795	0.7813	0.7883	0.7652
KEEL ecoli2	0.7067	0.7415	0.7614	0.7454	0.8018
KEEL ecoli3	0.5776	0.5845	0.5870	0.5678	0.6048
KEEL ecoli4	0.5517	0.6556	0.7202	0.6061	0.8054
KEEL glass-0-1-2-3_vs_4-5	0.8242	0.8331	0.8348	0.8380	0.8656
KEEL glass-0-1-4-6_vs_2	0.2128	0.2244	0.2753	0.2400	0.3747
KEEL glass-0-1-5_vs_2	0.2307	0.2389	0.2933	0.2362	0.3393
KEEL glass-0-1-6_vs_2	0.2159	0.2505	0.2730	0.2501	0.3689
KEEL glass-0-1-6_vs_5	0.4820	0.4540	0.4575	0.4399	0.3788
KEEL glass-0-4_vs_5	0.9505	0.9505	0.8451	0.9160	0.7299
KEEL glass-0-6_vs_5	0.5576	0.6377	0.7916	0.5795	0.4847
KEEL glass0	0.7094	0.7173	0.7162	0.7209	0.7060
KEEL glass1	0.6772	0.6800	0.6858	0.6791	0.6607
KEEL glass2	0.2113	0.2255	0.3123	0.2474	0.3387
KEEL glass4	0.4110	0.5014	0.5457	0.4545	0.5454
KEEL glass5	0.4689	0.4478	0.3708	0.4542	0.3308
KEEL glass6	0.7673	0.7977	0.8064	0.8100	0.7848
KEEL haberman	0.5019	0.5080	0.4967	0.4964	0.4957
KEEL iris0	0.9813	0.9833	1.0000	0.9980	1.0000
KEEL led7digit-0-2-4-5-6-	0.6205	0.6275	0.6250	0.6409	0.7032
KEEL new-thyroid1	0.8528	0.9085	0.8931	0.9297	0.9747
KEEL new-thyroid2	0.8668	0.9014	0.9081	0.9094	0.9677
KEEL page-blocks-1-3_vs_4	0.5064	0.5086	0.6459	0.5247	0.5907
KEEL pima	0.6724	0.6757	0.6741	0.6742	0.6731
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8800	0.9600	1.0000	0.9800	0.9600
KEEL vehicle0	0.8726	0.8745	0.8716	0.8718	0.9220
KEEL vehicle1	0.6225	0.6293	0.6114	0.6224	0.6556
KEEL vehicle2	0.9193	0.9404	0.9161	0.9348	0.9552
KEEL vehicle3	0.6034	0.6109	0.6068	0.6096	0.6406
KEEL vowel0	0.7962	0.7960	0.8066	0.8434	0.8093
KEEL wisconsin	0.9511	0.9532	0.9588	0.9610	0.9654
KEEL yeast-0-2-5-6_vs_3-7	0.5546	0.5670	0.5612	0.5577	0.5624
KEEL yeast-0-2-5-7-9_vs_3	0.7360	0.7495	0.7415	0.7448	0.7508
KEEL yeast-0-3-5-9_vs_7-8	0.3778	0.3809	0.3859	0.3760	0.3638
KEEL yeast-0-5-6-7-9_vs_4	0.4870	0.4829	0.4789	0.4736	0.4776
KEEL yeast-1-2-8-9_vs_7	0.1583	0.1793	0.1986	0.1641	0.1823
KEEL yeast-1-4-5-8_vs_7	0.1427	0.1609	0.1523	0.1474	0.1670
KEEL yeast-1_vs_7	0.3116	0.3406	0.3453	0.3153	0.3606
KEEL yeast-2_vs_4	0.6978	0.7081	0.7221	0.6932	0.7229
KEEL yeast-2_vs_8	0.4412	0.4391	0.5060	0.4529	0.2699
KEEL yeast1	0.6027	0.6006	0.6054	0.6086	0.6134
KEEL yeast3	0.7641	0.7724	0.7682	0.7630	0.7535
KEEL yeast4	0.2820	0.2868	0.3025	0.2917	0.2900
KEEL yeast5	0.4627	0.4572	0.4645	0.4893	0.5012
KEEL yeast6	0.2675	0.2736	0.2876	0.2946	0.3299

Dataset	Ba-RUS	O+ Ba-RUS	DN+ Ba-RUS	RFW+ Ba-RUS	RF+ Ba-RUS
HDDT PhosS	0.7011	0.6899	0.7031	0.7109	0.6856
HDDT boundary	0.6570	0.6368	0.6559	0.6601	0.6214
HDDT breast-y	0.6188	0.6287	0.6233	0.6230	0.6201
HDDT cam	0.6714	0.6816	0.6723	0.6773	0.6905
HDDT compustat	0.8057	0.8105	0.8130	0.8053	0.8151
HDDT covtype	0.9518	0.9547	0.9541	0.9546	0.9584
HDDT credit-g	0.6913	0.6973	0.6921	0.6988	0.7087
HDDT estate	0.5949	0.5900	0.5785	0.5916	0.6027
HDDT german-numer	0.7097	0.7087	0.7091	0.7142	0.7179
HDDT heart-v	0.6043	0.6319	0.6226	0.6136	0.6090
HDDT hypo	0.9594	0.9612	0.9601	0.9664	0.9689
HDDT ism	0.8943	0.8991	0.8996	0.8947	0.8952
HDDT letter	0.9796	0.9823	0.9815	0.9827	0.9777
HDDT oil	0.8279	0.8278	0.8262	0.8293	0.8125
HDDT optdigits	0.9869	0.9893	0.9883	0.9927	0.9929
HDDT page	0.9560	0.9575	0.9565	0.9594	0.9558
HDDT pendigits	0.9791	0.9882	0.9865	0.9889	0.9923
HDDT phoneme	0.8644	0.8665	0.8698	0.8665	0.8629
HDDT satimage	0.8667	0.8702	0.8707	0.8720	0.8738
HDDT segment	0.9821	0.9848	0.9834	0.9875	0.9912
KEEL abalone19	0.7332	0.7161	0.7079	0.7268	0.7466
KEEL abalone9-18	0.7110	0.7269	0.7041	0.7189	0.8034
KEEL cleveland-0-vs-4	0.8347	0.8798	0.8690	0.8555	0.8231
KEEL ecoli-0-1-3-7_vs_2-6	0.7992	0.8443	0.8274	0.8093	0.8559
KEEL ecoli-0-1-4-6_vs_5	0.8652	0.8930	0.8913	0.8904	0.8677
KEEL ecoli-0-1-4-7_vs_2-3	0.8379	0.8590	0.8706	0.8520	0.8466
KEEL ecoli-0-1-4-7_vs_5-6	0.8410	0.8721	0.8802	0.8543	0.8689
KEEL ecoli-0-1_vs_2-3-5	0.8512	0.8815	0.8814	0.8700	0.8781
KEEL ecoli-0-1_vs_5	0.8565	0.8937	0.8965	0.8999	0.8978
KEEL ecoli-0-2-3-4_vs_5	0.8890	0.9073	0.9081	0.9038	0.9010
KEEL ecoli-0-2-6-7_vs_3-5	0.8599	0.8616	0.8538	0.8550	0.8439
KEEL ecoli-0-3-4-6_vs_5	0.8618	0.8889	0.8850	0.8874	0.8853
KEEL ecoli-0-3-4-7_vs_5-6	0.8355	0.8927	0.8987	0.8673	0.8598
KEEL ecoli-0-3-4_vs_5	0.8589	0.9092	0.8953	0.8947	0.8720
KEEL ecoli-0-4-6_vs_5	0.8708	0.8800	0.8919	0.8923	0.8791
KEEL ecoli-0-6-7_vs_3-5	0.8508	0.8459	0.8457	0.8524	0.8413
KEEL ecoli-0-6-7_vs_5	0.8916	0.9026	0.8830	0.9009	0.8805
KEEL ecoli-0_vs_1	0.9751	0.9723	0.9779	0.9751	0.9747
KEEL ecoli1	0.8937	0.8905	0.8913	0.8987	0.8814
KEEL ecoli2	0.8814	0.8912	0.8997	0.8906	0.9116
KEEL ecoli3	0.8791	0.8924	0.8908	0.8800	0.8924
KEEL ecoli4	0.8894	0.9366	0.9398	0.9175	0.9463

Dataset	Ba-RUS	O+ Ba-RUS	DN+ Ba-RUS	RFW+ Ba-RUS	RF+ Ba-RUS
KEEL glass-0-1-2-3_vs_4-5	0.9091	0.9089	0.9137	0.9133	0.9335
KEEL glass-0-1-4-6_vs_2	0.5885	0.5954	0.6737	0.6273	0.7202
KEEL glass-0-1-5_vs_2	0.5806	0.5811	0.6599	0.5731	0.6672
KEEL glass-0-1-6_vs_2	0.5732	0.6186	0.6451	0.6134	0.6856
KEEL glass-0-1-6_vs_5	0.9410	0.9336	0.9254	0.9286	0.8917
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9765	0.9687	0.9330
KEEL glass-0-6_vs_5	0.9186	0.9205	0.9368	0.9144	0.8177
KEEL glass0	0.7891	0.7952	0.7943	0.7979	0.7860
KEEL glass1	0.7457	0.7473	0.7525	0.7467	0.7302
KEEL glass2	0.5851	0.6009	0.7296	0.6249	0.7196
KEEL glass4	0.8300	0.8433	0.8497	0.8358	0.8771
KEEL glass5	0.9473	0.9347	0.9036	0.9447	0.8519
KEEL glass6	0.9052	0.9132	0.9152	0.9195	0.9022
KEEL haberman	0.6521	0.6578	0.6491	0.6473	0.6461
KEEL iris0	0.9816	0.9837	1.0000	0.9980	1.0000
KEEL led7digit-0-2-4-5-6-	0.8782	0.8873	0.8865	0.8957	0.8974
KEEL new-thyroid1	0.9416	0.9619	0.9517	0.9690	0.9926
KEEL new-thyroid2	0.9508	0.9621	0.9654	0.9627	0.9933
KEEL page-blocks-1-3_vs_4	0.9316	0.9334	0.9620	0.9377	0.9533
KEEL pima	0.7454	0.7484	0.7475	0.7465	0.7467
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8816	0.9633	1.0000	0.9816	0.9633
KEEL vehicle0	0.9434	0.9466	0.9433	0.9437	0.9695
KEEL vehicle1	0.7628	0.7681	0.7519	0.7618	0.7888
KEEL vehicle2	0.9591	0.9710	0.9581	0.9696	0.9763
KEEL vehicle3	0.7490	0.7548	0.7505	0.7542	0.7821
KEEL vowel0	0.9542	0.9430	0.9557	0.9628	0.9739
KEEL wisconsin	0.9646	0.9661	0.9710	0.9735	0.9782
KEEL yeast-0-2-5-6_vs_3-7	0.7954	0.8017	0.8013	0.7934	0.7869
KEEL yeast-0-2-5-7-9_vs_3	0.9084	0.9132	0.9119	0.9055	0.8914
KEEL yeast-0-3-5-9_vs_7-8	0.6860	0.6963	0.6967	0.6893	0.6873
KEEL yeast-0-5-6-7-9_vs_4	0.7904	0.7972	0.7873	0.7786	0.7791
KEEL yeast-1-2-8-9_vs_7	0.6632	0.6916	0.7227	0.6800	0.7057
KEEL yeast-1-4-5-8_vs_7	0.6184	0.6411	0.6164	0.6244	0.6326
KEEL yeast-1_vs_7	0.7222	0.7445	0.7552	0.7245	0.7490
KEEL yeast-2_vs_4	0.9184	0.9076	0.9156	0.9191	0.8970
KEEL yeast-2_vs_8	0.7241	0.7220	0.7457	0.7245	0.6452
KEEL yeast1	0.7217	0.7196	0.7233	0.7265	0.7301
KEEL yeast3	0.9306	0.9313	0.9338	0.9299	0.9271
KEEL yeast4	0.8467	0.8420	0.8443	0.8501	0.8297
KEEL yeast5	0.9597	0.9630	0.9621	0.9614	0.9670
KEEL yeast6	0.8771	0.8768	0.8807	0.8814	0.8710

Table 30: G-mean for Ba-RUS ensembles, HDDT and KEEL datasets.

Table 31: AUC for Ba-RB ensembles, HDDT and KEEL datasets.

Dataset	Ba-RB	O+ Ba-RB	DN+ Ba-RB	RFW+ Ba-RB	RF+ Ba-RB
HDDT PhosS	0.7560	0.7546	0.7558	0.7467	0.7585
HDDT boundary	0.6996	0.7097	0.7008	0.7205	0.6907
HDDT breast-y	0.6621	0.6778	0.6732	0.6612	0.6751
HDDT cam	0.7715	0.7828	0.7740	0.7826	0.7953
HDDT compustat	0.9090	0.9137	0.9136	0.9107	0.9158
HDDT covtype	0.9933	0.9936	0.9935	0.9933	0.9945
HDDT credit-g	0.7729	0.7809	0.7752	0.7821	0.7846
HDDT estate	0.6256	0.6268	0.6251	0.6269	0.6370
HDDT german-numer	0.7859	0.7855	0.7829	0.7857	0.7860
HDDT heart-v	0.7122	0.7160	0.7163	0.7166	0.7176
HDDT hypo	0.9903	0.9908	0.9910	0.9927	0.9931
HDDT ism	0.9417	0.9419	0.9412	0.9433	0.9451
HDDT letter	0.9996	0.9996	0.9995	0.9997	0.9997
HDDT oil	0.9145	0.9292	0.9187	0.9219	0.9278
HDDT optdigits	0.9981	0.9992	0.9992	0.9998	0.9996
HDDT page	0.9921	0.9920	0.9922	0.9921	0.9923
HDDT pendigits	0.9996	0.9998	0.9998	0.9998	0.9999
HDDT phoneme	0.9388	0.9412	0.9430	0.9412	0.9426
HDDT satimage	0.9509	0.9525	0.9530	0.9530	0.9547
HDDT segment	0.9990	0.9995	0.9995	0.9996	0.9999
KEEL abalone19	0.7823	0.7827	0.7817	0.7823	0.8088
KEEL abalone9-18	0.8178	0.8202	0.8200	0.8273	0.8987
KEEL cleveland-0_vs_4	0.9565	0.9664	0.9627	0.9609	0.9594
KEEL ecoli-0-1-3-7_vs_2-6	0.9341	0.9328	0.9358	0.9333	0.9491
KEEL ecoli-0-1-4-6_vs_5	0.9738	0.9797	0.9797	0.9847	0.9785
KEEL ecoli-0-1-4-7_vs_2-3	0.9381	0.9425	0.9395	0.9417	0.9361
KEEL ecoli-0-1-4-7_vs_5-6	0.9597	0.9662	0.9682	0.9674	0.9673
KEEL ecoli-0-1_vs_2-3-5	0.9526	0.9569	0.9562	0.9529	0.9597
KEEL ecoli-0-1_vs_5	0.9708	0.9785	0.9764	0.9822	0.9815
KEEL ecoli-0-2-3-4_vs_5	0.9784	0.9815	0.9808	0.9862	0.9824
KEEL ecoli-0-2-6-7_vs_3-5	0.9285	0.9392	0.9380	0.9363	0.9460
KEEL ecoli-0-3-4-6_vs_5	0.9723	0.9758	0.9751	0.9845	0.9749
KEEL ecoli-0-3-4-7_vs_5-6	0.9512	0.9607	0.9577	0.9596	0.9596
KEEL ecoli-0-3-4_vs_5	0.9692	0.9794	0.9756	0.9848	0.9750
KEEL ecoli-0-4-6_vs_5	0.9761	0.9797	0.9797	0.9829	0.9742
KEEL ecoli-0-6-7_vs_3-5	0.9292	0.9453	0.9394	0.9440	0.9480
KEEL ecoli-0-6-7_vs_5	0.9647	0.9693	0.9662	0.9722	0.9628
KEEL ecoli-0_vs_1	0.9930	0.9949	0.9954	0.9946	0.9963
KEEL ecoli1	0.9577	0.9563	0.9598	0.9588	0.9551
KEEL ecoli2	0.9475	0.9526	0.9603	0.9545	0.9516
KEEL ecoli3	0.9379	0.9429	0.9402	0.9391	0.9485
KEEL ecoli4	0.9739	0.9845	0.9859	0.9827	0.9920

Dataset	Ba-RB	O+ Ba-RB	DN+ Ba-RB	RFW+ Ba-RB	RF+ Ba-RB
KEEL glass-0-1-2-3_vs_4-5	0.9725	0.9787	0.9782	0.9719	0.9825
KEEL glass-0-1-4-6_vs_2	0.7509	0.7407	0.7530	0.7551	0.8184
KEEL glass-0-1-5_vs_2	0.7161	0.7048	0.7374	0.7300	0.7998
KEEL glass-0-1-6_vs_2	0.7151	0.7448	0.7369	0.7452	0.8211
KEEL glass-0-1-6_vs_5	0.9925	0.9955	0.9965	0.9936	0.9869
KEEL glass-0-4_vs_5	0.9982	0.9985	1.0000	1.0000	0.9941
KEEL glass-0-6_vs_5	0.9925	0.9992	0.9984	0.9980	0.9904
KEEL glass0	0.8671	0.8772	0.8832	0.8780	0.8835
KEEL glass1	0.8225	0.8409	0.8466	0.8308	0.8478
KEEL glass2	0.7705	0.7537	0.7930	0.7863	0.8476
KEEL glass4	0.9253	0.9609	0.9576	0.9542	0.9728
KEEL glass5	0.9889	0.9937	0.9954	0.9953	0.9911
KEEL glass6	0.9528	0.9645	0.9593	0.9582	0.9717
KEEL haberman	0.7130	0.7109	0.7080	0.7112	0.7053
KEEL iris0	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9630	0.9659	0.9636	0.9605	0.9605
KEEL new-thyroid1	0.9941	0.9963	0.9956	0.9977	0.9992
KEEL new-thyroid2	0.9951	0.9972	0.9968	0.9973	0.9993
KEEL page-blocks-1-3_vs_4	0.9995	0.9997	0.9996	0.9997	0.9990
KEEL pima	0.8225	0.8261	0.8228	0.8246	0.8294
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9900	0.9908	0.9908	0.9916	0.9959
KEEL vehicle1	0.8489	0.8514	0.8465	0.8474	0.8742
KEEL vehicle2	0.9943	0.9968	0.9950	0.9963	0.9978
KEEL vehicle3	0.8457	0.8490	0.8439	0.8456	0.8634
KEEL vowel0	0.9963	0.9961	0.9966	0.9969	0.9991
KEEL wisconsin	0.9919	0.9927	0.9937	0.9927	0.9935
KEEL yeast-0-2-5-6_vs_3-7	0.8499	0.8532	0.8538	0.8513	0.8536
KEEL yeast-0-2-5-7-9_vs_3	0.9445	0.9474	0.9448	0.9471	0.9461
KEEL yeast-0-3-5-9_vs_7-8	0.7634	0.7692	0.7697	0.7648	0.7572
KEEL yeast-0-5-6-7-9_vs_4	0.8950	0.8946	0.8990	0.8917	0.8904
KEEL yeast-1-2-8-9_vs_7	0.7615	0.7773	0.7712	0.7670	0.7797
KEEL yeast-1-4-5-8_vs_7	0.6592	0.6707	0.6689	0.6732	0.6832
KEEL yeast-1_vs_7	0.8217	0.8373	0.8265	0.8199	0.8266
KEEL yeast-2_vs_4	0.9815	0.9820	0.9837	0.9814	0.9781
KEEL yeast-2_vs_8	0.8259	0.8395	0.8266	0.8330	0.7910
KEEL yeast1	0.7991	0.8031	0.8027	0.8001	0.8086
KEEL yeast3	0.9743	0.9746	0.9745	0.9740	0.9764
KEEL yeast4	0.9377	0.9404	0.9393	0.9357	0.9327
KEEL yeast5	0.9905	0.9907	0.9904	0.9904	0.9913
KEEL yeast6	0.9251	0.9234	0.9282	0.9325	0.9381

Table 32: F-measure for Ba-RB ensembles, HDDT and KEEL datasets.

Dataset	Ba-RB	O+ Ba-RB	DN+ Ba-RB	RFW+ Ba-RB	RF+ Ba-RB
HDDT PhosS	0.0798	0.0553	0.0785	0.0096	0.0312
HDDT boundary	0.0860	0.0756	0.0901	0.0211	0.0243
HDDT breast-y	0.4645	0.4712	0.4798	0.4678	0.4513
HDDT cam	0.1784	0.1751	0.1787	0.1694	0.1740
HDDT compustat	0.3632	0.3760	0.3720	0.3575	0.3631
HDDT covtype	0.8619	0.8614	0.8637	0.8616	0.8529
HDDT credit-g	0.5769	0.5882	0.5798	0.5869	0.5968
HDDT estate	0.2288	0.2296	0.2220	0.2319	0.2366
HDDT german-numer	0.5988	0.6048	0.5945	0.6021	0.6042
HDDT heart-v	0.4415	0.4427	0.4227	0.4160	0.4142
HDDT hypo	0.8876	0.8886	0.8925	0.8782	0.8724
HDDT ism	0.5896	0.5965	0.5959	0.6027	0.5617
HDDT letter	0.9603	0.9649	0.9611	0.9569	0.9677
HDDT oil	0.5288	0.5766	0.5371	0.5570	0.5670
HDDT optdigits	0.9807	0.9879	0.9859	0.9898	0.9916
HDDT page	0.8631	0.8637	0.8659	0.8631	0.8545
HDDT pendigits	0.9772	0.9823	0.9817	0.9825	0.9856
HDDT phoneme	0.7936	0.7963	0.8012	0.7978	0.7911
HDDT satimage	0.6416	0.6482	0.6529	0.6480	0.6435
HDDT segment	0.9747	0.9783	0.9759	0.9770	0.9908
KEEL abalone19	0.0472	0.0541	0.0581	0.0613	0.0815
KEEL abalone9-18	0.3482	0.3591	0.3660	0.3957	0.4956
KEEL cleveland-0_vs_4	0.5776	0.6679	0.6084	0.6071	0.5941
KEEL ecoli-0-1-3-7_vs_2-6	0.6651	0.6639	0.6584	0.5805	0.5631
KEEL ecoli-0-1-4-6_vs_5	0.7604	0.8019	0.7940	0.7751	0.7817
KEEL ecoli-0-1-4-7_vs_2-3	0.6903	0.7232	0.7275	0.7174	0.7274
KEEL ecoli-0-1-4-7_vs_5-6	0.7274	0.7503	0.7714	0.7282	0.7670
KEEL ecoli-0-1_vs_2-3-5	0.7061	0.7306	0.7331	0.7619	0.7663
KEEL ecoli-0-1_vs_5	0.7076	0.7933	0.7707	0.7592	0.8155
KEEL ecoli-0-2-3-4_vs_5	0.7686	0.7843	0.8011	0.7969	0.8011
KEEL ecoli-0-2-6-7_vs_3-5	0.7584	0.7693	0.7775	0.7706	0.7541
KEEL ecoli-0-3-4-6_vs_5	0.7682	0.7657	0.8095	0.8103	0.8024
KEEL ecoli-0-3-4-7_vs_5-6	0.7295	0.7807	0.7744	0.7502	0.7378
KEEL ecoli-0-3-4_vs_5	0.7762	0.7982	0.8140	0.8255	0.7697
KEEL ecoli-0-4-6_vs_5	0.7534	0.8036	0.8352	0.8234	0.8048
KEEL ecoli-0-6-7_vs_3-5	0.7278	0.7577	0.7470	0.7408	0.7489
KEEL ecoli-0-6-7_vs_5	0.7849	0.7978	0.7924	0.8080	0.7899
KEEL ecoli-0_vs_1	0.9716	0.9630	0.9716	0.9704	0.9696
KEEL ecoli1	0.7788	0.7800	0.7831	0.7854	0.7770
KEEL ecoli2	0.7950	0.8109	0.8221	0.8190	0.8224
KEEL ecoli3	0.6208	0.6308	0.6381	0.6317	0.6583
KEEL ecoli4	0.7076	0.7854	0.7747	0.7700	0.8346
KEEL glass-0-1-2-3_vs_4-5	0.8475	0.8536	0.8574	0.8504	0.8771
KEEL glass-0-1-4-6_vs_2	0.1538	0.1735	0.2061	0.1657	0.2741
KEEL glass-0-1-5_vs_2	0.1967	0.1832	0.2003	0.1736	0.2390
KEEL glass-0-1-6_vs_2	0.1933	0.1928	0.2012	0.1742	0.2874
KEEL glass-0-1-6_vs_5	0.7960	0.8076	0.8286	0.7536	0.6262
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.9394	0.8818
KEEL glass-0-6_vs_5	0.8346	0.9013	0.9300	0.8008	0.7357
KEEL glass0	0.7231	0.7340	0.7305	0.7268	0.6990
KEEL glass1	0.6632	0.6640	0.6796	0.6593	0.6636
KEEL glass2	0.1538	0.2052	0.2470	0.2041	0.3101
KEEL glass4	0.5651	0.5617	0.5801	0.6083	0.5971
KEEL glass5	0.7446	0.7695	0.7683	0.7416	0.5671
KEEL glass6	0.8271	0.8386	0.8354	0.8447	0.8350
KEEL haberman	0.5033	0.4911	0.4737	0.5049	0.4621
KEEL iris0	0.9813	0.9813	1.0000	0.9897	1.0000
KEEL led7digit-0-2-4-5-6-	0.7850	0.7887	0.7861	0.7896	0.8083
KEEL new-thyroid1	0.9164	0.9254	0.9260	0.9299	0.9741
KEEL new-thyroid2	0.9044	0.9345	0.9365	0.9337	0.9749
KEEL page-blocks-1-3_vs_4	0.9318	0.9024	0.9360	0.9539	0.9242
KEEL pima	0.6704	0.6754	0.6732	0.6753	0.6650
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9600	0.8800	0.9800
KEEL vehicle0	0.8828	0.8865	0.8888	0.8895	0.9317
KEEL vehicle1	0.6070	0.6062	0.6032	0.6075	0.6368
KEEL vehicle2	0.9399	0.9529	0.9405	0.9493	0.9629
KEEL vehicle3	0.5855	0.5964	0.5833	0.5862	0.6223
KEEL vowel0	0.8819	0.8930	0.8873	0.8951	0.9096
KEEL wisconsin	0.9506	0.9541	0.9582	0.9597	0.9661
KEEL yeast-0-2-5-6_vs_3-7	0.5948	0.6052	0.6112	0.5925	0.6239
KEEL yeast-0-2-5-7-9_vs_3	0.7781	0.7805	0.7781	0.7763	0.7860
KEEL yeast-0-3-5-9_vs_7-8	0.3959	0.4055	0.3878	0.3966	0.3749
KEEL yeast-0-5-6-7-9_vs_4	0.5188	0.5444	0.5249	0.5268	0.5470
KEEL yeast-1-2-8-9_vs_7	0.1852	0.2304	0.1892	0.1881	0.2098
KEEL yeast-1-4-5-8_vs_7	0.1404	0.1366	0.1429	0.1267	0.1547
KEEL yeast-1_vs_7	0.3030	0.3276	0.3508	0.3161	0.3738
KEEL yeast-2_vs_4	0.7461	0.7439	0.7490	0.7360	0.7483
KEEL yeast-2_vs_8	0.6317	0.6178	0.6139	0.6075	0.4278
KEEL yeast1	0.6057	0.6074	0.6070	0.6003	0.6081
KEEL yeast3	0.7849	0.7824	0.7857	0.7845	0.7815
KEEL yeast4	0.4131	0.4118	0.4111	0.4123	0.3991
KEEL yeast5	0.7350	0.7395	0.7359	0.7373	0.6997
KEEL yeast6	0.4955	0.5071	0.5047	0.5177	0.5374

Dataset	Ba-RB	O+ Ba-RB	DN+ Ba-RB	RFW+ Ba-RB	RF+ Ba-RB
HDDT PhosS	0.2061	0.1660	0.2044	0.0531	0.1181
HDDT boundary	0.2292	0.2031	0.2341	0.0816	0.0869
HDDT breast-y	0.5999	0.6048	0.6116	0.6015	0.5867
HDDT cam	0.3444	0.3406	0.3448	0.3318	0.3382
HDDT compustat	0.7444	0.7545	0.7459	0.7303	0.7728
HDDT covtype	0.9549	0.9547	0.9543	0.9532	0.9603
HDDT credit-g	0.6924	0.7015	0.6946	0.6992	0.7085
HDDT estate	0.4989	0.5006	0.4865	0.5030	0.5216
HDDT german-numer	0.7119	0.7169	0.7083	0.7141	0.7165
HDDT heart-v	0.5854	0.5838	0.5663	0.5593	0.5564
HDDT hypo	0.9608	0.9609	0.9604	0.9596	0.9599
HDDT ism	0.8815	0.8810	0.8786	0.8789	0.8891
HDDT letter	0.9694	0.9708	0.9681	0.9630	0.9746
HDDT oil	0.7123	0.7531	0.7203	0.7081	0.7429
HDDT optdigits	0.9900	0.9919	0.9913	0.9924	0.9934
HDDT page	0.9559	0.9580	0.9568	0.9578	0.9559
HDDT pendigits	0.9857	0.9889	0.9886	0.9877	0.9913
HDDT phoneme	0.8676	0.8698	0.8713	0.8711	0.8678
HDDT satimage	0.8352	0.8391	0.8403	0.8390	0.8588
HDDT segment	0.9879	0.9887	0.9883	0.9873	0.9919
KEEL abalone19	0.2193	0.2297	0.2399	0.2198	0.3689
KEEL abalone9-18	0.5961	0.5898	0.6073	0.6218	0.7109
KEEL cleveland-0-vs_4	0.6885	0.7766	0.7135	0.7055	0.7010
KEEL ecoli-0-1-3-7_vs_2-6	0.8266	0.8266	0.8262	0.7300	0.7161
KEEL ecoli-0-1-4-6_vs_5	0.8520	0.8799	0.8647	0.8473	0.8528
KEEL ecoli-0-1-4-7_vs_2-3	0.8185	0.8518	0.8413	0.8332	0.8513
KEEL ecoli-0-1-4-7_vs_5-6	0.8223	0.8465	0.8579	0.8191	0.8649
KEEL ecoli-0-1_vs_2-3-5	0.8623	0.8639	0.8631	0.8831	0.8636
KEEL ecoli-0-1_vs_5	0.8329	0.8936	0.8660	0.8491	0.8859
KEEL ecoli-0-2-3-4_vs_5	0.8915	0.8884	0.8950	0.8907	0.8844
KEEL ecoli-0-2-6-7_vs_3-5	0.8645	0.8660	0.8668	0.8619	0.8458
KEEL ecoli-0-3-4-6_vs_5	0.8786	0.8780	0.8840	0.8839	0.8576
KEEL ecoli-0-3-4-7_vs_5-6	0.8481	0.8737	0.8652	0.8456	0.8493
KEEL ecoli-0-3-4_vs_5	0.8636	0.8811	0.8882	0.8844	0.8484
KEEL ecoli-0-4-6_vs_5	0.8667	0.8920	0.9011	0.8891	0.8715
KEEL ecoli-0-6-7_vs_3-5	0.8518	0.8559	0.8545	0.8491	0.8359
KEEL ecoli-0-6-7_vs_5	0.9066	0.9081	0.9076	0.9095	0.8837
KEEL ecoli-0_vs_1	0.9785	0.9737	0.9785	0.9779	0.9752
KEEL ecoli1	0.8830	0.8865	0.8863	0.8908	0.8856
KEEL ecoli2	0.8870	0.8969	0.8993	0.8922	0.8977
KEEL ecoli3	0.8393	0.8548	0.8592	0.8502	0.8681
KEEL ecoli4	0.8394	0.9105	0.8842	0.8683	0.9053

Dataset	Ba-RB	O+ Ba-RB	DN+ Ba-RB	RFW+ Ba-RB	RF+ Ba-RB
KEEL glass-0-1-2-3_vs_4-5	0.9143	0.9166	0.9208	0.9132	0.9356
KEEL glass-0-1-4-6_vs_2	0.2946	0.3217	0.3543	0.3071	0.4115
KEEL glass-0-1-5_vs_2	0.3379	0.3259	0.3409	0.3020	0.4048
KEEL glass-0-1-6_vs_2	0.3709	0.3615	0.3662	0.3406	0.4436
KEEL glass-0-1-6_vs_5	0.9669	0.9675	0.9663	0.8819	0.7268
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9834	0.9084
KEEL glass-0-6_vs_5	0.8948	0.9501	0.9529	0.8591	0.7724
KEEL glass0	0.7977	0.8071	0.8046	0.8004	0.7780
KEEL glass1	0.7321	0.7321	0.7444	0.7290	0.7322
KEEL glass2	0.3087	0.3731	0.4543	0.3744	0.5205
KEEL glass4	0.7707	0.7632	0.7798	0.7653	0.7681
KEEL glass5	0.9744	0.9764	0.9639	0.8967	0.6585
KEEL glass6	0.9204	0.9199	0.9215	0.9150	0.9156
KEEL haberman	0.6517	0.6409	0.6250	0.6523	0.6119
KEEL iris0	0.9816	0.9816	1.0000	0.9899	1.0000
KEEL led7digit-0-2-4-5-6-	0.9023	0.9028	0.9025	0.8999	0.9050
KEEL new-thyroid1	0.9454	0.9523	0.9548	0.9528	0.9855
KEEL new-thyroid2	0.9475	0.9570	0.9549	0.9520	0.9881
KEEL page-blocks-1-3_vs_4	0.9815	0.9859	0.9853	0.9828	0.9878
KEEL pima	0.7441	0.7482	0.7465	0.7482	0.7400
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	0.9633	0.8816	0.9816
KEEL vehicle0	0.9432	0.9455	0.9473	0.9481	0.9714
KEEL vehicle1	0.7409	0.7399	0.7356	0.7404	0.7669
KEEL vehicle2	0.9661	0.9743	0.9668	0.9718	0.9776
KEEL vehicle3	0.7259	0.7305	0.7197	0.7241	0.7573
KEEL vowel0	0.9707	0.9680	0.9734	0.9694	0.9868
KEEL wisconsin	0.9637	0.9668	0.9704	0.9720	0.9781
KEEL yeast-0-2-5-6_vs_3-7	0.7667	0.7726	0.7765	0.7548	0.7828
KEEL yeast-0-2-5-7-9_vs_3	0.8978	0.8975	0.9006	0.8857	0.8911
KEEL yeast-0-3-5-9_vs_7-8	0.6555	0.6603	0.6390	0.6404	0.6515
KEEL yeast-0-5-6-7-9_vs_4	0.7229	0.7446	0.7237	0.7243	0.7367
KEEL yeast-1-2-8-9_vs_7	0.4446	0.4973	0.4531	0.4490	0.5304
KEEL yeast-1-4-5-8_vs_7	0.3577	0.3475	0.3556	0.2951	0.3953
KEEL yeast-1_vs_7	0.5886	0.6014	0.6204	0.5925	0.6891
KEEL yeast-2_vs_4	0.9132	0.8953	0.9032	0.8958	0.8767
KEEL yeast-2_vs_8	0.7279	0.7328	0.7269	0.7088	0.5834
KEEL yeast1	0.7236	0.7245	0.7234	0.7187	0.7257
KEEL yeast3	0.9270	0.9219	0.9272	0.9228	0.9161
KEEL yeast4	0.7911	0.7929	0.7885	0.7756	0.7627
KEEL yeast5	0.9395	0.9445	0.9347	0.9257	0.9360
KEEL yeast6	0.7890	0.8136	0.8033	0.7905	0.8214

Table 33: G-mean for Ba-RB ensembles, HDDT and KEEL datasets.

Table 34: AUC for ABo1 ensembles, HDDT and KEEL datasets.

Dataset	ABo1	O+ ABo1	DN+ ABo1	RFW+ ABo1	RF+ ABo1	Dataset	ABo1	O+ ABo1	DN+ ABo1	RFW+ ABo1	RF+ ABo1
HDDT PhosS	0.7211	0.7042	0.7177	0.7179	0.7182	KEEL glass-0-1-2-3_vs_4-5	0.9683	0.9687	0.9667	0.9642	0.9767
HDDT boundary	0.7246	0.7190	0.7221	0.7274	0.7215	KEEL glass-0-1-4-6_vs_2	0.6906	0.7037	0.7121	0.7084	0.7635
HDDT breast-y	0.6283	0.6402	0.6309	0.6179	0.6343	KEEL glass-0-1-5_vs_2	0.6097	0.6608	0.7320	0.6394	0.7591
HDDT cam	0.7601	0.7633	0.7572	0.7641	0.7747	KEEL glass-0-1-6_vs_2	0.7076	0.6706	0.7071	0.6915	0.7630
HDDT compustat	0.9224	0.9260	0.9271	0.9161	0.9289	KEEL glass-0-1-6_vs_5	0.9781	0.8968	0.9776	0.9715	0.8816
HDDT covtype	0.9949	0.9946	0.9947	0.9942	0.9950	KEEL glass-0-4_vs_5	0.9940	0.9515	0.9952	0.9490	0.8795
HDDT credit-g	0.7593	0.7540	0.7578	0.7452	0.7645	KEEL glass-0-6_vs_5	0.9745	0.8845	0.8523	0.9391	0.9095
HDDT estate	0.5812	0.5813	0.5911	0.5845	0.5919	KEEL glass0	0.8742	0.8828	0.8834	0.8640	0.8833
HDDT german-numer	0.7575	0.7558	0.7624	0.7588	0.7690	KEEL glass1	0.8283	0.8649	0.8576	0.8178	0.8651
HDDT heart-v	0.6480	0.6635	0.6596	0.6404	0.6751	KEEL glass2	0.6928	0.7081	0.7251	0.7135	0.8692
HDDT hypo	0.9899	0.9908	0.9896	0.9898	0.9902	KEEL glass4	0.8673	0.9707	0.8936	0.9094	0.9165
HDDT ism	0.8672	0.8691	0.8711	0.8590	0.8685	KEEL glass5	0.9714	0.9620	0.9705	0.9715	0.9214
HDDT letter	0.9999	0.9999	0.9999	0.9999	0.9999	KEEL glass6	0.9637	0.9560	0.9475	0.9410	0.9547
HDDT oil	0.9212	0.9185	0.9113	0.9154	0.9040	KEEL haberman	0.6390	0.6612	0.6351	0.6406	0.6313
HDDT optdigits	1.0000	0.9993	0.9999	1.0000	0.9984	KEEL iris0	0.9820	0.9894	0.9940	0.9890	0.9860
HDDT page	0.9870	0.9880	0.9880	0.9858	0.9870	KEEL led7digit-0-2-4-5-6-	0.9578	0.9612	0.9623	0.9615	0.9534
HDDT pendigits	0.9997	0.9997	0.9997	0.9997	0.9998	KEEL new-thyroid1	0.9692	0.9737	0.9448	0.9683	0.9915
HDDT phoneme	0.9428	0.9432	0.9426	0.9423	0.9456	KEEL new-thyroid2	0.9734	0.9758	0.9705	0.9554	0.9589
HDDT satimage	0.9581	0.9595	0.9583	0.9585	0.9612	KEEL page-blocks-1-3_vs_4	0.9702	0.9497	0.9798	0.9558	0.9447
HDDT segment	0.9974	0.9991	0.9985	0.9998	0.9993	KEEL pima	0.7783	0.7898	0.7953	0.7882	0.8045
KEEL abalone19	0.6609	0.6534	0.6475	0.6747	0.7059	KEEL shuttle-c0-vs-c4	0.9996	0.9964	0.9996	0.9997	0.9917
KEEL abalone9-18	0.8070	0.7984	0.7998	0.7958	0.8884	KEEL shuttle-c2-vs-c4	0.9427	0.9588	0.9018	0.9432	0.9567
KEEL cleveland-0_vs_4	0.8840	0.9101	0.8949	0.9369	0.8566	KEEL vehicle0	0.9899	0.9903	0.9894	0.9897	0.9939
KEEL ecoli-0-1-3-7_vs_2-6	0.8624	0.8357	0.8442	0.8384	0.8318	KEEL vehicle1	0.8438	0.8464	0.8421	0.8462	0.8803
KEEL ecoli-0-1-4-6_vs_5	0.9497	0.9828	0.9574	0.9641	0.9460	KEEL vehicle2	0.9890	0.9925	0.9910	0.9951	0.9970
KEEL ecoli-0-1-4-7_vs_2-3	0.9199	0.9182	0.9335	0.9303	0.9316	KEEL vehicle3	0.8388	0.8396	0.8381	0.8401	0.8786
KEEL ecoli-0-1-4-7_vs_5-6	0.9282	0.9378	0.9184	0.9479	0.9569	KEEL vowel0	0.9849	0.9901	0.9887	0.9889	0.9998
KEEL ecoli-0-1_vs_2-3-5	0.9406	0.9328	0.9451	0.9430	0.9259	KEEL wisconsin	0.9858	0.9857	0.9862	0.9863	0.9849
KEEL ecoli-0-1_vs_5	0.9312	0.9225	0.9591	0.9326	0.9379	KEEL yeast-0-2-5-6_vs_3-7	0.8305	0.8401	0.8516	0.8303	0.8465
KEEL ecoli-0-2-3-4_vs_5	0.9183	0.9488	0.9479	0.9282	0.9083	KEEL yeast-0-2-5-7-9_vs_3	0.9454	0.9430	0.9449	0.9381	0.9448
KEEL ecoli-0-2-6-7_vs_3-5	0.9202	0.9354	0.9221	0.9224	0.9053	KEEL yeast-0-3-5-9_vs_7-8	0.7657	0.7677	0.7775	0.7720	0.7647
KEEL ecoli-0-3-4-6_vs_5	0.9431	0.9652	0.9226	0.9557	0.9305	KEEL yeast-0-5-6-7-9_vs_4	0.8741	0.8815	0.8810	0.8753	0.8835
KEEL ecoli-0-3-4-7_vs_5-6	0.9448	0.9588	0.9583	0.9644	0.9343	KEEL yeast-1-2-8-9_vs_7	0.7419	0.7362	0.7524	0.7419	0.7572
KEEL ecoli-0-3-4_vs_5	0.9574	0.9123	0.9565	0.9659	0.8950	KEEL yeast-1-4-5-8_vs_7	0.6720	0.6716	0.6728	0.6673	0.6727
KEEL ecoli-0-4-6_vs_5	0.9415	0.9558	0.9531	0.9660	0.9585	KEEL yeast-1_vs_7	0.7946	0.7902	0.7966	0.7973	0.7847
KEEL ecoli-0-6-7_vs_3-5	0.8781	0.9098	0.9001	0.9225	0.9145	KEEL yeast-2_vs_4	0.9619	0.9630	0.9653	0.9641	0.9763
KEEL ecoli-0-6-7_vs_5	0.9288	0.9398	0.9465	0.9445	0.9207	KEEL yeast-2_vs_8	0.8206	0.8446	0.8273	0.8764	0.8225
KEEL ecoli-0_vs_1	0.9823	0.9817	0.9859	0.9850	0.9687	KEEL yeast1	0.7564	0.7645	0.7703	0.7603	0.7782
KEEL ecoli1	0.9310	0.9355	0.9325	0.9324	0.9395	KEEL yeast3	0.9603	0.9628	0.9594	0.9595	0.9680
KEEL ecoli2	0.9506	0.9686	0.9696	0.9643	0.9625	KEEL yeast4	0.8974	0.9083	0.8967	0.8967	0.9147
KEEL ecoli3	0.9049	0.9117	0.9139	0.9155	0.9355	KEEL yeast5	0.9805	0.9863	0.9824	0.9823	0.9883
KEEL ecoli4	0.9508	0.9615	0.9379	0.9250	0.9441	KEEL yeast6	0.8852	0.8955	0.8911	0.8929	0.8965

Table 35: F-measure for ABo1 ensembles, HDDT and KEEL datasets.

Dataset	ABo1	O+ ABo1	DN+ ABo1	RFW+ ABo1	RF+ ABo1
HDDT PhosS	0.0013	0.0007	0.0006	0.0000	0.0007
HDDT boundary	0.0127	0.0063	0.0032	0.0096	0.0032
HDDT breast-y	0.4122	0.4042	0.4163	0.3894	0.4138
HDDT cam	0.0928	0.0786	0.0779	0.0628	0.0581
HDDT compustat	0.2309	0.2477	0.2549	0.1636	0.2294
HDDT covtype	0.8996	0.8976	0.8977	0.8866	0.8953
HDDT credit-g	0.5020	0.4804	0.4830	0.4780	0.4883
HDDT estate	0.0906	0.1020	0.1176	0.0856	0.1327
HDDT german-numer	0.5233	0.5116	0.5205	0.5133	0.5143
HDDT heart-v	0.3638	0.3631	0.3743	0.3520	0.3492
HDDT hypo	0.8937	0.8820	0.8875	0.8785	0.8778
HDDT ism	0.6404	0.6240	0.6209	0.6202	0.6353
HDDT letter	0.9738	0.9727	0.9732	0.9687	0.9628
HDDT oil	0.4427	0.4666	0.4562	0.4190	0.4480
HDDT optdigits	0.9929	0.9887	0.9940	0.9933	0.9873
HDDT page	0.8686	0.8582	0.8621	0.8558	0.8647
HDDT pendigits	0.9877	0.9886	0.9894	0.9869	0.9896
HDDT phoneme	0.8110	0.8130	0.8146	0.8100	0.8185
HDDT satimage	0.6690	0.6655	0.6730	0.6716	0.6507
HDDT segment	0.9834	0.9915	0.9915	0.9911	0.9903
KEEL abalone19	0.0118	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.3047	0.2662	0.2945	0.2396	0.4406
KEEL cleveland-0_vs_4	0.4372	0.5136	0.4806	0.5269	0.4255
KEEL ecoli-0-1-3-7_vs_2-6	0.4755	0.3702	0.3521	0.3300	0.3338
KEEL ecoli-0-1-4-6_vs_5	0.7474	0.7821	0.7903	0.8087	0.7710
KEEL ecoli-0-1-4-7_vs_2-3	0.6918	0.7253	0.7233	0.6813	0.7177
KEEL ecoli-0-1-4-7_vs_5-6	0.6764	0.7290	0.7082	0.6967	0.7827
KEEL ecoli-0-1_vs_2-3-5	0.7350	0.7760	0.7566	0.7272	0.7579
KEEL ecoli-0-1_vs_5	0.7453	0.7517	0.7701	0.7583	0.7939
KEEL ecoli-0-2-3-4_vs_5	0.7645	0.7847	0.8051	0.7558	0.7610
KEEL ecoli-0-2-6-7_vs_3-5	0.7459	0.7976	0.7713	0.7657	0.7136
KEEL ecoli-0-3-4-6_vs_5	0.7892	0.7837	0.7587	0.7590	0.7583
KEEL ecoli-0-3-4-7_vs_5-6	0.7844	0.8010	0.8145	0.8101	0.7578
KEEL ecoli-0-3-4_vs_5	0.7384	0.7281	0.7962	0.7815	0.7272
KEEL ecoli-0-4-6_vs_5	0.7234	0.7281	0.7254	0.7223	0.7247
KEEL ecoli-0-6-7_vs_3-5	0.7244	0.7488	0.7546	0.7368	0.7313
KEEL ecoli-0-6-7_vs_5	0.7992	0.7900	0.8020	0.7789	0.7861
KEEL ecoli-0_vs_1	0.9766	0.9618	0.9653	0.9702	0.9430
KEEL ecoli1	0.7492	0.7514	0.7537	0.7662	0.7764
KEEL ecoli2	0.8174	0.8346	0.8313	0.8140	0.8204
KEEL ecoli3	0.5242	0.5452	0.5089	0.4984	0.4904
KEEL ecoli4	0.7768	0.7761	0.7429	0.7243	0.8353
KEEL glass-0-1-2-3_vs_4-5	0.8547	0.8613	0.8449	0.8593	0.8600
KEEL glass-0-1-4-6_vs_2	0.2199	0.2069	0.1980	0.1851	0.1953
KEEL glass-0-1-5_vs_2	0.1302	0.0833	0.1212	0.0906	0.1273
KEEL glass-0-1-6_vs_2	0.1727	0.1683	0.2156	0.1390	0.1686
KEEL glass-0-1-6_vs_5	0.6681	0.6610	0.6929	0.6157	0.4423
KEEL glass-0-4_vs_5	0.9505	0.8413	0.9112	0.8711	0.7673
KEEL glass-0-6_vs_5	0.8413	0.5549	0.5581	0.8381	0.5719
KEEL glass0	0.7056	0.7269	0.7166	0.7144	0.6992
KEEL glass1	0.6778	0.7032	0.7249	0.6843	0.6860
KEEL glass2	0.1797	0.1506	0.1587	0.1395	0.1840
KEEL glass4	0.5206	0.5762	0.4666	0.5363	0.5477
KEEL glass5	0.8210	0.6766	0.5890	0.6221	0.3481
KEEL glass6	0.8433	0.8743	0.8035	0.8241	0.8306
KEEL haberman	0.2752	0.3821	0.3644	0.2755	0.2752
KEEL iris0	0.9813	0.9660	0.9938	0.9819	0.9856
KEEL led7digit-0-2-4-5-6-	0.7695	0.7670	0.7765	0.7714	0.7943
KEEL new-thyroid1	0.8917	0.8839	0.8770	0.8674	0.9152
KEEL new-thyroid2	0.8949	0.9210	0.8892	0.8849	0.9144
KEEL page-blocks-1-3_vs_4	0.9115	0.8732	0.9277	0.8687	0.7956
KEEL pima	0.5922	0.6031	0.6220	0.6088	0.6282
KEEL shuttle-c0-vs-c4	0.9943	0.9903	0.9943	0.9952	0.9893
KEEL shuttle-c2-vs-c4	0.7005	0.7683	0.6333	0.7929	0.8195
KEEL vehicle0	0.9389	0.9328	0.9317	0.9343	0.9599
KEEL vehicle1	0.5419	0.5463	0.5408	0.5359	0.5819
KEEL vehicle2	0.9495	0.9593	0.9555	0.9702	0.9765
KEEL vehicle3	0.5339	0.5187	0.5180	0.5224	0.5509
KEEL vowel0	0.9306	0.9383	0.9488	0.9552	0.9820
KEEL wisconsin	0.9500	0.9491	0.9559	0.9552	0.9558
KEEL yeast-0-2-5-6_vs_3-7	0.5633	0.5841	0.5915	0.5525	0.5824
KEEL yeast-0-2-5-7-9_vs_3	0.8053	0.8176	0.8058	0.8065	0.8295
KEEL yeast-0-3-5-9_vs_7-8	0.3257	0.3020	0.3525	0.3370	0.3105
KEEL yeast-0-5-6-7-9_vs_4	0.4785	0.4430	0.4629	0.4166	0.3797
KEEL yeast-1-2-8-9_vs_7	0.1875	0.1803	0.2005	0.1802	0.1890
KEEL yeast-1-4-5-8_vs_7	0.0427	0.0588	0.0223	0.0575	0.0000
KEEL yeast-1_vs_7	0.3549	0.3961	0.3414	0.2969	0.3153
KEEL yeast-2_vs_4	0.7320	0.7572	0.7428	0.7342	0.7829
KEEL yeast-2_vs_8	0.5731	0.5704	0.6230	0.5652	0.4766
KEEL yeast1	0.5151	0.5177	0.5169	0.5088	0.5291
KEEL yeast3	0.7458	0.7473	0.7538	0.7434	0.7473
KEEL yeast4	0.2417	0.2857	0.2491	0.2178	0.2727
KEEL yeast5	0.6706	0.6525	0.6710	0.6622	0.6656
KEEL yeast6	0.4250	0.4490	0.4380	0.3455	0.4445

Table 36: G-mean for ABo1 ensembles, HDDT and KEEL datasets.

Dataset	ABo1	O+ABo1	DN+ABo1	RFW+ABo1	RF+ABo1	Dataset	ABo1	O+ABo1	DN+ABo1	RFW+ABo1	RF+ABo1
HDDT PhosS	0.0081	0.0057	0.0057	0.0000	0.0057	KEEL glass-0-1-2-3_vs_4-5	0.8972	0.9012	0.8927	0.9003	0.9003
HDDT boundary	0.0509	0.0254	0.0127	0.0382	0.0127	KEEL glass-0-1-4-6_vs_2	0.3327	0.3026	0.2791	0.2771	0.3256
HDDT breast-y	0.5519	0.5446	0.5549	0.5335	0.5520	KEEL glass-0-1-5_vs_2	0.2266	0.1495	0.1787	0.1618	0.2388
HDDT cam	0.2243	0.2039	0.2036	0.1802	0.1725	KEEL glass-0-1-6_vs_2	0.3287	0.2900	0.3406	0.2424	0.2635
HDDT compustat	0.3637	0.3788	0.3837	0.2992	0.3611	KEEL glass-0-1-6_vs_5	0.7905	0.7460	0.7787	0.7425	0.6181
HDDT covtype	0.9293	0.9275	0.9279	0.9163	0.9231	KEEL glass-0-4_vs_5	0.9939	0.8898	0.9486	0.9223	0.8446
HDDT credit-g	0.6126	0.5937	0.5956	0.5931	0.6003	KEEL glass-0-6_vs_5	0.9001	0.6555	0.6838	0.8860	0.7561
HDDT estate	0.2350	0.2538	0.2816	0.2250	0.2944	KEEL glass0	0.7763	0.7918	0.7857	0.7851	0.7684
HDDT german-numer	0.6336	0.6237	0.6303	0.6244	0.6229	KEEL glass1	0.7407	0.7628	0.7782	0.7485	0.7461
HDDT heart-v	0.5251	0.5201	0.5270	0.5119	0.4970	KEEL glass2	0.3126	0.2663	0.2650	0.2524	0.3135
HDDT hypo	0.9342	0.9235	0.9305	0.9199	0.9233	KEEL glass4	0.6980	0.7031	0.6042	0.6664	0.6768
HDDT ism	0.7381	0.7272	0.7261	0.7170	0.7373	KEEL glass5	0.9477	0.7963	0.7115	0.7385	0.4104
HDDT letter	0.9749	0.9738	0.9742	0.9697	0.9635	KEEL glass6	0.9022	0.9167	0.8772	0.8825	0.8851
HDDT oil	0.5589	0.5835	0.5698	0.5329	0.5572	KEEL haberman	0.3901	0.5384	0.5256	0.3902	0.3913
HDDT optdigits	0.9933	0.9902	0.9943	0.9933	0.9900	KEEL iris0	0.9816	0.9728	0.9939	0.9848	0.9858
HDDT page	0.9171	0.9113	0.9113	0.9102	0.9128	KEEL led7digit-0-2-4-5-6-	0.8717	0.8688	0.8724	0.8746	0.8845
HDDT pendigits	0.9902	0.9910	0.9917	0.9890	0.9920	KEEL new-thyroid1	0.9347	0.9237	0.9206	0.9160	0.9378
HDDT phoneme	0.8609	0.8622	0.8636	0.8595	0.8651	KEEL new-thyroid2	0.9272	0.9467	0.9348	0.9302	0.9376
HDDT satimage	0.7495	0.7484	0.7559	0.7504	0.7305	KEEL page-blocks-1-3_vs_4	0.9586	0.9382	0.9567	0.9209	0.8597
HDDT segment	0.9899	0.9933	0.9938	0.9924	0.9928	KEEL pima	0.6792	0.6874	0.7023	0.6925	0.7075
KEEL abalone19	0.0250	0.0000	0.0000	0.0000	0.0000	KEEL shuttle-c0-vs-c4	0.9996	0.9962	0.9996	0.9996	0.9916
KEEL abalone9-18	0.4542	0.4241	0.4505	0.3909	0.5563	KEEL shuttle-c2-vs-c4	0.7633	0.8236	0.7521	0.8802	0.9304
KEEL cleveland-0_vs_4	0.5506	0.6503	0.6056	0.5997	0.5567	KEEL vehicle0	0.9612	0.9565	0.9565	0.9574	0.9766
KEEL ecoli-0-1-3-7_vs_2-6	0.6055	0.5046	0.4999	0.4349	0.4980	KEEL vehicle1	0.6640	0.6693	0.6624	0.6570	0.6898
KEEL ecoli-0-1-4-6_vs_5	0.8454	0.8484	0.8596	0.8657	0.8345	KEEL vehicle2	0.9679	0.9734	0.9713	0.9800	0.9831
KEEL ecoli-0-1-4-7_vs_2-3	0.7936	0.8103	0.8087	0.7722	0.7780	KEEL vehicle3	0.6533	0.6407	0.6400	0.6441	0.6590
KEEL ecoli-0-1-4-7_vs_5-6	0.7621	0.7980	0.7851	0.7635	0.8196	KEEL vowel0	0.9492	0.9599	0.9598	0.9677	0.9861
KEEL ecoli-0-1_vs_2-3-5	0.8353	0.8456	0.8271	0.8201	0.8202	KEEL wisconsin	0.9620	0.9615	0.9669	0.9669	0.9686
KEEL ecoli-0-1_vs_5	0.8276	0.8436	0.8505	0.8229	0.8628	KEEL yeast-0-2-5-6_vs_3-7	0.6767	0.6890	0.6935	0.6641	0.6801
KEEL ecoli-0-2-3-4_vs_5	0.8765	0.8490	0.8869	0.8510	0.8467	KEEL yeast-0-2-5-7-9_vs_3	0.8731	0.8764	0.8750	0.8693	0.8769
KEEL ecoli-0-2-6-7_vs_3-5	0.8350	0.8645	0.8470	0.8362	0.7671	KEEL yeast-0-3-5-9_vs_7-8	0.4743	0.4506	0.4923	0.4748	0.4397
KEEL ecoli-0-3-4-6_vs_5	0.8639	0.8602	0.8310	0.8456	0.8363	KEEL yeast-0-5-6-7-9_vs_4	0.6086	0.5798	0.5945	0.5598	0.5161
KEEL ecoli-0-3-4-7_vs_5-6	0.8538	0.8553	0.8692	0.8619	0.8103	KEEL yeast-1-2-8-9_vs_7	0.3246	0.3039	0.3204	0.3014	0.2951
KEEL ecoli-0-3-4_vs_5	0.8269	0.8311	0.8666	0.8594	0.8042	KEEL yeast-1-4-5-8_vs_7	0.0878	0.1139	0.0515	0.1138	0.0000
KEEL ecoli-0-4-6_vs_5	0.8154	0.8158	0.8138	0.7947	0.7881	KEEL yeast-1_vs_7	0.5068	0.5416	0.4913	0.4464	0.4462
KEEL ecoli-0-6-7_vs_3-5	0.7948	0.8264	0.8159	0.8077	0.8002	KEEL yeast-2_vs_4	0.8268	0.8436	0.8359	0.8230	0.8513
KEEL ecoli-0-6-7_vs_5	0.8843	0.8621	0.8698	0.8525	0.8512	KEEL yeast-2_vs_8	0.6786	0.6652	0.7135	0.6580	0.5631
KEEL ecoli-0_vs_1	0.9813	0.9704	0.9744	0.9772	0.9551	KEEL yeast1	0.6341	0.6337	0.6333	0.6280	0.6406
KEEL ecoli1	0.8391	0.8406	0.8374	0.8485	0.8532	KEEL yeast3	0.8398	0.8383	0.8438	0.8334	0.8315
KEEL ecoli2	0.8648	0.8754	0.8747	0.8587	0.8673	KEEL yeast4	0.3964	0.4326	0.4048	0.3672	0.4103
KEEL ecoli3	0.6684	0.6874	0.6607	0.6448	0.6307	KEEL yeast5	0.7830	0.7587	0.7733	0.7583	0.7673
KEEL ecoli4	0.8533	0.8717	0.8597	0.7960	0.8888	KEEL yeast6	0.5800	0.5960	0.5869	0.5050	0.5895

Table 37: AUC for ABo2 ensembles, HDDT and KEEL datasets.

Dataset	ABo2	O+ ABo2	DN+ ABo2	RFW+ ABo2	RF+ ABo2
HDDT PhosS	0.7244	0.7295	0.7262	0.7350	0.7422
HDDT boundary	0.6814	0.7192	0.6902	0.7321	0.7419
HDDT breast-y	0.6185	0.6332	0.6409	0.6263	0.6474
HDDT cam	0.7674	0.7800	0.7705	0.7787	0.7830
HDDT compustat	0.9292	0.9327	0.9298	0.9244	0.9377
HDDT covtype	0.9960	0.9961	0.9962	0.9958	0.9963
HDDT credit-g	0.7294	0.7566	0.7502	0.7436	0.7752
HDDT estate	0.6151	0.6141	0.6070	0.6007	0.6227
HDDT german-numer	0.7540	0.7595	0.7645	0.7580	0.7732
HDDT heart-v	0.6680	0.6739	0.6809	0.6704	0.6797
HDDT hypo	0.9887	0.9888	0.9885	0.9908	0.9924
HDDT ism	0.8819	0.8870	0.8851	0.8830	0.8880
HDDT letter	1.0000	1.0000	0.9999	0.9999	1.0000
HDDT oil	0.9091	0.9220	0.9115	0.9133	0.9357
HDDT optdigits	0.9999	0.9999	0.9999	1.0000	0.9999
HDDT page	0.9895	0.9904	0.9906	0.9909	0.9909
HDDT pendigits	0.9999	1.0000	0.9999	0.9999	1.0000
HDDT phoneme	0.9400	0.9461	0.9533	0.9392	0.9525
HDDT satimage	0.9577	0.9583	0.9576	0.9591	0.9642
HDDT segment	0.9998	0.9999	0.9999	0.9999	1.0000
KEEL abalone19	0.6575	0.6287	0.6449	0.6692	0.7421
KEEL abalone9-18	0.8063	0.8077	0.8053	0.8172	0.9066
KEEL cleveland-0_vs_4	0.9397	0.9525	0.9585	0.9512	0.9663
KEEL ecoli-0-1-3-7_vs_2-6	0.9218	0.9243	0.9133	0.9117	0.9004
KEEL ecoli-0-1-4-6_vs_5	0.9855	0.9892	0.9868	0.9890	0.9815
KEEL ecoli-0-1-4-7_vs_2-3	0.9267	0.9350	0.9340	0.9339	0.9298
KEEL ecoli-0-1-4-7_vs_5-6	0.9609	0.9647	0.9642	0.9681	0.9691
KEEL ecoli-0-1_vs_2-3-5	0.9414	0.9492	0.9492	0.9531	0.9571
KEEL ecoli-0-1_vs_5	0.9632	0.9763	0.9785	0.9787	0.9820
KEEL ecoli-0-2-3-4_vs_5	0.9709	0.9808	0.9751	0.9824	0.9663
KEEL ecoli-0-2-6-7_vs_3-5	0.9308	0.9463	0.9262	0.9392	0.9480
KEEL ecoli-0-3-4-6_vs_5	0.9571	0.9731	0.9763	0.9812	0.9761
KEEL ecoli-0-3-4-7_vs_5-6	0.9542	0.9535	0.9555	0.9656	0.9563
KEEL ecoli-0-3-4_vs_5	0.9701	0.9736	0.9715	0.9743	0.9678
KEEL ecoli-0-4-6_vs_5	0.9796	0.9814	0.9831	0.9847	0.9783
KEEL ecoli-0-6-7_vs_3-5	0.8866	0.9403	0.9241	0.9340	0.9495
KEEL ecoli-0-6-7_vs_5	0.9573	0.9665	0.9545	0.9654	0.9617
KEEL ecoli-0_vs_1	0.9863	0.9930	0.9895	0.9918	0.9950
KEEL ecoli1	0.9360	0.9399	0.9343	0.9389	0.9524
KEEL ecoli2	0.9545	0.9668	0.9691	0.9647	0.9677
KEEL ecoli3	0.9020	0.9047	0.9091	0.9141	0.9283
KEEL ecoli4	0.9795	0.9794	0.9825	0.9824	0.9891

Dataset	ABo2	O+ ABo2	DN+ ABo2	RFW+ ABo2	RF+ ABo2
KEEL glass-0-1-2-3_vs_4-5	0.9684	0.9787	0.9807	0.9791	0.9868
KEEL glass-0-1-4-6_vs_2	0.7135	0.7122	0.7383	0.7262	0.8427
KEEL glass-0-1-5_vs_2	0.6925	0.6925	0.7346	0.6954	0.8344
KEEL glass-0-1-6_vs_2	0.7176	0.7081	0.7418	0.7194	0.8403
KEEL glass-0-1-6_vs_5	0.9813	0.9933	0.9943	0.9890	0.9937
KEEL glass-0-4_vs_5	0.9940	0.9966	1.0000	0.9995	0.9995
KEEL glass-0-6_vs_5	0.9831	0.9945	0.9979	0.9982	0.9992
KEEL glass0	0.8579	0.8773	0.8760	0.8654	0.9004
KEEL glass1	0.7895	0.8690	0.8653	0.7917	0.8664
KEEL glass2	0.7561	0.7222	0.7698	0.7582	0.8764
KEEL glass4	0.9443	0.9720	0.9609	0.9684	0.9770
KEEL glass5	0.9756	0.9932	0.9920	0.9839	0.9936
KEEL glass6	0.9519	0.9684	0.9574	0.9671	0.9736
KEEL haberman	0.6730	0.6710	0.6490	0.6770	0.6681
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9620	0.9659	0.9641	0.9644	0.9635
KEEL new-thyroid1	0.9968	0.9965	0.9966	0.9962	0.9993
KEEL new-thyroid2	0.9966	0.9983	0.9984	0.9973	0.9995
KEEL page-blocks-1-3_vs_4	0.9986	0.9995	0.9994	0.9997	0.9999
KEEL pima	0.7960	0.8002	0.8030	0.7930	0.8037
KEEL shuttle-c0-vs-c4	0.9996	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9936	0.9945	0.9935	0.9952	0.9986
KEEL vehicle1	0.8345	0.8548	0.8467	0.8361	0.8893
KEEL vehicle2	0.9969	0.9980	0.9973	0.9977	0.9991
KEEL vehicle3	0.8325	0.8498	0.8497	0.8387	0.8845
KEEL vowel0	0.9988	0.9991	0.9989	0.9990	0.9999
KEEL wisconsin	0.9923	0.9935	0.9930	0.9931	0.9933
KEEL yeast-0-2-5-6_vs_3-7	0.8400	0.8562	0.8515	0.8522	0.8516
KEEL yeast-0-2-5-7-9_vs_3	0.9415	0.9465	0.9476	0.9519	0.9474
KEEL yeast-0-3-5-9_vs_7-8	0.7490	0.7692	0.7734	0.7621	0.7683
KEEL yeast-0-5-6-7-9_vs_4	0.8713	0.8871	0.8743	0.8732	0.8844
KEEL yeast-1-2-8-9_vs_7	0.7483	0.7314	0.7496	0.7549	0.7812
KEEL yeast-1-4-5-8_vs_7	0.6830	0.6747	0.6827	0.6892	0.6984
KEEL yeast-1_vs_7	0.7916	0.8022	0.7915	0.8039	0.7987
KEEL yeast-2_vs_4	0.9706	0.9760	0.9745	0.9692	0.9747
KEEL yeast-2_vs_8	0.8252	0.8386	0.8485	0.8630	0.8492
KEEL yeast1	0.7783	0.7836	0.7785	0.7817	0.7920
KEEL yeast3	0.9663	0.9670	0.9658	0.9643	0.9727
KEEL yeast4	0.9022	0.9157	0.9029	0.9056	0.9182
KEEL yeast5	0.9775	0.9814	0.9826	0.9813	0.9895
KEEL yeast6	0.8785	0.8890	0.8833	0.8814	0.8986

Table 38: F-measure for ABo2 ensembles, HDDT and KEEL datasets.

Dataset	ABo2	O+ ABo2	DN+ ABo2	RFW+ ABo2	RF+ ABo2
HDDT PhosS	0.0332	0.0006	0.0275	0.0019	0.0058
HDDT boundary	0.0623	0.0354	0.0577	0.0124	0.0063
HDDT breast-y	0.3932	0.3991	0.4228	0.3857	0.4188
HDDT cam	0.0863	0.0720	0.0813	0.0504	0.0555
HDDT compustat	0.2175	0.2292	0.2179	0.1607	0.1788
HDDT covtype	0.9004	0.8997	0.8992	0.8914	0.8931
HDDT credit-g	0.4989	0.5015	0.4986	0.5002	0.5070
HDDT estate	0.0132	0.0278	0.0716	0.0226	0.0425
HDDT german-numer	0.5015	0.5050	0.5079	0.5145	0.5058
HDDT heart-v	0.4046	0.3489	0.3690	0.3720	0.3323
HDDT hypo	0.8844	0.8941	0.8953	0.8895	0.8816
HDDT ism	0.6318	0.6297	0.6406	0.6346	0.6430
HDDT letter	0.9770	0.9765	0.9774	0.9706	0.9628
HDDT oil	0.4223	0.4573	0.4454	0.3967	0.4250
HDDT optdigits	0.9901	0.9936	0.9931	0.9920	0.9914
HDDT page	0.8666	0.8684	0.8633	0.8722	0.8707
HDDT pendigits	0.9863	0.9878	0.9876	0.9855	0.9897
HDDT phoneme	0.7901	0.8016	0.8146	0.7850	0.8113
HDDT satimage	0.6625	0.6674	0.6652	0.6652	0.6608
HDDT segment	0.9857	0.9893	0.9894	0.9914	0.9921
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.3320	0.3230	0.3364	0.3100	0.4118
KEEL cleveland-0_vs_4	0.3581	0.4208	0.4442	0.4156	0.3484
KEEL ecoli-0-1-3-7_vs_2-6	0.3602	0.4110	0.3888	0.2705	0.3467
KEEL ecoli-0-1-4-6_vs_5	0.7540	0.7948	0.7634	0.7911	0.8111
KEEL ecoli-0-1-4-7_vs_2-3	0.6361	0.7314	0.6703	0.6713	0.7549
KEEL ecoli-0-1-4-7_vs_5-6	0.7075	0.7821	0.7534	0.7144	0.7526
KEEL ecoli-0-1_vs_2-3-5	0.6806	0.7329	0.7298	0.7022	0.7438
KEEL ecoli-0-1_vs_5	0.7090	0.7796	0.7738	0.7847	0.8220
KEEL ecoli-0-2-3-4_vs_5	0.7248	0.8181	0.7681	0.7751	0.8028
KEEL ecoli-0-2-6-7_vs_3-5	0.6481	0.7888	0.7184	0.7125	0.7796
KEEL ecoli-0-3-4-6_vs_5	0.6980	0.7563	0.7497	0.7186	0.8072
KEEL ecoli-0-3-4-7_vs_5-6	0.7537	0.8094	0.7825	0.7805	0.7853
KEEL ecoli-0-3-4_vs_5	0.7482	0.7581	0.7625	0.7425	0.7796
KEEL ecoli-0-4-6_vs_5	0.7214	0.7443	0.7273	0.7358	0.8068
KEEL ecoli-0-6-7_vs_3-5	0.6388	0.7521	0.7065	0.6958	0.7064
KEEL ecoli-0-6-7_vs_5	0.7730	0.8100	0.7940	0.7867	0.7875
KEEL ecoli-0_vs_1	0.9584	0.9654	0.9654	0.9679	0.9725
KEEL ecoli1	0.7316	0.7491	0.7521	0.7400	0.7783
KEEL ecoli2	0.7674	0.8009	0.8117	0.8024	0.8427
KEEL ecoli3	0.4787	0.5052	0.4909	0.5157	0.4550
KEEL ecoli4	0.6859	0.7877	0.7429	0.7486	0.8255
KEEL glass-0-1-2-3_vs_4-5	0.8373	0.8595	0.8408	0.8433	0.8671
KEEL glass-0-1-4-6_vs_2	0.2195	0.2532	0.2449	0.2343	0.1520
KEEL glass-0-1-5_vs_2	0.2269	0.1621	0.1911	0.1759	0.1704
KEEL glass-0-1-6_vs_2	0.1811	0.2097	0.1776	0.1858	0.1907
KEEL glass-0-1-6_vs_5	0.5257	0.7538	0.7921	0.6087	0.6289
KEEL glass-0-4_vs_5	0.9394	0.9394	0.9505	0.8858	0.8841
KEEL glass-0-6_vs_5	0.6687	0.7996	0.8536	0.7666	0.7865
KEEL glass0	0.6648	0.6865	0.7028	0.6682	0.6978
KEEL glass1	0.6326	0.7204	0.6955	0.6030	0.6930
KEEL glass2	0.1714	0.1399	0.1364	0.1381	0.2125
KEEL glass4	0.4878	0.5229	0.4910	0.5491	0.4702
KEEL glass5	0.6376	0.7677	0.7725	0.6062	0.5000
KEEL glass6	0.8077	0.8701	0.8560	0.8526	0.8433
KEEL haberman	0.1263	0.3193	0.3488	0.1263	0.2389
KEEL iris0	0.9813	0.9813	1.0000	0.9896	1.0000
KEEL led7digit-0-2-4-5-6-	0.7586	0.7705	0.7824	0.7659	0.7840
KEEL new-thyroid1	0.9300	0.9222	0.9158	0.9256	0.9648
KEEL new-thyroid2	0.9252	0.9387	0.9389	0.9319	0.9680
KEEL page-blocks-1-3_vs_4	0.9263	0.9501	0.9360	0.9666	0.9595
KEEL pima	0.6083	0.6273	0.6188	0.6031	0.6102
KEEL shuttle-c0-vs-c4	0.9943	0.9967	0.9943	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9800	0.9114
KEEL vehicle0	0.9173	0.9230	0.9156	0.9262	0.9619
KEEL vehicle1	0.5415	0.5447	0.5201	0.5292	0.5820
KEEL vehicle2	0.9582	0.9645	0.9619	0.9663	0.9756
KEEL vehicle3	0.5213	0.5308	0.5119	0.5157	0.5352
KEEL vowel0	0.9525	0.9503	0.9611	0.9546	0.9865
KEEL wisconsin	0.9427	0.9490	0.9464	0.9527	0.9605
KEEL yeast-0-2-5-6_vs_3-7	0.5709	0.5649	0.5660	0.5398	0.5891
KEEL yeast-0-2-5-7-9_vs_3	0.8013	0.8103	0.8108	0.8100	0.8274
KEEL yeast-0-3-5-9_vs_7-8	0.2876	0.3349	0.3313	0.3180	0.3476
KEEL yeast-0-5-6-7-9_vs_4	0.4463	0.4375	0.4282	0.4263	0.4245
KEEL yeast-1-2-8-9_vs_7	0.2335	0.2332	0.2251	0.1871	0.1777
KEEL yeast-1-4-5-8_vs_7	0.0516	0.0439	0.0464	0.0458	0.0000
KEEL yeast-1_vs_7	0.3218	0.3255	0.3374	0.2908	0.3260
KEEL yeast-2_vs_4	0.7209	0.7340	0.7414	0.7389	0.7928
KEEL yeast-2_vs_8	0.5268	0.5863	0.6173	0.6016	0.5303
KEEL yeast1	0.5138	0.5287	0.5211	0.5117	0.5274
KEEL yeast3	0.7561	0.7543	0.7571	0.7519	0.7502
KEEL yeast4	0.2602	0.2648	0.2482	0.2283	0.2389
KEEL yeast5	0.6662	0.6701	0.6691	0.6342	0.6769
KEEL yeast6	0.3998	0.4101	0.4154	0.3645	0.4320

Table 39: G-mean for ABo2 ensembles, HDDT and KEEL datasets.

Dataset	ABo2	O+ ABo2	DN+ ABo2	RFW+ ABo2	RF+ ABo2	Dataset	ABo2	O+ ABo2	DN+ ABo2	RFW+ ABo2	RF+ ABo2
HDDT PhosS	0.1261	0.0057	0.1043	0.0138	0.0369	KEEL glass-0-1-2-3_vs_4-5	0.8862	0.8991	0.8874	0.8882	0.9071
HDDT boundary	0.1876	0.1130	0.1814	0.0509	0.0255	KEEL glass-0-1-4-6_vs_2	0.3621	0.3903	0.3658	0.3518	0.2251
HDDT breast-y	0.5371	0.5407	0.5604	0.5296	0.5537	KEEL glass-0-1-5_vs_2	0.4060	0.2910	0.3255	0.3048	0.3077
HDDT cam	0.2166	0.1950	0.2084	0.1604	0.1692	KEEL glass-0-1-6_vs_2	0.3435	0.3600	0.3290	0.3326	0.2917
HDDT compustat	0.3519	0.3614	0.3521	0.2963	0.3136	KEEL glass-0-1-6_vs_5	0.6953	0.8469	0.8826	0.7262	0.7171
HDDT covtype	0.9302	0.9288	0.9296	0.9199	0.9217	KEEL glass-0-4_vs_5	0.9834	0.9834	0.9939	0.9340	0.8966
HDDT credit-g	0.6178	0.6136	0.6128	0.6138	0.6150	KEEL glass-0-6_vs_5	0.7966	0.8700	0.9074	0.8366	0.8123
HDDT estate	0.0698	0.1185	0.2013	0.1006	0.1468	KEEL glass0	0.7435	0.7614	0.7764	0.7452	0.7681
HDDT german-numer	0.6174	0.6183	0.6207	0.6260	0.6147	KEEL glass1	0.7047	0.7745	0.7536	0.6831	0.7512
HDDT heart-v	0.5587	0.5086	0.5220	0.5309	0.4782	KEEL glass2	0.3304	0.2421	0.2622	0.2306	0.3476
HDDT hypo	0.9323	0.9403	0.9410	0.9319	0.9249	KEEL glass4	0.6604	0.6526	0.6438	0.6539	0.5629
HDDT ism	0.7285	0.7260	0.7333	0.7197	0.7332	KEEL glass5	0.7597	0.8624	0.8722	0.7029	0.5722
HDDT letter	0.9780	0.9776	0.9787	0.9718	0.9636	KEEL glass6	0.8901	0.9071	0.9080	0.9040	0.8840
HDDT oil	0.5583	0.5789	0.5717	0.5186	0.5338	KEEL haberman	0.1922	0.4732	0.5117	0.1922	0.3702
HDDT optdigits	0.9907	0.9938	0.9934	0.9920	0.9915	KEEL iris0	0.9816	0.9816	1.0000	0.9898	1.0000
HDDT page	0.9173	0.9178	0.9126	0.9184	0.9184	KEEL led7digit-0-2-4-5-6-	0.8650	0.8665	0.8758	0.8661	0.8732
HDDT pendigits	0.9886	0.9900	0.9899	0.9874	0.9921	KEEL new-thyroid1	0.9529	0.9510	0.9448	0.9449	0.9743
HDDT phoneme	0.8459	0.8539	0.8638	0.8423	0.8609	KEEL new-thyroid2	0.9430	0.9553	0.9553	0.9490	0.9754
HDDT satimage	0.7503	0.7529	0.7514	0.7472	0.7385	KEEL page-blocks-1-3_vs_4	0.9629	0.9761	0.9636	0.9738	0.9699
HDDT segment	0.9900	0.9921	0.9929	0.9930	0.9931	KEEL pima	0.6919	0.7072	0.6997	0.6876	0.6936
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000	KEEL shuttle-c0-vs-c4	0.9996	0.9967	0.9996	1.0000	0.9959
KEEL abalone9-18	0.4999	0.4847	0.4941	0.4585	0.5297	KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9816	0.9433
KEEL cleveland-0_vs_4	0.4947	0.5253	0.5285	0.5061	0.4215	KEEL vehicle0	0.9491	0.9524	0.9472	0.9531	0.9759
KEEL ecoli-0-1-3-7_vs_2-6	0.5424	0.5317	0.5514	0.3844	0.4248	KEEL vehicle1	0.6647	0.6669	0.6454	0.6557	0.6890
KEEL ecoli-0-1-4-6_vs_5	0.8662	0.8549	0.8512	0.8537	0.8453	KEEL vehicle2	0.9716	0.9753	0.9740	0.9753	0.9825
KEEL ecoli-0-1-4-7_vs_2-3	0.7625	0.8206	0.7854	0.7821	0.8149	KEEL vehicle3	0.6446	0.6510	0.6344	0.6407	0.6438
KEEL ecoli-0-1-4-7_vs_5-6	0.8073	0.8374	0.8304	0.7849	0.7908	KEEL vowel0	0.9676	0.9611	0.9758	0.9688	0.9886
KEEL ecoli-0-1_vs_2-3-5	0.8185	0.8197	0.8346	0.8024	0.8020	KEEL wisconsin	0.9556	0.9606	0.9584	0.9649	0.9725
KEEL ecoli-0-1_vs_5	0.8246	0.8374	0.8516	0.8426	0.8570	KEEL yeast-0-2-5-6_vs_3-7	0.6936	0.6781	0.6832	0.6652	0.6834
KEEL ecoli-0-2-3-4_vs_5	0.8479	0.8842	0.8686	0.8647	0.8617	KEEL yeast-0-2-5-7-9_vs_3	0.8684	0.8785	0.8757	0.8735	0.8757
KEEL ecoli-0-2-6-7_vs_3-5	0.7816	0.8494	0.8351	0.8198	0.8204	KEEL yeast-0-3-5-9_vs_7-8	0.4455	0.4868	0.4781	0.4599	0.4737
KEEL ecoli-0-3-4-6_vs_5	0.8458	0.8505	0.8586	0.8443	0.8441	KEEL yeast-0-5-6-7-9_vs_4	0.6022	0.5862	0.5725	0.5673	0.5511
KEEL ecoli-0-3-4-7_vs_5-6	0.8447	0.8561	0.8489	0.8360	0.8333	KEEL yeast-1-2-8-9_vs_7	0.3463	0.3627	0.3357	0.2993	0.2832
KEEL ecoli-0-3-4_vs_5	0.8440	0.8408	0.8420	0.8434	0.8336	KEEL yeast-1-4-5-8_vs_7	0.1135	0.0879	0.0880	0.0880	0.0000
KEEL ecoli-0-4-6_vs_5	0.8338	0.8218	0.8159	0.8129	0.8511	KEEL yeast-1_vs_7	0.4935	0.4708	0.5013	0.4470	0.4468
KEEL ecoli-0-6-7_vs_3-5	0.7525	0.8218	0.7964	0.7807	0.7692	KEEL yeast-2_vs_4	0.8215	0.8312	0.8298	0.8275	0.8583
KEEL ecoli-0-6-7_vs_5	0.8621	0.8803	0.8794	0.8688	0.8367	KEEL yeast-2_vs_8	0.6815	0.7090	0.7251	0.7101	0.6053
KEEL ecoli-0_vs_1	0.9701	0.9750	0.9750	0.9764	0.9780	KEEL yeast1	0.6265	0.6398	0.6351	0.6241	0.6365
KEEL ecoli1	0.8224	0.8361	0.8388	0.8297	0.8529	KEEL yeast3	0.8535	0.8480	0.8520	0.8476	0.8318
KEEL ecoli2	0.8378	0.8560	0.8602	0.8542	0.8835	KEEL yeast4	0.4233	0.4192	0.4056	0.3797	0.3780
KEEL ecoli3	0.6509	0.6729	0.6494	0.6609	0.6136	KEEL yeast5	0.7843	0.7737	0.7757	0.7357	0.7709
KEEL ecoli4	0.8094	0.8581	0.8291	0.8129	0.8731	KEEL yeast6	0.5607	0.5621	0.5736	0.5186	0.5790

Table 40: AUC for MBo ensembles, HDDT and KEEL datasets.

Dataset	MBo	O+ MBo	DN+ MBo	RFW+ MBo	RF+ MBo
HDDT PhosS	0.7345	0.7307	0.7367	0.7354	0.7409
HDDT boundary	0.7126	0.7111	0.7235	0.7264	0.7069
HDDT breast-y	0.6249	0.6521	0.6458	0.6382	0.6534
HDDT cam	0.7576	0.7692	0.7631	0.7710	0.7769
HDDT compustat	0.9294	0.9312	0.9309	0.9218	0.9325
HDDT covtype	0.9948	0.9949	0.9949	0.9943	0.9949
HDDT credit-g	0.7615	0.7632	0.7675	0.7599	0.7738
HDDT estate	0.5904	0.6106	0.6143	0.5915	0.6185
HDDT german-numer	0.7662	0.7684	0.7706	0.7671	0.7706
HDDT heart-v	0.6624	0.6776	0.6723	0.6708	0.6717
HDDT hypo	0.9905	0.9924	0.9903	0.9921	0.9927
HDDT ism	0.8867	0.8898	0.8887	0.8852	0.8936
HDDT letter	0.9999	0.9999	0.9999	0.9999	0.9999
HDDT oil	0.9144	0.9266	0.9111	0.9164	0.9303
HDDT optdigits	0.9997	0.9993	0.9998	0.9999	0.9984
HDDT page	0.9902	0.9907	0.9902	0.9903	0.9908
HDDT pendigits	0.9997	0.9998	0.9997	0.9997	0.9997
HDDT phoneme	0.9437	0.9430	0.9429	0.9417	0.9446
HDDT satimage	0.9574	0.9592	0.9586	0.9574	0.9601
HDDT segment	0.9973	0.9992	0.9986	0.9997	0.9994
KEEL abalone19	0.6741	0.6638	0.6814	0.6956	0.7894
KEEL abalone9-18	0.8149	0.8126	0.8119	0.8100	0.9016
KEEL cleveland-0_vs_4	0.8836	0.9250	0.8979	0.9453	0.8492
KEEL ecoli-0-1-3-7_vs_2-6	0.8816	0.8187	0.8595	0.8303	0.8310
KEEL ecoli-0-1-4-6_vs_5	0.9508	0.9827	0.9575	0.9678	0.9513
KEEL ecoli-0-1-4-7_vs_2-3	0.9081	0.9294	0.9299	0.9392	0.9287
KEEL ecoli-0-1-4-7_vs_5-6	0.9266	0.9401	0.9231	0.9451	0.9569
KEEL ecoli-0-1_vs_2-3-5	0.9416	0.9361	0.9514	0.9428	0.9327
KEEL ecoli-0-1_vs_5	0.9318	0.9261	0.9580	0.9370	0.9487
KEEL ecoli-0-2-3-4_vs_5	0.9195	0.9500	0.9459	0.9291	0.9049
KEEL ecoli-0-2-6-7_vs_3-5	0.9248	0.9300	0.9313	0.9297	0.9157
KEEL ecoli-0-3-4-6_vs_5	0.9409	0.9659	0.9211	0.9591	0.9310
KEEL ecoli-0-3-4-7_vs_5-6	0.9435	0.9509	0.9530	0.9615	0.9458
KEEL ecoli-0-3-4_vs_5	0.9556	0.9056	0.9568	0.9641	0.8956
KEEL ecoli-0-4-6_vs_5	0.9481	0.9628	0.9562	0.9588	0.9585
KEEL ecoli-0-6-7_vs_3-5	0.8850	0.9029	0.9028	0.9267	0.9133
KEEL ecoli-0-6-7_vs_5	0.9347	0.9404	0.9639	0.9457	0.9298
KEEL ecoli-0_vs_1	0.9827	0.9805	0.9859	0.9843	0.9680
KEEL ecoli1	0.9383	0.9410	0.9384	0.9402	0.9451
KEEL ecoli2	0.9491	0.9625	0.9667	0.9614	0.9648
KEEL ecoli3	0.9230	0.9233	0.9295	0.9203	0.9388
KEEL ecoli4	0.9511	0.9668	0.9379	0.9248	0.9432

Dataset	MBo	O+ MBo	DN+ MBo	RFW+ MBo	RF+ MBo
KEEL glass-0-1-2-3_vs_4-5	0.9601	0.9692	0.9667	0.9652	0.9712
KEEL glass-0-1-4-6_vs_2	0.6964	0.6978	0.7186	0.7093	0.7925
KEEL glass-0-1-5_vs_2	0.6312	0.6788	0.7217	0.6499	0.7717
KEEL glass-0-1-6_vs_2	0.7112	0.6954	0.7201	0.6916	0.7667
KEEL glass-0-1-6_vs_5	0.9814	0.8970	0.9783	0.9721	0.8811
KEEL glass-0-4_vs_5	0.9940	0.9515	0.9952	0.9490	0.8795
KEEL glass-0-6_vs_5	0.9737	0.8858	0.8535	0.9370	0.9086
KEEL glass0	0.8796	0.8833	0.8856	0.8745	0.8895
KEEL glass1	0.8311	0.8564	0.8578	0.8244	0.8600
KEEL glass2	0.7252	0.7297	0.7060	0.7357	0.8684
KEEL glass4	0.8760	0.9645	0.9052	0.9135	0.9227
KEEL glass5	0.9714	0.9620	0.9709	0.9710	0.9177
KEEL glass6	0.9618	0.9525	0.9486	0.9388	0.9526
KEEL haberman	0.6390	0.6742	0.6598	0.6406	0.6313
KEEL iris0	0.9820	0.9894	0.9940	0.9890	0.9860
KEEL led7digit-0-2-4-5-6-	0.9619	0.9627	0.9651	0.9643	0.9584
KEEL new-thyroid1	0.9688	0.9730	0.9448	0.9688	0.9917
KEEL new-thyroid2	0.9734	0.9759	0.9706	0.9549	0.9589
KEEL page-blocks-1-3_vs_4	0.9702	0.9497	0.9798	0.9559	0.9447
KEEL pima	0.7974	0.8000	0.8029	0.7978	0.8138
KEEL shuttle-c0-vs-c4	0.9996	0.9964	0.9996	0.9997	0.9917
KEEL shuttle-c2-vs-c4	0.9427	0.9588	0.9018	0.9432	0.9567
KEEL vehicle0	0.9886	0.9900	0.9893	0.9893	0.9941
KEEL vehicle1	0.8516	0.8520	0.8471	0.8456	0.8772
KEEL vehicle2	0.9889	0.9923	0.9901	0.9948	0.9956
KEEL vehicle3	0.8511	0.8484	0.8417	0.8411	0.8772
KEEL vowel0	0.9873	0.9903	0.9882	0.9888	0.9997
KEEL wisconsin	0.9858	0.9861	0.9863	0.9858	0.9859
KEEL yeast-0-2-5-6_vs_3-7	0.8426	0.8484	0.8461	0.8499	0.8523
KEEL yeast-0-2-5-7-9_vs_3	0.9397	0.9423	0.9450	0.9413	0.9451
KEEL yeast-0-3-5-9_vs_7-8	0.7727	0.7687	0.7812	0.7628	0.7651
KEEL yeast-0-5-6-7-9_vs_4	0.8791	0.8823	0.8889	0.8759	0.8899
KEEL yeast-1-2-8-9_vs_7	0.7596	0.7399	0.7674	0.7477	0.7624
KEEL yeast-1-4-5-8_vs_7	0.6897	0.6946	0.7003	0.6920	0.6881
KEEL yeast-1_vs_7	0.8157	0.8135	0.8093	0.8048	0.8106
KEEL yeast-2_vs_4	0.9665	0.9699	0.9693	0.9679	0.9768
KEEL yeast-2_vs_8	0.8417	0.8424	0.8390	0.8718	0.8296
KEEL yeast1	0.7702	0.7789	0.7841	0.7787	0.7918
KEEL yeast3	0.9673	0.9673	0.9648	0.9640	0.9723
KEEL yeast4	0.9209	0.9186	0.9190	0.9198	0.9243
KEEL yeast5	0.9826	0.9873	0.9871	0.9846	0.9906
KEEL yeast6	0.8882	0.8919	0.9028	0.8883	0.9042

Dataset	MBo	O+ MBo	DN+ MBo	RFW+ MBo	RF+ MBo
HDDT PhosS	0.0020	0.0000	0.0019	0.0000	0.0000
HDDT boundary	0.0095	0.0096	0.0095	0.0000	0.0032
HDDT breast-y	0.3944	0.4199	0.4000	0.3922	0.4219
HDDT cam	0.0700	0.0562	0.0638	0.0390	0.0417
HDDT compustat	0.1772	0.2026	0.1921	0.1306	0.1677
HDDT covtype	0.8951	0.8929	0.8925	0.8814	0.8871
HDDT credit-g	0.4869	0.4803	0.4944	0.4853	0.4843
HDDT estate	0.0643	0.0666	0.0868	0.0720	0.0833
HDDT german-numer	0.5198	0.5154	0.5115	0.5118	0.5128
HDDT heart-v	0.3681	0.3460	0.3642	0.3848	0.3489
HDDT hypo	0.9014	0.8954	0.9006	0.8924	0.8776
HDDT ism	0.6623	0.6499	0.6637	0.6455	0.6486
HDDT letter	0.9726	0.9679	0.9687	0.9646	0.9573
HDDT oil	0.4463	0.4475	0.4471	0.4122	0.4193
HDDT optdigits	0.9898	0.9881	0.9914	0.9916	0.9862
HDDT page	0.8801	0.8769	0.8801	0.8746	0.8809
HDDT pendigits	0.9849	0.9862	0.9875	0.9845	0.9871
HDDT phoneme	0.8163	0.8123	0.8164	0.8105	0.8145
HDDT satimage	0.6604	0.6600	0.6634	0.6568	0.6379
HDDT segment	0.9831	0.9896	0.9896	0.9896	0.9894
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.2835	0.2663	0.2783	0.2511	0.4133
KEEL cleveland-0_vs_4	0.4144	0.5358	0.4243	0.5088	0.4113
KEEL ecoli-0-1-3-7_vs_2-6	0.4450	0.3669	0.3350	0.3438	0.3338
KEEL ecoli-0-1-4-6_vs_5	0.7452	0.7745	0.7830	0.7946	0.7715
KEEL ecoli-0-1-4-7_vs_2-3	0.6904	0.7565	0.7221	0.7154	0.7350
KEEL ecoli-0-1-4-7_vs_5-6	0.6623	0.7150	0.7200	0.6862	0.7613
KEEL ecoli-0-1_vs_2-3-5	0.7237	0.7362	0.7655	0.7593	0.7388
KEEL ecoli-0-1_vs_5	0.7376	0.7471	0.7796	0.7621	0.7918
KEEL ecoli-0-2-3-4_vs_5	0.7699	0.7891	0.8178	0.7718	0.7584
KEEL ecoli-0-2-6-7_vs_3-5	0.7451	0.7871	0.7840	0.7517	0.7237
KEEL ecoli-0-3-4-6_vs_5	0.7600	0.7660	0.7585	0.7834	0.7495
KEEL ecoli-0-3-4-7_vs_5-6	0.7716	0.7650	0.7977	0.7900	0.7549
KEEL ecoli-0-3-4_vs_5	0.7669	0.7417	0.7928	0.7887	0.7311
KEEL ecoli-0-4-6_vs_5	0.7215	0.7549	0.7982	0.7179	0.7147
KEEL ecoli-0-6-7_vs_3-5	0.7143	0.7390	0.7235	0.7211	0.7302
KEEL ecoli-0-6-7_vs_5	0.7987	0.7900	0.7941	0.7804	0.7884
KEEL ecoli-0_vs_1	0.9741	0.9618	0.9653	0.9702	0.9417
KEEL ecoli1	0.7555	0.7511	0.7616	0.7695	0.7823
KEEL ecoli2	0.8175	0.8331	0.8212	0.8182	0.8378
KEEL ecoli3	0.5310	0.5300	0.5239	0.5012	0.4938
KEEL ecoli4	0.7353	0.7698	0.7429	0.7308	0.8257
KEEL glass-0-1-2-3_vs_4-5	0.8555	0.8664	0.8339	0.8413	0.8424
KEEL glass-0-1-4-6_vs_2	0.2172	0.2196	0.1681	0.1600	0.1488
KEEL glass-0-1-5_vs_2	0.1217	0.1442	0.1690	0.1748	0.1347
KEEL glass-0-1-6_vs_2	0.1551	0.1218	0.1340	0.1051	0.1366
KEEL glass-0-1-6_vs_5	0.6919	0.6690	0.6700	0.6157	0.4423
KEEL glass-0-4_vs_5	0.9505	0.8413	0.9112	0.8711	0.7673
KEEL glass-0-6_vs_5	0.8163	0.5549	0.5998	0.8203	0.5814
KEEL glass0	0.7071	0.7158	0.7009	0.6991	0.7139
KEEL glass1	0.6719	0.7047	0.7008	0.6612	0.6774
KEEL glass2	0.1530	0.1282	0.1386	0.1101	0.1466
KEEL glass4	0.5145	0.5385	0.4881	0.5932	0.5310
KEEL glass5	0.8210	0.6633	0.6088	0.6488	0.3309
KEEL glass6	0.8404	0.8687	0.8098	0.8301	0.8158
KEEL haberman	0.2752	0.3503	0.3498	0.2755	0.2752
KEEL iris0	0.9813	0.9660	0.9938	0.9819	0.9856
KEEL led7digit-0-2-4-5-6-	0.7724	0.7725	0.7740	0.7637	0.7551
KEEL new-thyroid1	0.8886	0.8812	0.8770	0.8672	0.9182
KEEL new-thyroid2	0.8949	0.9185	0.8892	0.8819	0.9144
KEEL page-blocks-1-3_vs_4	0.9115	0.8732	0.9277	0.8807	0.7956
KEEL pima	0.6209	0.6258	0.6180	0.6198	0.6366
KEEL shuttle-c0-vs-c4	0.9943	0.9903	0.9943	0.9952	0.9893
KEEL shuttle-c2-vs-c4	0.7005	0.7683	0.6333	0.7929	0.8195
KEEL vehicle0	0.9242	0.9326	0.9286	0.9300	0.9590
KEEL vehicle1	0.5331	0.5312	0.5292	0.5025	0.5600
KEEL vehicle2	0.9483	0.9582	0.9497	0.9692	0.9696
KEEL vehicle3	0.5236	0.5109	0.5007	0.5026	0.5365
KEEL vowel0	0.9334	0.9340	0.9404	0.9513	0.9828
KEEL wisconsin	0.9525	0.9503	0.9537	0.9578	0.9590
KEEL yeast-0-2-5-6_vs_3-7	0.5650	0.5708	0.5686	0.5653	0.5719
KEEL yeast-0-2-5-7-9_vs_3	0.8012	0.8179	0.8030	0.8129	0.8244
KEEL yeast-0-3-5-9_vs_7-8	0.3166	0.3171	0.3410	0.2911	0.3224
KEEL yeast-0-5-6-7-9_vs_4	0.4773	0.4590	0.4598	0.4240	0.3910
KEEL yeast-1-2-8-9_vs_7	0.2064	0.1506	0.1970	0.1835	0.1512
KEEL yeast-1-4-5-8_vs_7	0.0562	0.0550	0.0333	0.0235	0.0000
KEEL yeast-1_vs_7	0.3417	0.3575	0.3380	0.2760	0.2581
KEEL yeast-2_vs_4	0.7546	0.7524	0.7594	0.7300	0.7761
KEEL yeast-2_vs_8	0.5957	0.5471	0.6231	0.5605	0.4433
KEEL yeast1	0.5259	0.5269	0.5301	0.5314	0.5261
KEEL yeast3	0.7580	0.7503	0.7568	0.7408	0.7528
KEEL yeast4	0.2736	0.2729	0.2874	0.2088	0.2425
KEEL yeast5	0.6752	0.6752	0.6721	0.6616	0.6563
KEEL yeast6	0.4296	0.4211	0.4461	0.3642	0.3984

Table 41: F-measure for MBo ensembles, HDDT and KEEL datasets.

Table 42: G-mean for MBo ensembles, HDDT and KEEL datasets.

Dataset	MBo	O+ MBo	DN+ MBo	RFW+ MBo	RF+ MBo
HDDT PhosS	0.0171	0.0000	0.0171	0.0000	0.0000
HDDT boundary	0.0382	0.0382	0.0382	0.0000	0.0127
HDDT breast-y	0.5360	0.5538	0.5401	0.5344	0.5559
HDDT cam	0.1906	0.1697	0.1803	0.1403	0.1448
HDDT compustat	0.3130	0.3373	0.3270	0.2636	0.3032
HDDT covtype	0.9253	0.9229	0.9233	0.9113	0.9156
HDDT credit-g	0.6001	0.5924	0.6044	0.5964	0.5949
HDDT estate	0.1901	0.1947	0.2282	0.2029	0.2207
HDDT german-numer	0.6284	0.6247	0.6210	0.6208	0.6205
HDDT heart-v	0.5262	0.5000	0.5147	0.5340	0.4927
HDDT hypo	0.9414	0.9330	0.9373	0.9295	0.9185
HDDT ism	0.7349	0.7285	0.7384	0.7149	0.7253
HDDT letter	0.9739	0.9694	0.9704	0.9659	0.9583
HDDT oil	0.5641	0.5666	0.5591	0.5319	0.5352
HDDT optdigits	0.9911	0.9901	0.9923	0.9916	0.9889
HDDT page	0.9230	0.9213	0.9225	0.9175	0.9221
HDDT pendigits	0.9870	0.9880	0.9898	0.9866	0.9896
HDDT phoneme	0.8651	0.8614	0.8648	0.8604	0.8625
HDDT satimage	0.7451	0.7445	0.7489	0.7395	0.7188
HDDT segment	0.9896	0.9919	0.9917	0.9907	0.9919
KEEL abalone19	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.4438	0.4247	0.4344	0.4024	0.5339
KEEL cleveland-0_vs_4	0.5247	0.6611	0.5322	0.6058	0.5403
KEEL ecoli-0-1-3-7_vs_2-6	0.5558	0.4847	0.4763	0.4354	0.4980
KEEL ecoli-0-1-4-6_vs_5	0.8400	0.8313	0.8534	0.8637	0.8345
KEEL ecoli-0-1-4-7_vs_2-3	0.7872	0.8230	0.8081	0.7858	0.7908
KEEL ecoli-0-1-4-7_vs_5-6	0.7474	0.7838	0.7865	0.7493	0.7991
KEEL ecoli-0-1_vs_2-3-5	0.8257	0.8226	0.8373	0.8366	0.7955
KEEL ecoli-0-1_vs_5	0.8211	0.8279	0.8516	0.8296	0.8531
KEEL ecoli-0-2-3-4_vs_5	0.8687	0.8498	0.8845	0.8531	0.8361
KEEL ecoli-0-2-6-7_vs_3-5	0.8338	0.8586	0.8536	0.8300	0.7729
KEEL ecoli-0-3-4-6_vs_5	0.8502	0.8508	0.8309	0.8585	0.8353
KEEL ecoli-0-3-4-7_vs_5-6	0.8360	0.8154	0.8517	0.8472	0.8138
KEEL ecoli-0-3-4_vs_5	0.8315	0.8468	0.8606	0.8655	0.8048
KEEL ecoli-0-4-6_vs_5	0.8102	0.8240	0.8704	0.7884	0.7815
KEEL ecoli-0-6-7_vs_3-5	0.7888	0.8104	0.8067	0.7954	0.7998
KEEL ecoli-0-6-7_vs_5	0.8746	0.8621	0.8693	0.8476	0.8526
KEEL ecoli-0_vs_1	0.9799	0.9704	0.9744	0.9772	0.9544
KEEL ecoli1	0.8364	0.8378	0.8436	0.8491	0.8578
KEEL ecoli2	0.8615	0.8733	0.8626	0.8580	0.8791
KEEL ecoli3	0.6716	0.6735	0.6624	0.6407	0.6397
KEEL ecoli4	0.8213	0.8659	0.8597	0.8018	0.8769
KEEL glass-0-1-2-3_vs_4-5	0.8964	0.9029	0.8824	0.8860	0.8877
KEEL glass-0-1-4-6_vs_2	0.3477	0.3132	0.2360	0.2535	0.2453
KEEL glass-0-1-5_vs_2	0.1985	0.2326	0.2687	0.2814	0.2396
KEEL glass-0-1-6_vs_2	0.2851	0.2071	0.2306	0.1818	0.2207
KEEL glass-0-1-6_vs_5	0.8090	0.7514	0.7678	0.7425	0.6181
KEEL glass-0-4_vs_5	0.9939	0.8898	0.9486	0.9223	0.8446
KEEL glass-0-6_vs_5	0.8775	0.6555	0.7165	0.8718	0.7588
KEEL glass0	0.7774	0.7861	0.7699	0.7710	0.7798
KEEL glass1	0.7364	0.7627	0.7578	0.7284	0.7384
KEEL glass2	0.2666	0.2001	0.2300	0.1835	0.2704
KEEL glass4	0.6874	0.6551	0.6156	0.7126	0.6638
KEEL glass5	0.9477	0.7831	0.7125	0.7592	0.3971
KEEL glass6	0.9017	0.9126	0.8815	0.8837	0.8763
KEEL haberman	0.3901	0.5055	0.5095	0.3902	0.3913
KEEL iris0	0.9816	0.9728	0.9939	0.9848	0.9858
KEEL led7digit-0-2-4-5-6-	0.8747	0.8723	0.8723	0.8710	0.8536
KEEL new-thyroid1	0.9318	0.9232	0.9206	0.9160	0.9407
KEEL new-thyroid2	0.9272	0.9439	0.9348	0.9272	0.9376
KEEL page-blocks-1-3_vs_4	0.9586	0.9382	0.9567	0.9323	0.8597
KEEL pima	0.7011	0.7057	0.6991	0.7006	0.7134
KEEL shuttle-c0-vs-c4	0.9996	0.9962	0.9996	0.9996	0.9916
KEEL shuttle-c2-vs-c4	0.7633	0.8236	0.7521	0.8802	0.9304
KEEL vehicle0	0.9516	0.9547	0.9527	0.9532	0.9746
KEEL vehicle1	0.6548	0.6560	0.6513	0.6313	0.6705
KEEL vehicle2	0.9655	0.9713	0.9662	0.9790	0.9783
KEEL vehicle3	0.6419	0.6322	0.6221	0.6246	0.6425
KEEL vowel0	0.9498	0.9551	0.9523	0.9631	0.9861
KEEL wisconsin	0.9641	0.9620	0.9650	0.9696	0.9709
KEEL yeast-0-2-5-6_vs_3-7	0.6719	0.6749	0.6733	0.6691	0.6648
KEEL yeast-0-2-5-7-9_vs_3	0.8705	0.8755	0.8708	0.8731	0.8733
KEEL yeast-0-3-5-9_vs_7-8	0.4639	0.4573	0.4844	0.4300	0.4446
KEEL yeast-0-5-6-7-9_vs_4	0.6036	0.5927	0.5932	0.5584	0.5176
KEEL yeast-1-2-8-9_vs_7	0.3239	0.2678	0.3123	0.2841	0.2574
KEEL yeast-1-4-5-8_vs_7	0.0987	0.0986	0.0622	0.0516	0.0000
KEEL yeast-1_vs_7	0.4914	0.4978	0.4853	0.4231	0.3927
KEEL yeast-2_vs_4	0.8430	0.8396	0.8421	0.8228	0.8386
KEEL yeast-2_vs_8	0.6908	0.6358	0.7055	0.6491	0.5341
KEEL yeast1	0.6387	0.6395	0.6414	0.6423	0.6356
KEEL yeast3	0.8480	0.8415	0.8491	0.8312	0.8316
KEEL yeast4	0.4293	0.4164	0.4344	0.3537	0.3810
KEEL yeast5	0.7801	0.7805	0.7718	0.7609	0.7572
KEEL yeast6	0.5779	0.5724	0.5929	0.5203	0.5441

Table 43: AUC for SMBo ensembles, HDDT and KEEL datasets.

Dataset	SMBo	O+ SMBo	DN+ SMBo	RFW+ SMBo	RF+ SMBo
HDDT PhosS	0.7299	0.7350	0.7321	0.7401	0.7475
HDDT boundary	0.6791	0.7153	0.6978	0.7202	0.7283
HDDT breast-y	0.6125	0.6276	0.6232	0.6159	0.6275
HDDT cam	0.7738	0.7861	0.7794	0.7911	0.7890
HDDT compustat	0.9331	0.9356	0.9337	0.9270	0.9395
HDDT covtype	0.9963	0.9961	0.9962	0.9959	0.9964
HDDT credit-g	0.7348	0.7607	0.7585	0.7542	0.7777
HDDT estate	0.6158	0.6187	0.6122	0.6149	0.6180
HDDT german-numer	0.7583	0.7679	0.7676	0.7633	0.7738
HDDT heart-v	0.6861	0.7003	0.7032	0.6870	0.6697
HDDT hypo	0.9896	0.9913	0.9907	0.9926	0.9926
HDDT ism	0.8915	0.8961	0.8964	0.8949	0.9040
HDDT letter	0.9999	1.0000	0.9999	1.0000	0.9999
HDDT oil	0.9179	0.9282	0.9176	0.9229	0.9335
HDDT optdigits	0.9999	0.9999	0.9998	1.0000	1.0000
HDDT page	0.9915	0.9913	0.9914	0.9914	0.9911
HDDT pendigits	0.9999	0.9999	0.9999	0.9999	1.0000
HDDT phoneme	0.9461	0.9521	0.9538	0.9480	0.9563
HDDT satimage	0.9596	0.9606	0.9594	0.9605	0.9650
HDDT segment	0.9998	0.9999	0.9999	0.9999	1.0000
KEEL abalone19	0.7035	0.6750	0.6898	0.7062	0.7905
KEEL abalone9-18	0.8089	0.8135	0.8062	0.8072	0.9055
KEEL cleveland-0_vs_4	0.9448	0.9618	0.9643	0.9495	0.9675
KEEL ecoli-0-1-3-7_vs_2-6	0.9220	0.9277	0.9144	0.9305	0.9305
KEEL ecoli-0-1-4-6_vs_5	0.9841	0.9876	0.9865	0.9892	0.9813
KEEL ecoli-0-1-4-7_vs_2-3	0.9334	0.9269	0.9333	0.9312	0.9265
KEEL ecoli-0-1-4-7_vs_5-6	0.9630	0.9681	0.9683	0.9696	0.9681
KEEL ecoli-0-1_vs_2-3-5	0.9312	0.9464	0.9446	0.9474	0.9552
KEEL ecoli-0-1_vs_5	0.9760	0.9779	0.9843	0.9784	0.9828
KEEL ecoli-0-2-3-4_vs_5	0.9715	0.9805	0.9815	0.9843	0.9640
KEEL ecoli-0-2-6-7_vs_3-5	0.9305	0.9518	0.9287	0.9417	0.9464
KEEL ecoli-0-3-4-6_vs_5	0.9762	0.9803	0.9809	0.9844	0.9730
KEEL ecoli-0-3-4-7_vs_5-6	0.9558	0.9570	0.9554	0.9595	0.9537
KEEL ecoli-0-3-4_vs_5	0.9729	0.9758	0.9836	0.9803	0.9764
KEEL ecoli-0-4-6_vs_5	0.9806	0.9802	0.9849	0.9848	0.9786
KEEL ecoli-0-6-7_vs_3-5	0.9033	0.9484	0.9220	0.9294	0.9471
KEEL ecoli-0-6-7_vs_5	0.9587	0.9707	0.9630	0.9684	0.9569
KEEL ecoli-0_vs_1	0.9881	0.9903	0.9900	0.9885	0.9949
KEEL ecoli1	0.9409	0.9412	0.9379	0.9424	0.9481
KEEL ecoli2	0.9538	0.9695	0.9709	0.9673	0.9684
KEEL ecoli3	0.9208	0.9208	0.9172	0.9213	0.9340
KEEL ecoli4	0.9811	0.9779	0.9850	0.9827	0.9884
KEEL glass-0-1-2-3_vs_4-5	0.9723	0.9789	0.9814	0.9819	0.9861
KEEL glass-0-1-4-6_vs_2	0.7279	0.7292	0.7610	0.7334	0.8434
KEEL glass-0-1-5_vs_2	0.7205	0.7273	0.7459	0.7355	0.8377
KEEL glass-0-1-6_vs_2	0.7296	0.7311	0.7531	0.7242	0.8333
KEEL glass-0-1-6_vs_5	0.9886	0.9946	0.9950	0.9888	0.9927
KEEL glass-0-4_vs_5	0.9940	0.9995	1.0000	1.0000	0.9980
KEEL glass-0-6_vs_5	0.9886	0.9949	0.9988	0.9963	0.9984
KEEL glass0	0.8663	0.8788	0.8713	0.8722	0.8960
KEEL glass1	0.8409	0.8629	0.8608	0.8565	0.8717
KEEL glass2	0.7730	0.7513	0.7951	0.7775	0.8768
KEEL glass4	0.9436	0.9731	0.9631	0.9624	0.9786
KEEL glass5	0.9737	0.9945	0.9831	0.9875	0.9930
KEEL glass6	0.9551	0.9683	0.9609	0.9682	0.9728
KEEL haberman	0.6823	0.6845	0.6579	0.6834	0.6803
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9564	0.9632	0.9603	0.9607	0.9618
KEEL new-thyroid1	0.9961	0.9968	0.9974	0.9972	0.9992
KEEL new-thyroid2	0.9970	0.9983	0.9984	0.9978	0.9992
KEEL page-blocks-1-3_vs_4	0.9986	0.9995	0.9995	0.9997	0.9996
KEEL pima	0.7972	0.8051	0.8080	0.8024	0.8181
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9933	0.9943	0.9936	0.9950	0.9984
KEEL vehicle1	0.8489	0.8570	0.8500	0.8486	0.8856
KEEL vehicle2	0.9969	0.9980	0.9972	0.9979	0.9989
KEEL vehicle3	0.8429	0.8464	0.8447	0.8441	0.8771
KEEL vowel0	0.9988	0.9989	0.9989	0.9992	0.9999
KEEL wisconsin	0.9930	0.9939	0.9933	0.9933	0.9943
KEEL yeast-0-2-5-6_vs_3-7	0.8418	0.8450	0.8494	0.8515	0.8529
KEEL yeast-0-2-5-7-9_vs_3	0.9463	0.9487	0.9509	0.9522	0.9481
KEEL yeast-0-3-5-9_vs_7-8	0.7599	0.7513	0.7732	0.7589	0.7618
KEEL yeast-0-5-6-7-9_vs_4	0.8788	0.8916	0.8863	0.8830	0.8879
KEEL yeast-1-2-8-9_vs_7	0.7674	0.7462	0.7724	0.7605	0.7707
KEEL yeast-1-4-5-8_vs_7	0.6907	0.6788	0.6759	0.6848	0.6812
KEEL yeast-1_vs_7	0.7985	0.8056	0.7952	0.8078	0.8056
KEEL yeast-2_vs_4	0.9688	0.9736	0.9751	0.9716	0.9764
KEEL yeast-2_vs_8	0.8268	0.8188	0.8367	0.8699	0.8402
KEEL yeast1	0.7769	0.7855	0.7852	0.7783	0.7935
KEEL yeast3	0.9641	0.9678	0.9662	0.9642	0.9736
KEEL yeast4	0.9107	0.9179	0.9093	0.9125	0.9249
KEEL yeast5	0.9843	0.9799	0.9843	0.9837	0.9898
KEEL yeast6	0.8851	0.8987	0.9069	0.9122	0.9143

Table 44: F-measure for SMBo ensembles, HDDT and KEEL datasets.

Dataset	SMBo	O+ SMBo	DN+ SMBo	RFW+ SMBo	RF+ SMBo
HDDT PhosS	0.0482	0.0032	0.0477	0.0103	0.0102
HDDT boundary	0.0668	0.0570	0.0597	0.0324	0.0184
HDDT breast-y	0.4068	0.4361	0.4108	0.4030	0.4265
HDDT cam	0.1523	0.1316	0.1410	0.0920	0.0856
HDDT compustat	0.3074	0.3207	0.3256	0.2511	0.2973
HDDT covtype	0.9027	0.9027	0.9032	0.8976	0.9015
HDDT credit-g	0.5221	0.5325	0.5450	0.5312	0.5505
HDDT estate	0.0400	0.0632	0.1071	0.0571	0.0823
HDDT german-numer	0.5185	0.5290	0.5283	0.5244	0.5452
HDDT heart-v	0.4239	0.4156	0.4396	0.4133	0.3912
HDDT hypo	0.8894	0.8928	0.8956	0.8956	0.8934
HDDT ism	0.6615	0.6635	0.6693	0.6595	0.6738
HDDT letter	0.9780	0.9761	0.9781	0.9722	0.9648
HDDT oil	0.4372	0.4752	0.4722	0.4736	0.5045
HDDT optdigits	0.9920	0.9927	0.9938	0.9927	0.9920
HDDT page	0.8733	0.8711	0.8714	0.8710	0.8739
HDDT pendigits	0.9862	0.9870	0.9869	0.9855	0.9903
HDDT phoneme	0.8086	0.8196	0.8204	0.8122	0.8233
HDDT satimage	0.6838	0.6840	0.6853	0.6808	0.6924
HDDT segment	0.9854	0.9897	0.9888	0.9903	0.9921
KEEL abalone19	0.0223	0.0000	0.0111	0.0000	0.0000
KEEL abalone9-18	0.3604	0.3432	0.3381	0.3326	0.4498
KEEL cleveland-0_vs_4	0.4493	0.4863	0.4631	0.4039	0.4312
KEEL ecoli-0-1-3-7_vs_2-6	0.2744	0.5213	0.3828	0.3557	0.4876
KEEL ecoli-0-1-4-6_vs_5	0.7836	0.7992	0.7934	0.7926	0.8146
KEEL ecoli-0-1-4-7_vs_2-3	0.6666	0.7055	0.6807	0.6621	0.7716
KEEL ecoli-0-1-4-7_vs_5-6	0.6984	0.7960	0.7834	0.7344	0.7736
KEEL ecoli-0-1_vs_2-3-5	0.6932	0.7577	0.7493	0.7133	0.7723
KEEL ecoli-0-1_vs_5	0.7300	0.8105	0.7795	0.7776	0.8239
KEEL ecoli-0-2-3-4_vs_5	0.7323	0.8173	0.7777	0.7686	0.7966
KEEL ecoli-0-2-6-7_vs_3-5	0.6949	0.7844	0.7445	0.7408	0.7868
KEEL ecoli-0-3-4-6_vs_5	0.7072	0.7346	0.7615	0.7540	0.8084
KEEL ecoli-0-3-4-7_vs_5-6	0.7710	0.8272	0.8118	0.8137	0.8198
KEEL ecoli-0-3-4_vs_5	0.7471	0.7631	0.7800	0.7354	0.7821
KEEL ecoli-0-4-6_vs_5	0.7258	0.7536	0.7649	0.7457	0.7949
KEEL ecoli-0-6-7_vs_3-5	0.6936	0.7482	0.7189	0.6964	0.7550
KEEL ecoli-0-6-7_vs_5	0.7822	0.8065	0.8004	0.7827	0.8016
KEEL ecoli-0_vs_1	0.9631	0.9654	0.9666	0.9679	0.9677
KEEL ecoli1	0.7495	0.7463	0.7487	0.7486	0.7755
KEEL ecoli2	0.7811	0.8152	0.8198	0.8073	0.8528
KEEL ecoli3	0.5441	0.5161	0.5248	0.5523	0.5091
KEEL ecoli4	0.6729	0.7838	0.7754	0.7388	0.8293

Dataset	SMBo	O+ SMBo	DN+ SMBo	RFW+ SMBo	RF+ SMBo
KEEL glass-0-1-2-3_vs_4-5	0.8309	0.8568	0.8420	0.8419	0.8815
KEEL glass-0-1-4-6_vs_2	0.2440	0.2895	0.2833	0.2430	0.2334
KEEL glass-0-1-5_vs_2	0.2812	0.2208	0.2070	0.1921	0.1858
KEEL glass-0-1-6_vs_2	0.2078	0.2261	0.2219	0.2088	0.2600
KEEL glass-0-1-6_vs_5	0.6099	0.7760	0.7833	0.6775	0.6372
KEEL glass-0-4_vs_5	0.9394	0.9394	0.9394	0.9108	0.8841
KEEL glass-0-6_vs_5	0.7322	0.8072	0.9298	0.7671	0.7738
KEEL glass0	0.6885	0.7033	0.6898	0.6912	0.7141
KEEL glass1	0.6879	0.7185	0.7160	0.7097	0.7000
KEEL glass2	0.2220	0.2124	0.2546	0.1690	0.2829
KEEL glass4	0.4967	0.5351	0.5141	0.5300	0.4984
KEEL glass5	0.6325	0.7595	0.6977	0.6484	0.5286
KEEL glass6	0.8171	0.8639	0.8508	0.8536	0.8430
KEEL haberman	0.4632	0.4294	0.4095	0.4703	0.4646
KEEL iris0	0.9813	0.9813	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.7620	0.7767	0.7733	0.7663	0.7672
KEEL new-thyroid1	0.9037	0.9197	0.9223	0.9239	0.9589
KEEL new-thyroid2	0.9233	0.9451	0.9387	0.9475	0.9657
KEEL page-blocks-1-3_vs_4	0.8980	0.9551	0.9160	0.9778	0.9609
KEEL pima	0.6356	0.6513	0.6531	0.6383	0.6601
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9000	0.9171
KEEL vehicle0	0.9172	0.9228	0.9171	0.9226	0.9531
KEEL vehicle1	0.5790	0.5803	0.5663	0.5724	0.6321
KEEL vehicle2	0.9602	0.9651	0.9588	0.9641	0.9740
KEEL vehicle3	0.5453	0.5529	0.5542	0.5520	0.5994
KEEL vowel0	0.9565	0.9413	0.9624	0.9599	0.9855
KEEL wisconsin	0.9444	0.9516	0.9510	0.9567	0.9611
KEEL yeast-0-2-5-6_vs_3-7	0.5689	0.5732	0.5787	0.5737	0.6201
KEEL yeast-0-2-5-7-9_vs_3	0.7985	0.8026	0.8044	0.8085	0.8246
KEEL yeast-0-3-5-9_vs_7-8	0.3418	0.3677	0.3818	0.3426	0.3555
KEEL yeast-0-5-6-7-9_vs_4	0.4624	0.4708	0.4670	0.4716	0.4613
KEEL yeast-1-2-8-9_vs_7	0.2471	0.2491	0.2347	0.2315	0.2103
KEEL yeast-1-4-5-8_vs_7	0.0512	0.0527	0.0417	0.0528	0.0000
KEEL yeast-1_vs_7	0.3538	0.3430	0.3827	0.3078	0.3395
KEEL yeast-2_vs_4	0.7300	0.7511	0.7555	0.7627	0.7956
KEEL yeast-2_vs_8	0.5536	0.5983	0.5645	0.6144	0.5269
KEEL yeast1	0.5605	0.5644	0.5596	0.5669	0.5855
KEEL yeast3	0.7572	0.7614	0.7641	0.7653	0.7700
KEEL yeast4	0.3069	0.3186	0.2953	0.2637	0.2991
KEEL yeast5	0.6871	0.7031	0.6812	0.6827	0.7295
KEEL yeast6	0.4373	0.4580	0.4345	0.4150	0.4759

Dataset	SMBo	O+ SMBo	DN+ SMBo	RFW+ SMBo	RF+ SMBo
HDDT PhosS	0.1564	0.0252	0.1547	0.0621	0.0542
HDDT boundary	0.1982	0.1757	0.1780	0.1089	0.0689
HDDT breast-y	0.5510	0.5756	0.5538	0.5478	0.5677
HDDT cam	0.3108	0.2806	0.2938	0.2275	0.2187
HDDT compustat	0.4340	0.4420	0.4477	0.3831	0.4219
HDDT covtype	0.9378	0.9377	0.9373	0.9320	0.9364
HDDT credit-g	0.6430	0.6475	0.6579	0.6479	0.6583
HDDT estate	0.1460	0.1873	0.2577	0.1765	0.2128
HDDT german-numer	0.6328	0.6402	0.6406	0.6350	0.6564
HDDT heart-v	0.5796	0.5664	0.5850	0.5693	0.5371
HDDT hypo	0.9440	0.9422	0.9459	0.9410	0.9396
HDDT ism	0.7694	0.7728	0.7721	0.7673	0.7789
HDDT letter	0.9788	0.9774	0.9793	0.9728	0.9660
HDDT oil	0.5773	0.5995	0.5991	0.5845	0.6059
HDDT optdigits	0.9927	0.9932	0.9942	0.9929	0.9920
HDDT page	0.9321	0.9313	0.9331	0.9317	0.9335
HDDT pendigits	0.9886	0.9893	0.9894	0.9879	0.9929
HDDT phoneme	0.8680	0.8763	0.8757	0.8725	0.8790
HDDT satimage	0.7791	0.7779	0.7803	0.7714	0.7848
HDDT segment	0.9905	0.9929	0.9936	0.9930	0.9934
KEEL abalone19	0.0500	0.0000	0.0250	0.0000	0.0000
KEEL abalone9-18	0.5377	0.5188	0.5146	0.4984	0.5692
KEEL cleveland-0_vs_4	0.5783	0.5997	0.5935	0.4780	0.5006
KEEL ecoli-0-1-3-7_vs_2-6	0.4558	0.6526	0.5767	0.5076	0.5924
KEEL ecoli-0-1-4-6_vs_5	0.8782	0.8652	0.8695	0.8696	0.8555
KEEL ecoli-0-1-4-7_vs_2-3	0.7886	0.8120	0.7977	0.7777	0.8355
KEEL ecoli-0-1-4-7_vs_5-6	0.7984	0.8507	0.8493	0.8051	0.8173
KEEL ecoli-0-1_vs_2-3-5	0.8312	0.8580	0.8660	0.8198	0.8473
KEEL ecoli-0-1_vs_5	0.8410	0.8612	0.8580	0.8419	0.8623
KEEL ecoli-0-2-3-4_vs_5	0.8631	0.8843	0.8741	0.8732	0.8652
KEEL ecoli-0-2-6-7_vs_3-5	0.8215	0.8535	0.8482	0.8383	0.8356
KEEL ecoli-0-3-4-6_vs_5	0.8531	0.8495	0.8652	0.8696	0.8542
KEEL ecoli-0-3-4-7_vs_5-6	0.8587	0.8864	0.8728	0.8688	0.8739
KEEL ecoli-0-3-4_vs_5	0.8391	0.8515	0.8637	0.8424	0.8453
KEEL ecoli-0-4-6_vs_5	0.8332	0.8369	0.8440	0.8229	0.8521
KEEL ecoli-0-6-7_vs_3-5	0.7906	0.8211	0.8122	0.7863	0.8123
KEEL ecoli-0-6-7_vs_5	0.8679	0.8801	0.8850	0.8724	0.8594
KEEL ecoli-0_vs_1	0.9736	0.9750	0.9757	0.9764	0.9758
KEEL ecoli1	0.8391	0.8401	0.8416	0.8393	0.8637
KEEL ecoli2	0.8444	0.8700	0.8705	0.8573	0.8923
KEEL ecoli3	0.7110	0.6862	0.6850	0.7031	0.6670
KEEL ecoli4	0.7899	0.8616	0.8468	0.8176	0.8840

Dataset	SMBo	O+ SMBo	DN+ SMBo	RFW+ SMBo	RF+ SMBo
KEEL glass-0-1-2-3_vs_4-5	0.8823	0.9007	0.8913	0.8875	0.9210
KEEL glass-0-1-4-6_vs_2	0.3959	0.4208	0.4077	0.3680	0.3129
KEEL glass-0-1-5_vs_2	0.4548	0.3726	0.3519	0.3491	0.2919
KEEL glass-0-1-6_vs_2	0.3779	0.3806	0.3762	0.3599	0.3784
KEEL glass-0-1-6_vs_5	0.7613	0.8692	0.8820	0.7789	0.7140
KEEL glass-0-4_vs_5	0.9834	0.9834	0.9834	0.9566	0.8966
KEEL glass-0-6_vs_5	0.8166	0.8782	0.9529	0.8429	0.8043
KEEL glass0	0.7659	0.7775	0.7682	0.7675	0.7844
KEEL glass1	0.7527	0.7758	0.7733	0.7680	0.7620
KEEL glass2	0.3984	0.3263	0.4269	0.2675	0.4234
KEEL glass4	0.6626	0.6634	0.6543	0.6514	0.5966
KEEL glass5	0.7756	0.8530	0.8064	0.7609	0.5910
KEEL glass6	0.8949	0.9061	0.9070	0.9075	0.8866
KEEL haberman	0.6129	0.5849	0.5707	0.6201	0.6098
KEEL iris0	0.9816	0.9816	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.8682	0.8698	0.8696	0.8632	0.8662
KEEL new-thyroid1	0.9424	0.9504	0.9537	0.9516	0.9708
KEEL new-thyroid2	0.9451	0.9614	0.9553	0.9618	0.9773
KEEL page-blocks-1-3_vs_4	0.9454	0.9869	0.9589	0.9815	0.9769
KEEL pima	0.7157	0.7286	0.7303	0.7179	0.7360
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	0.9000	0.9609
KEEL vehicle0	0.9505	0.9543	0.9514	0.9535	0.9744
KEEL vehicle1	0.7037	0.7056	0.6936	0.6992	0.7482
KEEL vehicle2	0.9740	0.9770	0.9733	0.9755	0.9834
KEEL vehicle3	0.6754	0.6812	0.6817	0.6797	0.7187
KEEL vowel0	0.9783	0.9633	0.9789	0.9756	0.9915
KEEL wisconsin	0.9571	0.9631	0.9634	0.9693	0.9735
KEEL yeast-0-2-5-6_vs_3-7	0.7004	0.6965	0.6996	0.6991	0.7201
KEEL yeast-0-2-5-7-9_vs_3	0.8741	0.8766	0.8769	0.8783	0.8814
KEEL yeast-0-3-5-9_vs_7-8	0.5038	0.5283	0.5348	0.5031	0.4968
KEEL yeast-0-5-6-7-9_vs_4	0.6303	0.6336	0.6190	0.6266	0.6024
KEEL yeast-1-2-8-9_vs_7	0.3833	0.3813	0.3693	0.3626	0.3291
KEEL yeast-1-4-5-8_vs_7	0.1134	0.1135	0.0878	0.0985	0.0000
KEEL yeast-1_vs_7	0.5388	0.5008	0.5424	0.4768	0.4887
KEEL yeast-2_vs_4	0.8368	0.8485	0.8572	0.8525	0.8703
KEEL yeast-2_vs_8	0.7003	0.7177	0.7007	0.7187	0.6087
KEEL yeast1	0.6793	0.6828	0.6771	0.6852	0.7003
KEEL yeast3	0.8631	0.8573	0.8648	0.8643	0.8569
KEEL yeast4	0.4814	0.4877	0.4605	0.4235	0.4467
KEEL yeast5	0.8200	0.8212	0.8224	0.7927	0.8325
KEEL yeast6	0.5981	0.6209	0.5953	0.5696	0.6233

Table 45: G-mean for SMBo ensembles, HDDT and KEEL datasets.

Table 46: AUC for RAMOBo ensembles, HDDT and KEEL datasets.

Dataset	RAMOBo	O+RAMOBo	DN+RAMOBo	RFW+RAMOBo	RF+RAMOBo
HDDT PhosS	0.7286	0.7384	0.7373	0.7424	0.7494
HDDT boundary	0.6801	0.7175	0.6934	0.7113	0.7243
HDDT breast-y	0.6074	0.6232	0.6203	0.6187	0.6464
HDDT cam	0.7697	0.7752	0.7727	0.7852	0.7733
HDDT compustat	0.9348	0.9369	0.9360	0.9300	0.9383
HDDT covtype	0.9962	0.9962	0.9963	0.9959	0.9964
HDDT credit-g	0.7258	0.7582	0.7527	0.7536	0.7764
HDDT estate	0.6071	0.6112	0.6064	0.6123	0.6207
HDDT german-numer	0.7581	0.7641	0.7667	0.7638	0.7732
HDDT heart-v	0.6487	0.6770	0.6805	0.6691	0.6711
HDDT hypo	0.9914	0.9912	0.9906	0.9911	0.9925
HDDT ism	0.9029	0.9048	0.9075	0.9045	0.9040
HDDT letter	0.9999	0.9999	1.0000	1.0000	1.0000
HDDT oil	0.9136	0.9342	0.9102	0.9181	0.9333
HDDT optdigits	0.9999	0.9999	1.0000	1.0000	1.0000
HDDT page	0.9914	0.9914	0.9912	0.9912	0.9911
HDDT pendigits	0.9999	0.9999	0.9999	0.9999	1.0000
HDDT phoneme	0.9513	0.9522	0.9533	0.9522	0.9550
HDDT satimage	0.9605	0.9616	0.9608	0.9618	0.9653
HDDT segment	0.9999	0.9998	0.9999	0.9999	1.0000
KEEL abalone19	0.7044	0.6846	0.7235	0.7253	0.7704
KEEL abalone9-18	0.8192	0.8126	0.8112	0.8137	0.9033
KEEL cleveland-0-vs-4	0.9288	0.9574	0.9606	0.9500	0.9617
KEEL ecoli-0-1-3-7_vs_2-6	0.9145	0.9321	0.9234	0.9256	0.9049
KEEL ecoli-0-1-4-6_vs_5	0.9872	0.9878	0.9882	0.9898	0.9793
KEEL ecoli-0-1-4-7_vs_2-3	0.9321	0.9352	0.9275	0.9320	0.9290
KEEL ecoli-0-1-4-7_vs_5-6	0.9678	0.9702	0.9725	0.9699	0.9736
KEEL ecoli-0-1_vs_2-3-5	0.9412	0.9499	0.9480	0.9502	0.9579
KEEL ecoli-0-1_vs_5	0.9769	0.9810	0.9805	0.9795	0.9823
KEEL ecoli-0-2-3-4_vs_5	0.9756	0.9840	0.9837	0.9868	0.9718
KEEL ecoli-0-2-6-7_vs_3-5	0.9344	0.9527	0.9338	0.9443	0.9440
KEEL ecoli-0-3-4-6_vs_5	0.9778	0.9771	0.9829	0.9844	0.9802
KEEL ecoli-0-3-4-7_vs_5-6	0.9569	0.9534	0.9566	0.9589	0.9646
KEEL ecoli-0-3-4_vs_5	0.9769	0.9742	0.9787	0.9799	0.9694
KEEL ecoli-0-4-6_vs_5	0.9794	0.9822	0.9828	0.9835	0.9796
KEEL ecoli-0-6-7_vs_3-5	0.9143	0.9519	0.9294	0.9335	0.9519
KEEL ecoli-0-6-7_vs_5	0.9651	0.9701	0.9665	0.9692	0.9661
KEEL ecoli-0_vs_1	0.9883	0.9915	0.9882	0.9932	0.9933
KEEL ecoli1	0.9414	0.9418	0.9381	0.9437	0.9532
KEEL ecoli2	0.9588	0.9671	0.9717	0.9675	0.9706
KEEL ecoli3	0.9199	0.9262	0.9256	0.9231	0.9355
KEEL ecoli4	0.9792	0.9691	0.9844	0.9840	0.9897
KEEL glass-0-1-2-3_vs_4-5	0.9733	0.9811	0.9821	0.9810	0.9863
KEEL glass-0-1-4-6_vs_2	0.7389	0.7291	0.7533	0.7590	0.8402
KEEL glass-0-1-5_vs_2	0.7391	0.7262	0.7483	0.7468	0.8321
KEEL glass-0-1-6_vs_2	0.7487	0.7506	0.7608	0.7560	0.8376
KEEL glass-0-1-6_vs_5	0.9859	0.9939	0.9963	0.9903	0.9929
KEEL glass-0-4_vs_5	0.9940	0.9985	1.0000	0.9995	0.9963
KEEL glass-0-6_vs_5	0.9869	0.9953	0.9992	0.9982	0.9992
KEEL glass0	0.8696	0.8779	0.8733	0.8740	0.8939
KEEL glass1	0.8475	0.8609	0.8635	0.8595	0.8645
KEEL glass2	0.7823	0.7662	0.8077	0.8007	0.8680
KEEL glass4	0.9437	0.9676	0.9598	0.9612	0.9780
KEEL glass5	0.9763	0.9945	0.9935	0.9880	0.9922
KEEL glass6	0.9534	0.9646	0.9593	0.9654	0.9743
KEEL haberman	0.6817	0.6789	0.6659	0.6893	0.6873
KEEL iris0	0.9860	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9691	0.9813	0.9785	0.9738	0.9769
KEEL new-thyroid1	0.9969	0.9970	0.9975	0.9969	0.9992
KEEL new-thyroid2	0.9974	0.9985	0.9988	0.9983	0.9993
KEEL page-blocks-1-3_vs_4	0.9983	0.9996	0.9994	0.9998	0.9999
KEEL pima	0.8023	0.8048	0.8071	0.8028	0.8140
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9932	0.9943	0.9936	0.9945	0.9979
KEEL vehicle1	0.8524	0.8585	0.8490	0.8526	0.8831
KEEL vehicle2	0.9967	0.9976	0.9970	0.9979	0.9988
KEEL vehicle3	0.8472	0.8493	0.8439	0.8455	0.8713
KEEL vowel0	0.9991	0.9990	0.9990	0.9992	0.9999
KEEL wisconsin	0.9931	0.9937	0.9936	0.9933	0.9936
KEEL yeast-0-2-5-6_vs_3-7	0.8439	0.8462	0.8490	0.8491	0.8537
KEEL yeast-0-2-5-7-9_vs_3	0.9430	0.9450	0.9467	0.9519	0.9461
KEEL yeast-0-3-5-9_vs_7-8	0.7610	0.7648	0.7619	0.7582	0.7664
KEEL yeast-0-5-6-7-9_vs_4	0.8857	0.8915	0.8842	0.8851	0.8840
KEEL yeast-1-2-8-9_vs_7	0.7578	0.7507	0.7678	0.7689	0.7914
KEEL yeast-1-4-5-8_vs_7	0.6818	0.6949	0.6874	0.6838	0.6818
KEEL yeast-1_vs_7	0.8048	0.8008	0.8051	0.8152	0.8026
KEEL yeast-2_vs_4	0.9732	0.9790	0.9759	0.9762	0.9803
KEEL yeast-2_vs_8	0.8161	0.8268	0.8265	0.8590	0.8333
KEEL yeast1	0.7796	0.7861	0.7845	0.7793	0.7918
KEEL yeast3	0.9664	0.9674	0.9685	0.9667	0.9741
KEEL yeast4	0.9146	0.9212	0.9191	0.9187	0.9253
KEEL yeast5	0.9846	0.9835	0.9868	0.9851	0.9898
KEEL yeast6	0.9002	0.8957	0.9049	0.9105	0.9189

Table 47: F-measure for RAMOBo ensembles, HDDT and KEEL datasets.

Dataset	RAMOBo	O+RAMOBo	DN+RAMOBo	RFW+RAMOBo	RF+RAMOBo
HDDT PhosS	0.0566	0.0064	0.0426	0.0121	0.0134
HDDT boundary	0.0744	0.0510	0.0616	0.0355	0.0094
HDDT breast-y	0.4118	0.3987	0.3970	0.4056	0.4142
HDDT cam	0.1013	0.0863	0.0919	0.0476	0.0264
HDDT compustat	0.3814	0.3937	0.3928	0.3340	0.3836
HDDT covtype	0.9054	0.9048	0.9039	0.8996	0.9047
HDDT credit-g	0.5143	0.5379	0.5383	0.5283	0.5352
HDDT estate	0.1355	0.1330	0.1660	0.1376	0.1380
HDDT german-numer	0.5292	0.5342	0.5403	0.5200	0.5596
HDDT heart-v	0.3862	0.4065	0.4081	0.4009	0.3972
HDDT hypo	0.8934	0.8893	0.8927	0.8957	0.8869
HDDT ism	0.6686	0.6754	0.6751	0.6697	0.6736
HDDT letter	0.9763	0.9776	0.9782	0.9720	0.9714
HDDT oil	0.4611	0.4629	0.4653	0.4476	0.5537
HDDT optdigits	0.9907	0.9925	0.9933	0.9922	0.9929
HDDT page	0.8681	0.8690	0.8708	0.8682	0.8677
HDDT pendigits	0.9862	0.9874	0.9877	0.9857	0.9907
HDDT phoneme	0.8155	0.8169	0.8181	0.8153	0.8180
HDDT satimage	0.6904	0.6925	0.6928	0.6864	0.6990
HDDT segment	0.9881	0.9897	0.9894	0.9912	0.9921
KEEL abalone19	0.0000	0.0000	0.0083	0.0000	0.0000
KEEL abalone9-18	0.3747	0.3604	0.3537	0.3536	0.4655
KEEL cleveland-0-vs_4	0.4463	0.4889	0.4823	0.4265	0.4799
KEEL ecoli-0-1-3-7_vs_2-6	0.3427	0.5007	0.4410	0.3043	0.5190
KEEL ecoli-0-1-4-6_vs_5	0.7869	0.7884	0.8010	0.7983	0.8092
KEEL ecoli-0-1-4-7_vs_2-3	0.6665	0.7041	0.7052	0.6762	0.7729
KEEL ecoli-0-1-4-7_vs_5-6	0.7473	0.7975	0.8121	0.7592	0.8077
KEEL ecoli-0-1_vs_2-3-5	0.6886	0.7533	0.7407	0.7249	0.7774
KEEL ecoli-0-1_vs_5	0.7314	0.7933	0.7962	0.7806	0.8338
KEEL ecoli-0-2-3-4_vs_5	0.7530	0.8080	0.7729	0.7804	0.8064
KEEL ecoli-0-2-6-7_vs_3-5	0.7190	0.7670	0.7401	0.7255	0.8099
KEEL ecoli-0-3-4-6_vs_5	0.7258	0.7687	0.7694	0.7794	0.8008
KEEL ecoli-0-3-4-7_vs_5-6	0.7757	0.8321	0.8064	0.7963	0.8286
KEEL ecoli-0-3-4_vs_5	0.7409	0.7641	0.7793	0.7482	0.7939
KEEL ecoli-0-4-6_vs_5	0.7104	0.7418	0.7940	0.7541	0.8130
KEEL ecoli-0-6-7_vs_3-5	0.6839	0.7455	0.7189	0.6945	0.7560
KEEL ecoli-0-6-7_vs_5	0.7845	0.8133	0.7863	0.7712	0.8075
KEEL ecoli-0_vs_1	0.9666	0.9666	0.9691	0.9654	0.9638
KEEL ecoli1	0.7493	0.7463	0.7625	0.7482	0.7864
KEEL ecoli2	0.7987	0.8265	0.8175	0.8218	0.8421
KEEL ecoli3	0.5417	0.5288	0.5492	0.5584	0.5315
KEEL ecoli4	0.6690	0.8177	0.7944	0.7409	0.8285
KEEL glass-0-1-2-3_vs_4-5	0.8460	0.8668	0.8516	0.8504	0.8850
KEEL glass-0-1-4-6_vs_2	0.2693	0.2575	0.2775	0.2650	0.3187
KEEL glass-0-1-5_vs_2	0.2442	0.2120	0.2487	0.2620	0.2445
KEEL glass-0-1-6_vs_2	0.1748	0.2516	0.2098	0.1704	0.2459
KEEL glass-0-1-6_vs_5	0.6741	0.7560	0.8350	0.7072	0.6479
KEEL glass-0-4_vs_5	0.9394	0.9394	0.9505	0.8969	0.8841
KEEL glass-0-6_vs_5	0.7738	0.8600	0.9155	0.7738	0.8599
KEEL glass0	0.6893	0.7040	0.7035	0.7033	0.6973
KEEL glass1	0.6960	0.7095	0.7198	0.7111	0.7124
KEEL glass2	0.2177	0.2743	0.2213	0.2003	0.2973
KEEL glass4	0.5268	0.5447	0.5130	0.5110	0.5139
KEEL glass5	0.6959	0.7714	0.8204	0.6384	0.6514
KEEL glass6	0.8232	0.8563	0.8515	0.8479	0.8556
KEEL haberman	0.4624	0.4621	0.4633	0.4486	0.4702
KEEL iris0	0.9813	0.9813	1.0000	0.9958	1.0000
KEEL led7digit-0-2-4-5-6-	0.8500	0.8293	0.8500	0.8718	0.8095
KEEL new-thyroid1	0.9171	0.9197	0.9171	0.9200	0.9594
KEEL new-thyroid2	0.9296	0.9483	0.9483	0.9481	0.9775
KEEL page-blocks-1-3_vs_4	0.9303	0.9515	0.9303	0.9709	0.9697
KEEL pima	0.6475	0.6623	0.6582	0.6510	0.6664
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	0.9992	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9171
KEEL vehicle0	0.9148	0.9219	0.9112	0.9185	0.9481
KEEL vehicle1	0.5933	0.6053	0.5989	0.5888	0.6586
KEEL vehicle2	0.9571	0.9630	0.9604	0.9657	0.9731
KEEL vehicle3	0.5696	0.5734	0.5683	0.5728	0.6325
KEEL vowel0	0.9583	0.9444	0.9603	0.9608	0.9825
KEEL wisconsin	0.9505	0.9502	0.9519	0.9584	0.9637
KEEL yeast-0-2-5-6_vs_3-7	0.5750	0.5888	0.5872	0.5734	0.6194
KEEL yeast-0-2-5-7-9_vs_3	0.7952	0.8002	0.8043	0.8007	0.8151
KEEL yeast-0-3-5-9_vs_7-8	0.3834	0.3775	0.3944	0.3512	0.3898
KEEL yeast-0-5-6-7-9_vs_4	0.4750	0.4860	0.4619	0.4995	0.4849
KEEL yeast-1-2-8-9_vs_7	0.2662	0.2755	0.2916	0.2548	0.2586
KEEL yeast-1-4-5-8_vs_7	0.0756	0.0788	0.0624	0.0604	0.0100
KEEL yeast-1_vs_7	0.3712	0.3619	0.3685	0.3285	0.3657
KEEL yeast-2_vs_4	0.7605	0.7628	0.7587	0.7652	0.7868
KEEL yeast-2_vs_8	0.5464	0.5946	0.5882	0.6026	0.6061
KEEL yeast1	0.5878	0.5816	0.5748	0.5815	0.5887
KEEL yeast3	0.7672	0.7708	0.7672	0.7693	0.7790
KEEL yeast4	0.3283	0.3478	0.3326	0.3145	0.3662
KEEL yeast5	0.7097	0.7146	0.7126	0.7147	0.7294
KEEL yeast6	0.4374	0.4728	0.4393	0.4458	0.4997

Table 48: G-mean for RAMOBo ensembles, HDDT and KEEL datasets.

Dataset	RAMOBo	O+ RAMOBo	DN+ RAMOBo	RFW+ RAMOBo	RF+ RAMOBo
HDDT PhosS	0.1704	0.0359	0.1421	0.0629	0.0739
HDDT boundary	0.1979	0.1582	0.1771	0.1229	0.0382
HDDT breast-y	0.5537	0.5416	0.5413	0.5479	0.5509
HDDT cam	0.2363	0.2147	0.2233	0.1559	0.1137
HDDT compustat	0.5049	0.5106	0.5116	0.4586	0.5005
HDDT covtype	0.9439	0.9434	0.9430	0.9391	0.9466
HDDT credit-g	0.6370	0.6519	0.6530	0.6456	0.6450
HDDT estate	0.2977	0.2967	0.3490	0.2993	0.2985
HDDT german-numer	0.6431	0.6474	0.6524	0.6327	0.6707
HDDT heart-v	0.5499	0.5630	0.5633	0.5608	0.5470
HDDT hypo	0.9495	0.9421	0.9442	0.9443	0.9392
HDDT ism	0.7970	0.8013	0.8013	0.7943	0.8048
HDDT letter	0.9774	0.9789	0.9791	0.9728	0.9719
HDDT oil	0.5981	0.5910	0.5954	0.5704	0.6516
HDDT optdigits	0.9914	0.9934	0.9939	0.9924	0.9929
HDDT page	0.9368	0.9392	0.9391	0.9384	0.9403
HDDT pendigits	0.9887	0.9901	0.9899	0.9881	0.9933
HDDT phoneme	0.8791	0.8800	0.8806	0.8810	0.8819
HDDT satimage	0.7963	0.7946	0.7955	0.7868	0.8112
HDDT segment	0.9924	0.9930	0.9932	0.9937	0.9934
KEEL abalone19	0.0000	0.0000	0.0250	0.0000	0.0000
KEEL abalone9-18	0.5610	0.5505	0.5383	0.5335	0.6034
KEEL cleveland-0-vs_4	0.5914	0.5893	0.5894	0.5129	0.5729
KEEL ecoli-0-1-3-7_vs_2-6	0.5265	0.6390	0.6266	0.4054	0.6163
KEEL ecoli-0-1-4-6_vs_5	0.8895	0.8592	0.8804	0.8808	0.8551
KEEL ecoli-0-1-4-7_vs_2-3	0.7985	0.8174	0.8271	0.7915	0.8461
KEEL ecoli-0-1-4-7_vs_5-6	0.8381	0.8595	0.8804	0.8341	0.8519
KEEL ecoli-0-1_vs_2-3-5	0.8324	0.8610	0.8639	0.8414	0.8602
KEEL ecoli-0-1_vs_5	0.8368	0.8531	0.8650	0.8516	0.8827
KEEL ecoli-0-2-3-4_vs_5	0.8834	0.8919	0.8819	0.8830	0.8818
KEEL ecoli-0-2-6-7_vs_3-5	0.8352	0.8560	0.8522	0.8407	0.8567
KEEL ecoli-0-3-4-6_vs_5	0.8649	0.8773	0.8773	0.8931	0.8584
KEEL ecoli-0-3-4-7_vs_5-6	0.8639	0.8909	0.8832	0.8617	0.8872
KEEL ecoli-0-3-4_vs_5	0.8376	0.8614	0.8718	0.8486	0.8561
KEEL ecoli-0-4-6_vs_5	0.8309	0.8281	0.8793	0.8483	0.8687
KEEL ecoli-0-6-7_vs_3-5	0.7952	0.8300	0.8122	0.7952	0.8317
KEEL ecoli-0-6-7_vs_5	0.8829	0.8958	0.8784	0.8710	0.8704
KEEL ecoli-0_vs_1	0.9757	0.9757	0.9771	0.9750	0.9731
KEEL ecoli1	0.8485	0.8449	0.8578	0.8482	0.8801
KEEL ecoli2	0.8623	0.8787	0.8755	0.8725	0.8922
KEEL ecoli3	0.7163	0.7043	0.7173	0.7234	0.6992
KEEL ecoli4	0.7897	0.8873	0.8692	0.8305	0.8790

Dataset	RAMOBo	O+ RAMOBo	DN+ RAMOBo	RFW+ RAMOBo	RF+ RAMOBo
KEEL glass-0-1-2-3_vs_4-5	0.8953	0.9094	0.8965	0.8971	0.9277
KEEL glass-0-1-4-6_vs_2	0.4472	0.3909	0.4286	0.3994	0.4597
KEEL glass-0-1-5_vs_2	0.4069	0.3404	0.3994	0.4140	0.4004
KEEL glass-0-1-6_vs_2	0.3272	0.4042	0.3563	0.3237	0.3822
KEEL glass-0-1-6_vs_5	0.8288	0.8568	0.9219	0.8119	0.7319
KEEL glass-0-4_vs_5	0.9834	0.9834	0.9939	0.9446	0.8966
KEEL glass-0-6_vs_5	0.8493	0.9155	0.9395	0.8434	0.8711
KEEL glass0	0.7676	0.7793	0.7800	0.7799	0.7762
KEEL glass1	0.7605	0.7715	0.7803	0.7723	0.7748
KEEL glass2	0.3926	0.4374	0.3981	0.3424	0.4475
KEEL glass4	0.6849	0.6737	0.6548	0.6446	0.6086
KEEL glass5	0.8062	0.8688	0.9151	0.7311	0.7215
KEEL glass6	0.8991	0.9079	0.9070	0.9065	0.9014
KEEL haberman	0.6178	0.6203	0.6206	0.6065	0.6259
KEEL iris0	0.9816	0.9816	1.0000	0.9959	1.0000
KEEL led7digit-0-2-4-5-6-	0.9365	0.9342	0.9365	0.9389	0.9318
KEEL new-thyroid1	0.9480	0.9485	0.9501	0.9530	0.9732
KEEL new-thyroid2	0.9487	0.9644	0.9644	0.9642	0.9887
KEEL page-blocks-1-3_vs_4	0.9667	0.9832	0.9667	0.9810	0.9911
KEEL pima	0.7250	0.7373	0.7335	0.7280	0.7396
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	0.9999	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9609
KEEL vehicle0	0.9507	0.9546	0.9503	0.9541	0.9754
KEEL vehicle1	0.7212	0.7308	0.7271	0.7182	0.7804
KEEL vehicle2	0.9726	0.9762	0.9753	0.9781	0.9837
KEEL vehicle3	0.7028	0.7058	0.7025	0.7046	0.7616
KEEL vowel0	0.9805	0.9688	0.9787	0.9818	0.9942
KEEL wisconsin	0.9627	0.9628	0.9643	0.9704	0.9764
KEEL yeast-0-2-5-6_vs_3-7	0.7167	0.7233	0.7219	0.7132	0.7397
KEEL yeast-0-2-5-7-9_vs_3	0.8756	0.8803	0.8828	0.8793	0.8899
KEEL yeast-0-3-5-9_vs_7-8	0.5541	0.5482	0.5629	0.5228	0.5427
KEEL yeast-0-5-6-7-9_vs_4	0.6502	0.6573	0.6331	0.6644	0.6437
KEEL yeast-1-2-8-9_vs_7	0.4088	0.4345	0.4404	0.4056	0.3913
KEEL yeast-1-4-5-8_vs_7	0.1577	0.1579	0.1241	0.1241	0.0257
KEEL yeast-1_vs_7	0.5720	0.5475	0.5464	0.5028	0.5295
KEEL yeast-2_vs_4	0.8692	0.8675	0.8653	0.8623	0.8768
KEEL yeast-2_vs_8	0.6999	0.7173	0.7100	0.7111	0.6870
KEEL yeast1	0.7056	0.7006	0.6947	0.7004	0.7090
KEEL yeast3	0.8733	0.8721	0.8722	0.8730	0.8722
KEEL yeast4	0.5136	0.5249	0.5110	0.4844	0.5304
KEEL yeast5	0.8477	0.8497	0.8499	0.8350	0.8498
KEEL yeast6	0.6182	0.6371	0.6129	0.5975	0.6496

Table 49: AUC for RUSBo ensembles, HDDT and KEEL datasets.

Dataset	RUSBo	O+ RUSBo	DN+ RUSBo	RFW+ RUSBo	RF+ RUSBo
HDDT PhosS	0.7649	0.7682	0.7670	0.7648	0.7513
HDDT boundary	0.6873	0.6916	0.6949	0.7278	0.7330
HDDT breast-y	0.6361	0.6504	0.6435	0.6391	0.6488
HDDT cam	0.8060	0.8119	0.8064	0.8092	0.8124
HDDT compustat	0.8912	0.8967	0.9090	0.8935	0.8992
HDDT covtype	0.9930	0.9927	0.9930	0.9927	0.9931
HDDT credit-g	0.7422	0.7498	0.7498	0.7476	0.7631
HDDT estate	0.6395	0.6476	0.6444	0.6417	0.6549
HDDT german-numer	0.7522	0.7516	0.7533	0.7457	0.7637
HDDT heart-v	0.6690	0.6724	0.6714	0.6709	0.6892
HDDT hypo	0.9898	0.9905	0.9901	0.9911	0.9918
HDDT ism	0.9404	0.9430	0.9398	0.9399	0.9375
HDDT letter	0.9998	0.9996	0.9998	0.9997	0.9997
HDDT oil	0.9079	0.9187	0.9083	0.9082	0.9165
HDDT optdigits	0.9999	0.9999	1.0000	0.9999	0.9999
HDDT page	0.9909	0.9912	0.9910	0.9906	0.9904
HDDT pendigits	0.9999	0.9999	0.9999	0.9999	0.9999
HDDT phoneme	0.9447	0.9458	0.9479	0.9452	0.9491
HDDT satimage	0.9524	0.9534	0.9544	0.9531	0.9513
HDDT segment	0.9998	0.9999	0.9999	0.9999	1.0000
KEEL abalone19	0.7686	0.7769	0.7871	0.7766	0.8378
KEEL abalone9-18	0.7815	0.7809	0.7956	0.7821	0.9159
KEEL cleveland-0_vs_4	0.9420	0.9354	0.9526	0.9552	0.9464
KEEL ecoli-0-1-3-7_vs_2-6	0.9202	0.9543	0.9465	0.9396	0.9254
KEEL ecoli-0-1-4-6_vs_5	0.9784	0.9802	0.9816	0.9827	0.9803
KEEL ecoli-0-1-4-7_vs_2-3	0.9223	0.9273	0.9337	0.9260	0.9255
KEEL ecoli-0-1-4-7_vs_5-6	0.9647	0.9707	0.9730	0.9675	0.9629
KEEL ecoli-0-1_vs_2-3-5	0.9364	0.9442	0.9505	0.9363	0.9398
KEEL ecoli-0-1_vs_5	0.9798	0.9773	0.9845	0.9842	0.9796
KEEL ecoli-0-2-3-4_vs_5	0.9822	0.9754	0.9871	0.9844	0.9552
KEEL ecoli-0-2-6-7_vs_3-5	0.9102	0.9133	0.9241	0.9069	0.9293
KEEL ecoli-0-3-4-6_vs_5	0.9650	0.9636	0.9678	0.9697	0.9689
KEEL ecoli-0-3-4-7_vs_5-6	0.9598	0.9607	0.9611	0.9622	0.9568
KEEL ecoli-0-3-4_vs_5	0.9788	0.9766	0.9840	0.9820	0.9602
KEEL ecoli-0-4-6_vs_5	0.9741	0.9779	0.9804	0.9787	0.9600
KEEL ecoli-0-6-7_vs_3-5	0.8904	0.9161	0.9176	0.8999	0.9215
KEEL ecoli-0-6-7_vs_5	0.9598	0.9561	0.9578	0.9596	0.9416
KEEL ecoli-0.vs_1	0.9902	0.9917	0.9932	0.9913	0.9935
KEEL ecoli1	0.9503	0.9460	0.9528	0.9514	0.9501
KEEL ecoli2	0.9650	0.9687	0.9688	0.9634	0.9606
KEEL ecoli3	0.9239	0.9245	0.9283	0.9169	0.9361
KEEL ecoli4	0.9869	0.9901	0.9906	0.9868	0.9894

Dataset	RUSBo	O+ RUSBo	DN+ RUSBo	RFW+ RUSBo	RF+ RUSBo
KEEL glass-0-1-2-3-vs-4-5	0.9697	0.9804	0.9776	0.9756	0.9835
KEEL glass-0-1-4-6-vs_2	0.7410	0.7410	0.8026	0.7178	0.8712
KEEL glass-0-1-5-vs_2	0.7339	0.7289	0.7790	0.7324	0.8405
KEEL glass-0-1-6-vs_2	0.6851	0.7275	0.7863	0.6781	0.8394
KEEL glass-0-1-6-vs_5	0.9965	0.9967	0.9935	0.9955	0.9938
KEEL glass-0-4-vs_5	0.9930	0.9990	0.9995	1.0000	0.9995
KEEL glass-0-6-vs_5	0.9950	0.9961	0.9996	0.9950	0.9971
KEEL glass0	0.8889	0.8922	0.8917	0.8920	0.8891
KEEL glass1	0.8540	0.8658	0.8730	0.8548	0.8640
KEEL glass2	0.7534	0.7746	0.8255	0.7491	0.8684
KEEL glass4	0.9248	0.9542	0.9619	0.9176	0.9675
KEEL glass5	0.9938	0.9907	0.9947	0.9891	0.9867
KEEL glass6	0.9531	0.9651	0.9607	0.9544	0.9706
KEEL haberman	0.7028	0.7025	0.6721	0.7013	0.6812
KEEL iris0	0.9820	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9590	0.9618	0.9638	0.9588	0.9615
KEEL new-thyroid1	0.9965	0.9978	0.9978	0.9971	0.9985
KEEL new-thyroid2	0.9973	0.9982	0.9988	0.9979	0.9989
KEEL page-blocks-1-3_vs_4	0.9997	0.9999	1.0000	0.9999	0.9998
KEEL pima	0.8024	0.7986	0.8062	0.8027	0.8140
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9995
KEEL vehicle0	0.9949	0.9957	0.9958	0.9963	0.9983
KEEL vehicle1	0.8486	0.8493	0.8463	0.8481	0.8863
KEEL vehicle2	0.9979	0.9978	0.9977	0.9978	0.9989
KEEL vehicle3	0.8463	0.8442	0.8343	0.8492	0.8759
KEEL vowel0	0.9987	0.9988	0.9994	0.9992	0.9996
KEEL wisconsin	0.9921	0.9920	0.9928	0.9925	0.9938
KEEL yeast-0-2-5-6_vs_3-7	0.8527	0.8501	0.8577	0.8501	0.8558
KEEL yeast-0-2-5-7-9-vs_3	0.9464	0.9508	0.9552	0.9470	0.9450
KEEL yeast-0-3-5-9-vs_7-8	0.7631	0.7658	0.7714	0.7641	0.7685
KEEL yeast-0-5-6-7-9-vs_4	0.8871	0.8899	0.8892	0.8900	0.8800
KEEL yeast-1-2-8-9_vs_7	0.7857	0.7704	0.7801	0.7802	0.7619
KEEL yeast-1-4-5-8_vs_7	0.6828	0.6846	0.6919	0.6859	0.6828
KEEL yeast-1_vs_7	0.8148	0.8169	0.8158	0.8317	0.8145
KEEL yeast-2_vs_4	0.9730	0.9755	0.9768	0.9716	0.9792
KEEL yeast-2_vs_8	0.8086	0.8397	0.8221	0.8250	0.8125
KEEL yeast1	0.7907	0.7890	0.7791	0.7862	0.7959
KEEL yeast3	0.9682	0.9702	0.9709	0.9684	0.9705
KEEL yeast4	0.9272	0.9300	0.9318	0.9284	0.9188
KEEL yeast5	0.9889	0.9884	0.9895	0.9883	0.9896
KEEL yeast6	0.9244	0.9261	0.9325	0.9215	0.9248

Table 50: F-measure for RUSBo ensembles, HDDT and KEEL datasets.

Dataset	RUSBo	O+ RUSBo	DN+ RUSBo	RFW+ RUSBo	RF+ RUSBo	Dataset	RUSBo	O+ RUSBo	DN+ RUSBo	RFW+ RUSBo	RF+ RUSBo
HDDT PhosS	0.2464	0.2631	0.2540	0.2427	0.2539	KEEL glass-0-1-2-3-vs-4-5	0.8445	0.8539	0.8577	0.8525	0.8953
HDDT boundary	0.1367	0.1435	0.1333	0.1542	0.1623	KEEL glass-0-1-4-6-vs_2	0.2702	0.2648	0.3409	0.2558	0.3283
HDDT breast-y	0.4571	0.4584	0.4488	0.4525	0.4537	KEEL glass-0-1-5-vs_2	0.2399	0.2902	0.3470	0.2027	0.3121
HDDT cam	0.2458	0.2621	0.2554	0.2477	0.2798	KEEL glass-0-1-6-vs_2	0.2198	0.2471	0.2764	0.2503	0.3096
HDDT compustat	0.3045	0.3153	0.3391	0.3034	0.3160	KEEL glass-0-1-6-vs_5	0.8163	0.7817	0.7988	0.8044	0.7425
HDDT covtype	0.8098	0.8099	0.8104	0.8126	0.8181	KEEL glass-0-4-vs_5	0.9140	0.9140	0.9889	0.9140	0.8841
HDDT credit-g	0.5185	0.5249	0.5223	0.5206	0.5372	KEEL glass-0-6-vs_5	0.8605	0.9013	0.9437	0.9029	0.8889
HDDT estate	0.2699	0.2722	0.2601	0.2730	0.2798	KEEL glass0	0.7420	0.7335	0.7227	0.7296	0.6927
HDDT german-numer	0.5392	0.5281	0.5247	0.5207	0.5426	KEEL glass1	0.7077	0.7036	0.7222	0.6942	0.6978
HDDT heart-v	0.4095	0.3988	0.4173	0.3949	0.4106	KEEL glass2	0.2290	0.2674	0.3589	0.2355	0.3622
HDDT hypo	0.8117	0.7960	0.8166	0.8038	0.8225	KEEL glass4	0.5728	0.6425	0.6396	0.6098	0.5793
HDDT ism	0.4418	0.4651	0.4723	0.4447	0.4844	KEEL glass5	0.8224	0.7839	0.8342	0.7939	0.7131
HDDT letter	0.9656	0.9592	0.9574	0.9643	0.9643	KEEL glass6	0.8524	0.8604	0.8659	0.8376	0.8285
HDDT oil	0.4217	0.4660	0.4143	0.4455	0.4946	KEEL haberman	0.5014	0.4799	0.4420	0.4952	0.4854
HDDT optdigits	0.9928	0.9929	0.9935	0.9935	0.9931	KEEL iris0	0.9813	0.9813	1.0000	0.9917	1.0000
HDDT page	0.8531	0.8470	0.8534	0.8497	0.8542	KEEL led7digit-0-2-4-5-6-	0.6979	0.7350	0.7142	0.7033	0.7252
HDDT pendigits	0.9852	0.9866	0.9901	0.9867	0.9886	KEEL new-thyroid1	0.9304	0.9504	0.9503	0.9437	0.9592
HDDT phoneme	0.8053	0.8118	0.8122	0.8067	0.8127	KEEL new-thyroid2	0.9387	0.9537	0.9574	0.9400	0.9654
HDDT satimage	0.6347	0.6399	0.6330	0.6361	0.6402	KEEL page-blocks-1-3_vs_4	0.9355	0.9460	0.9678	0.9506	0.9617
HDDT segment	0.9921	0.9921	0.9924	0.9912	0.9930	KEEL pima	0.6281	0.6245	0.6289	0.6297	0.6485
KEEL abalone19	0.0399	0.0404	0.0483	0.0400	0.0685	KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL abalone9-18	0.2863	0.3078	0.3124	0.2931	0.5334	KEEL shuttle-c2-vs-c4	0.7900	0.9400	1.0000	0.9000	0.9657
KEEL cleveland-0_vs_4	0.6296	0.5771	0.6250	0.6089	0.4999	KEEL vehicle0	0.9242	0.9302	0.9258	0.9260	0.9585
KEEL ecoli-0-1-3-7_vs_2-6	0.3827	0.4730	0.4445	0.3191	0.3559	KEEL vehicle1	0.5824	0.5746	0.5801	0.5891	0.6254
KEEL ecoli-0-1-4-6_vs_5	0.7684	0.7918	0.8264	0.7683	0.7696	KEEL vehicle2	0.9663	0.9659	0.9636	0.9664	0.9749
KEEL ecoli-0-1-4-7_vs_2-3	0.6844	0.6936	0.7520	0.7047	0.7119	KEEL vehicle3	0.5815	0.5708	0.5548	0.5679	0.6127
KEEL ecoli-0-1-4-7_vs_5-6	0.7064	0.7599	0.8074	0.7181	0.7681	KEEL vowel0	0.9432	0.9417	0.9595	0.9495	0.9729
KEEL ecoli-0-1_vs_2-3-5	0.7204	0.7526	0.7581	0.7210	0.7411	KEEL wisconsin	0.9502	0.9512	0.9527	0.9539	0.9566
KEEL ecoli-0-1_vs_5	0.7612	0.8049	0.8368	0.7886	0.7930	KEEL yeast-0-2-5-6-vs_3-7	0.5546	0.5682	0.5867	0.5437	0.5993
KEEL ecoli-0-2-3-4_vs_5	0.7708	0.8048	0.8135	0.7780	0.8019	KEEL yeast-0-2-5-7-9-vs_3	0.7717	0.7801	0.7736	0.7799	0.7709
KEEL ecoli-0-2-6-7_vs_3-5	0.7249	0.7256	0.7394	0.7310	0.7592	KEEL yeast-0-3-5-9-vs_7-8	0.3943	0.4173	0.3997	0.4133	0.3913
KEEL ecoli-0-3-4-6_vs_5	0.7545	0.7637	0.8073	0.7388	0.8231	KEEL yeast-0-5-6-7-9-vs_4	0.5222	0.5185	0.5212	0.5204	0.5256
KEEL ecoli-0-3-4-7_vs_5-6	0.7825	0.7799	0.7878	0.7781	0.8015	KEEL yeast-1-2-8-9-vs_7	0.2144	0.2339	0.2321	0.2115	0.2312
KEEL ecoli-0-3-4_vs_5	0.7738	0.7911	0.8211	0.7744	0.7732	KEEL yeast-1-4-5-8-vs_7	0.1847	0.1996	0.1924	0.1759	0.2002
KEEL ecoli-0-4-6_vs_5	0.7209	0.7690	0.8130	0.7423	0.7866	KEEL yeast-1_vs_7	0.3819	0.3935	0.3773	0.4079	0.3608
KEEL ecoli-0-6-7_vs_3-5	0.6864	0.7182	0.7133	0.6950	0.7226	KEEL yeast-2_vs_4	0.7310	0.7371	0.7517	0.7260	0.7641
KEEL ecoli-0-6-7_vs_5	0.7734	0.7789	0.7724	0.7809	0.7937	KEEL yeast-2_vs_8	0.5354	0.5213	0.5589	0.5200	0.5808
KEEL ecoli-0.vs_1	0.9691	0.9678	0.9691	0.9678	0.9701	KEEL yeast1	0.5899	0.5877	0.5601	0.5871	0.5940
KEEL ecoli1	0.7711	0.7585	0.7853	0.7728	0.7693	KEEL yeast3	0.7676	0.7738	0.7761	0.7625	0.7577
KEEL ecoli2	0.8215	0.8239	0.8347	0.8206	0.8439	KEEL yeast4	0.3540	0.3647	0.3576	0.3536	0.3981
KEEL ecoli3	0.5899	0.5981	0.6228	0.5891	0.5854	KEEL yeast5	0.6152	0.6300	0.6027	0.6231	0.6627
KEEL ecoli4	0.7749	0.8389	0.8456	0.8034	0.8085	KEEL yeast6	0.3793	0.4098	0.3837	0.3794	0.4271

Table 51: G-mean for RUSBo ensembles, HDDT and KEEL datasets.

Dataset	RUSBo	O+RUSBo	DN+RUSBo	RFW+RUSBo	RF+RUSBo
HDDT PhosS	0.6607	0.6142	0.6453	0.6696	0.5126
HDDT boundary	0.5793	0.5787	0.5731	0.6232	0.5605
HDDT breast-y	0.5933	0.5935	0.5860	0.5891	0.5894
HDDT cam	0.7208	0.7191	0.7182	0.7253	0.6953
HDDT compustat	0.7809	0.7770	0.7822	0.7818	0.7784
HDDT covtype	0.9600	0.9588	0.9602	0.9602	0.9581
HDDT credit-g	0.6389	0.6407	0.6393	0.6383	0.6491
HDDT estate	0.5976	0.5998	0.5675	0.6022	0.6098
HDDT german-numer	0.6553	0.6464	0.6430	0.6399	0.6536
HDDT heart-v	0.5775	0.5659	0.5774	0.5643	0.5633
HDDT hypo	0.9628	0.9566	0.9638	0.9653	0.9605
HDDT ism	0.8907	0.8973	0.8980	0.8913	0.8972
HDDT letter	0.9905	0.9878	0.9904	0.9898	0.9852
HDDT oil	0.7790	0.7896	0.7695	0.7891	0.7559
HDDT optdigits	0.9952	0.9954	0.9959	0.9953	0.9944
HDDT page	0.9568	0.9542	0.9578	0.9551	0.9534
HDDT pendigits	0.9929	0.9936	0.9958	0.9931	0.9946
HDDT phoneme	0.8679	0.8716	0.8698	0.8693	0.8712
HDDT satimage	0.8599	0.8611	0.8652	0.8600	0.8579
HDDT segment	0.9944	0.9949	0.9954	0.9940	0.9943
KEEL abalone19	0.5800	0.5566	0.6322	0.5693	0.5858
KEEL abalone9-18	0.6250	0.6300	0.6512	0.6268	0.7493
KEEL cleveland-0_vs_4	0.7890	0.7400	0.7879	0.7655	0.6303
KEEL ecoli-0-1-3-7_vs_2-6	0.7142	0.8015	0.7990	0.6546	0.5709
KEEL ecoli-0-1-4-6_vs_5	0.8579	0.8844	0.8930	0.8634	0.8571
KEEL ecoli-0-1-4-7_vs_2-3	0.8502	0.8341	0.8725	0.8569	0.8148
KEEL ecoli-0-1-4-7_vs_5-6	0.8378	0.8684	0.9066	0.8431	0.8526
KEEL ecoli-0-1_vs_2-3-5	0.8540	0.8699	0.8671	0.8573	0.8468
KEEL ecoli-0-1_vs_5	0.8607	0.8795	0.8988	0.8783	0.8649
KEEL ecoli-0-2-3-4_vs_5	0.8913	0.8962	0.8922	0.8833	0.8809
KEEL ecoli-0-2-6-7_vs_3-5	0.8551	0.8370	0.8440	0.8477	0.8276
KEEL ecoli-0-3-4-6_vs_5	0.8668	0.8591	0.8796	0.8687	0.8809
KEEL ecoli-0-3-4-7_vs_5-6	0.8810	0.8732	0.8934	0.8873	0.8688
KEEL ecoli-0-3-4_vs_5	0.8527	0.8654	0.8901	0.8626	0.8481
KEEL ecoli-0-4-6_vs_5	0.8312	0.8720	0.8925	0.8498	0.8745
KEEL ecoli-0-6-7_vs_3-5	0.8358	0.8457	0.8300	0.8328	0.8125
KEEL ecoli-0-6-7_vs_5	0.8906	0.8818	0.8814	0.8920	0.8739
KEEL ecoli-0.vs_1	0.9771	0.9764	0.9771	0.9764	0.9766
KEEL ecoli1	0.8640	0.8522	0.8737	0.8641	0.8604
KEEL ecoli2	0.8878	0.8878	0.8972	0.8839	0.8975
KEEL ecoli3	0.7980	0.7974	0.8292	0.7931	0.7723
KEEL ecoli4	0.9046	0.9302	0.9305	0.9125	0.8855

Dataset	RUSBo	O+RUSBo	DN+RUSBo	RFW+RUSBo	RF+RUSBo
KEEL glass-0-1-2-3_vs_4-5	0.8960	0.8985	0.9023	0.8975	0.9337
KEEL glass-0-1-4-6_vs_2	0.4813	0.4834	0.5954	0.4790	0.5035
KEEL glass-0-1-5_vs_2	0.4481	0.4899	0.6016	0.4124	0.5073
KEEL glass-0-1-6_vs_2	0.4410	0.4493	0.4725	0.4557	0.4909
KEEL glass-0-1-6_vs_5	0.9325	0.8859	0.9426	0.9316	0.8392
KEEL glass-0-4_vs_5	0.9594	0.9594	0.9894	0.9594	0.9060
KEEL glass-0-6_vs_5	0.9300	0.9501	0.9649	0.9522	0.8993
KEEL glass0	0.8094	0.8015	0.7945	0.7988	0.7677
KEEL glass1	0.7702	0.7630	0.7783	0.7578	0.7586
KEEL glass2	0.4614	0.5043	0.6234	0.4598	0.5299
KEEL glass4	0.7432	0.7818	0.8001	0.7850	0.7084
KEEL glass5	0.9433	0.9058	0.9167	0.9063	0.8127
KEEL glass6	0.9136	0.9144	0.9154	0.9076	0.8902
KEEL haberman	0.6531	0.6339	0.5992	0.6471	0.6369
KEEL iris0	0.9816	0.9816	1.0000	0.9918	1.0000
KEEL led7digit-0-2-4-5-6-	0.8780	0.8935	0.8876	0.8760	0.8766
KEEL new-thyroid1	0.9534	0.9690	0.9667	0.9603	0.9732
KEEL new-thyroid2	0.9554	0.9678	0.9732	0.9625	0.9748
KEEL page-blocks-1-3_vs_4	0.9921	0.9927	0.9977	0.9898	0.9871
KEEL pima	0.7094	0.7064	0.7087	0.7108	0.7261
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	0.8027	0.9449	1.0000	0.9000	0.9808
KEEL vehicle0	0.9596	0.9644	0.9612	0.9615	0.9768
KEEL vehicle1	0.7117	0.7066	0.7119	0.7156	0.7392
KEEL vehicle2	0.9795	0.9802	0.9779	0.9804	0.9840
KEEL vehicle3	0.7070	0.6984	0.6878	0.6972	0.7237
KEEL vowel0	0.9748	0.9726	0.9837	0.9846	0.9912
KEEL wisconsin	0.9630	0.9630	0.9649	0.9663	0.9703
KEEL yeast-0-2-5-6_vs_3-7	0.7827	0.7770	0.7841	0.7685	0.7855
KEEL yeast-0-2-5-7-9_vs_3	0.8980	0.9039	0.8984	0.8992	0.8868
KEEL yeast-0-3-5-9_vs_7-8	0.6572	0.6541	0.6482	0.6713	0.6201
KEEL yeast-0-5-6-7-9_vs_4	0.7540	0.7393	0.7537	0.7460	0.7222
KEEL yeast-1-2-8-9_vs_7	0.6592	0.6420	0.6600	0.6556	0.5888
KEEL yeast-1-4-5-8_vs_7	0.6075	0.5841	0.5944	0.5904	0.5343
KEEL yeast-1_vs_7	0.7079	0.7067	0.7034	0.7306	0.6286
KEEL yeast-2_vs_4	0.8756	0.8732	0.8858	0.8743	0.8746
KEEL yeast-2_vs_8	0.7223	0.6965	0.7348	0.7095	0.6860
KEEL yeast1	0.7084	0.7055	0.6757	0.7075	0.7142
KEEL yeast3	0.9105	0.9094	0.9104	0.9074	0.8950
KEEL yeast4	0.8108	0.7983	0.8151	0.8160	0.7689
KEEL yeast5	0.9391	0.9197	0.9323	0.9350	0.9103
KEEL yeast6	0.8380	0.8258	0.8481	0.8093	0.8008

Table 51: G-mean for RUSBo ensembles, HDDT and KEEL datasets.

Table 52: AUC for RBBo ensembles, HDDT and KEEL datasets.

Dataset	RBBo	O+ RBBo	DN+ RBBo	RFW+ RBBo	RF+ RBBo
HDDT PhosS	0.7297	0.7254	0.7320	0.7307	0.7277
HDDT boundary	0.7042	0.7121	0.7079	0.7129	0.6857
HDDT breast-y	0.6255	0.6439	0.6360	0.6322	0.6539
HDDT cam	0.7657	0.7693	0.7696	0.7786	0.7674
HDDT compustat	0.9323	0.9351	0.9353	0.9297	0.9362
HDDT covtype	0.9960	0.9960	0.9958	0.9954	0.9962
HDDT credit-g	0.7521	0.7644	0.7668	0.7620	0.7670
HDDT estate	0.6119	0.6138	0.6157	0.6156	0.6219
HDDT german-numer	0.7649	0.7617	0.7658	0.7606	0.7701
HDDT heart-v	0.6976	0.6964	0.6939	0.6999	0.6782
HDDT hypo	0.9918	0.9928	0.9922	0.9927	0.9931
HDDT ism	0.9160	0.9138	0.9159	0.9137	0.9167
HDDT letter	0.9999	1.0000	0.9999	0.9999	1.0000
HDDT oil	0.9270	0.9275	0.9287	0.9327	0.9361
HDDT optdigits	1.0000	1.0000	1.0000	1.0000	1.0000
HDDT page	0.9909	0.9913	0.9912	0.9911	0.9906
HDDT pendigits	1.0000	1.0000	1.0000	1.0000	1.0000
HDDT phoneme	0.9505	0.9503	0.9516	0.9499	0.9527
HDDT satimage	0.9624	0.9617	0.9625	0.9616	0.9632
HDDT segment	0.9999	0.9999	0.9999	0.9999	1.0000
KEEL abalone19	0.7168	0.7081	0.7307	0.7306	0.7737
KEEL abalone9-18	0.8043	0.8068	0.8085	0.8052	0.8930
KEEL cleveland-0_vs_4	0.9573	0.9582	0.9643	0.9589	0.9637
KEEL ecoli-0-1-3-7_vs_2-6	0.9155	0.9053	0.9283	0.9161	0.9221
KEEL ecoli-0-1-4-6_vs_5	0.9880	0.9875	0.9878	0.9909	0.9795
KEEL ecoli-0-1-4-7_vs_2-3	0.9428	0.9388	0.9371	0.9419	0.9348
KEEL ecoli-0-1-4-7_vs_5-6	0.9663	0.9760	0.9731	0.9694	0.9642
KEEL ecoli-0-1_vs_2-3-5	0.9475	0.9519	0.9447	0.9470	0.9495
KEEL ecoli-0-1_vs_5	0.9837	0.9834	0.9837	0.9848	0.9832
KEEL ecoli-0-2-3-4_vs_5	0.9845	0.9854	0.9866	0.9877	0.9689
KEEL ecoli-0-2-6-7_vs_3-5	0.9309	0.9419	0.9285	0.9396	0.9404
KEEL ecoli-0-3-4-6_vs_5	0.9787	0.9815	0.9716	0.9856	0.9781
KEEL ecoli-0-3-4-7_vs_5-6	0.9649	0.9651	0.9646	0.9654	0.9508
KEEL ecoli-0-3-4_vs_5	0.9818	0.9791	0.9849	0.9826	0.9716
KEEL ecoli-0-4-6_vs_5	0.9834	0.9838	0.9847	0.9863	0.9803
KEEL ecoli-0-6-7_vs_3-5	0.9247	0.9435	0.9235	0.9382	0.9429
KEEL ecoli-0-6-7_vs_5	0.9676	0.9663	0.9627	0.9723	0.9619
KEEL ecoli-0_vs_1	0.9933	0.9913	0.9935	0.9917	0.9937
KEEL ecoli1	0.9472	0.9447	0.9439	0.9452	0.9514
KEEL ecoli2	0.9658	0.9683	0.9724	0.9692	0.9640
KEEL ecoli3	0.9175	0.9256	0.9201	0.9188	0.9356
KEEL ecoli4	0.9838	0.9798	0.9889	0.9827	0.9924
KEEL glass-0-1-2-3_vs_4-5	0.9792	0.9809	0.9816	0.9783	0.9861
KEEL glass-0-1-4-6_vs_2	0.7752	0.7392	0.7794	0.7702	0.8503
KEEL glass-0-1-5_vs_2	0.7449	0.7295	0.7724	0.7530	0.8294
KEEL glass-0-1-6_vs_2	0.7357	0.7585	0.7663	0.7629	0.8378
KEEL glass-0-1-6_vs_5	0.9885	0.9904	0.9943	0.9846	0.9931
KEEL glass-0-4_vs_5	0.9964	0.9990	1.0000	1.0000	0.9994
KEEL glass-0-6_vs_5	0.9895	0.9952	0.9984	0.9966	0.9996
KEEL glass0	0.8829	0.8941	0.8904	0.8843	0.8930
KEEL glass1	0.8500	0.8696	0.8678	0.8591	0.8660
KEEL glass2	0.7791	0.7520	0.7707	0.7668	0.8637
KEEL glass4	0.9649	0.9721	0.9687	0.9721	0.9746
KEEL glass5	0.9896	0.9928	0.9943	0.9865	0.9921
KEEL glass6	0.9606	0.9715	0.9693	0.9689	0.9680
KEEL haberman	0.6785	0.6802	0.6641	0.6852	0.6810
KEEL iris0	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9642	0.9680	0.9620	0.9641	0.9631
KEEL new-thyroid1	0.9970	0.9980	0.9973	0.9978	0.9991
KEEL new-thyroid2	0.9982	0.9991	0.9990	0.9985	0.9992
KEEL page-blocks-1-3_vs_4	0.9998	0.9997	0.9999	0.9999	0.9999
KEEL pima	0.8027	0.7983	0.8062	0.7990	0.8110
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9963	0.9959	0.9956	0.9963	0.9985
KEEL vehicle1	0.8492	0.8563	0.8488	0.8525	0.8835
KEEL vehicle2	0.9981	0.9980	0.9979	0.9981	0.9990
KEEL vehicle3	0.8471	0.8445	0.8422	0.8443	0.8769
KEEL vowel0	0.9996	0.9993	0.9997	0.9995	0.9999
KEEL wisconsin	0.9932	0.9934	0.9938	0.9929	0.9939
KEEL yeast-0-2-5-6_vs_3-7	0.8421	0.8422	0.8447	0.8429	0.8428
KEEL yeast-0-2-5-7-9_vs_3	0.9466	0.9480	0.9482	0.9473	0.9512
KEEL yeast-0-3-5-9_vs_7-8	0.7592	0.7650	0.7729	0.7601	0.7714
KEEL yeast-0-5-6-7-9_vs_4	0.8846	0.8859	0.8811	0.8808	0.8819
KEEL yeast-1-2-8-9_vs_7	0.7591	0.7631	0.7613	0.7595	0.7560
KEEL yeast-1-4-5-8_vs_7	0.6776	0.6737	0.6728	0.6793	0.6906
KEEL yeast-1_vs_7	0.8004	0.8040	0.8024	0.8006	0.8050
KEEL yeast-2_vs_4	0.9738	0.9742	0.9775	0.9710	0.9792
KEEL yeast-2_vs_8	0.8280	0.8244	0.8263	0.8400	0.8160
KEEL yeast1	0.7768	0.7796	0.7800	0.7760	0.7861
KEEL yeast3	0.9627	0.9655	0.9657	0.9655	0.9695
KEEL yeast4	0.9199	0.9239	0.9159	0.9146	0.9266
KEEL yeast5	0.9809	0.9743	0.9851	0.9833	0.9897
KEEL yeast6	0.9014	0.8944	0.9066	0.9034	0.9102

Table 53: F-measure for RBBo ensembles, HDDT and KEEL datasets.

Dataset	RBBo	O+RBBo	DN+RBBo	RFW+RBBo	RF+RBBo
HDDT PhosS	0.0045	0.0052	0.0045	0.0006	0.0045
HDDT boundary	0.0384	0.0511	0.0358	0.0237	0.0177
HDDT breast-y	0.4102	0.4329	0.3916	0.4165	0.4323
HDDT cam	0.1377	0.1371	0.1363	0.1112	0.0861
HDDT compustat	0.4627	0.4731	0.4607	0.4451	0.4827
HDDT covtype	0.9058	0.9044	0.9053	0.8991	0.9051
HDDT credit-g	0.5148	0.5225	0.5236	0.5197	0.5304
HDDT estate	0.0832	0.0882	0.1205	0.0808	0.1030
HDDT german-numer	0.5268	0.5303	0.5308	0.5110	0.5326
HDDT heart-v	0.4053	0.4073	0.4159	0.4068	0.4009
HDDT hypo	0.8900	0.8926	0.8938	0.8852	0.8775
HDDT ism	0.6765	0.6763	0.6867	0.6801	0.6701
HDDT letter	0.9767	0.9771	0.9771	0.9728	0.9799
HDDT oil	0.5131	0.5529	0.5357	0.5301	0.5361
HDDT optdigits	0.9938	0.9940	0.9942	0.9940	0.9947
HDDT page	0.8727	0.8710	0.8768	0.8735	0.8695
HDDT pendigits	0.9886	0.9903	0.9906	0.9887	0.9925
HDDT phoneme	0.8165	0.8156	0.8168	0.8152	0.8181
HDDT satimage	0.6976	0.6899	0.6966	0.6934	0.6969
HDDT segment	0.9911	0.9924	0.9912	0.9921	0.9924
KEEL abalone19	0.0392	0.0349	0.0391	0.0414	0.0426
KEEL abalone9-18	0.3578	0.3715	0.3742	0.3584	0.4952
KEEL cleveland-0_vs_4	0.5395	0.6015	0.6156	0.5803	0.5019
KEEL ecoli-0-1-3-7_vs_2-6	0.4805	0.5967	0.5624	0.5450	0.5376
KEEL ecoli-0-1-4-6_vs_5	0.7919	0.8060	0.8122	0.8130	0.8082
KEEL ecoli-0-1-4-7_vs_2-3	0.7018	0.7185	0.7240	0.7085	0.7681
KEEL ecoli-0-1-4-7_vs_5-6	0.7650	0.7912	0.7870	0.7361	0.8074
KEEL ecoli-0-1_vs_2-3-5	0.7577	0.7799	0.7826	0.7706	0.7761
KEEL ecoli-0-1_vs_5	0.7957	0.8277	0.8171	0.7936	0.8369
KEEL ecoli-0-2-3-4_vs_5	0.7527	0.8206	0.7963	0.7915	0.8136
KEEL ecoli-0-2-6-7_vs_3-5	0.7329	0.7757	0.7536	0.7427	0.7700
KEEL ecoli-0-3-4-6_vs_5	0.7625	0.8086	0.7856	0.7857	0.8034
KEEL ecoli-0-3-4-7_vs_5-6	0.7904	0.8266	0.8186	0.8160	0.8141
KEEL ecoli-0-3-4_vs_5	0.7529	0.8050	0.7891	0.7595	0.7940
KEEL ecoli-0-4-6_vs_5	0.7584	0.7700	0.7947	0.7442	0.7983
KEEL ecoli-0-6-7_vs_3-5	0.6885	0.7443	0.7221	0.7094	0.7777
KEEL ecoli-0-6-7_vs_5	0.7850	0.7927	0.7918	0.7995	0.7853
KEEL ecoli-0_vs_1	0.9666	0.9678	0.9678	0.9691	0.9698
KEEL ecoli1	0.7600	0.7524	0.7583	0.7560	0.7872
KEEL ecoli2	0.8149	0.8318	0.8371	0.8250	0.8480
KEEL ecoli3	0.5577	0.5741	0.5617	0.5845	0.5343
KEEL ecoli4	0.7753	0.8418	0.8363	0.8008	0.8479

Dataset	RBBo	O+RBBo	DN+RBBo	RFW+RBBo	RF+RBBo
KEEL glass-0-1-2-3_vs_4-5	0.8513	0.8584	0.8582	0.8501	0.8771
KEEL glass-0-1-4-6_vs_2	0.2810	0.2527	0.2412	0.2935	0.3127
KEEL glass-0-1-5_vs_2	0.3056	0.2026	0.2467	0.2552	0.2120
KEEL glass-0-1-6_vs_2	0.1873	0.1959	0.2149	0.1811	0.2755
KEEL glass-0-1-6_vs_5	0.7009	0.7087	0.7295	0.6790	0.6819
KEEL glass-0-4_vs_5	0.9001	0.9251	0.9394	0.9140	0.9052
KEEL glass-0-6_vs_5	0.7988	0.8779	0.9187	0.7988	0.8802
KEEL glass0	0.7037	0.7101	0.7153	0.7244	0.7103
KEEL glass1	0.6895	0.7096	0.7015	0.6974	0.6882
KEEL glass2	0.2621	0.2323	0.2389	0.2199	0.3236
KEEL glass4	0.5275	0.5639	0.5639	0.5783	0.5068
KEEL glass5	0.7346	0.7689	0.8354	0.6618	0.6798
KEEL glass6	0.8513	0.8646	0.8680	0.8591	0.8554
KEEL haberman	0.3285	0.3593	0.3646	0.3354	0.3489
KEEL iris0	0.9813	0.9813	1.0000	0.9855	1.0000
KEEL led7digit-0-2-4-5-6-	0.7694	0.7831	0.7783	0.7602	0.7813
KEEL new-thyroid1	0.9256	0.9392	0.9294	0.9356	0.9622
KEEL new-thyroid2	0.9419	0.9569	0.9508	0.9473	0.9660
KEEL page-blocks-1-3_vs_4	0.9674	0.9581	0.9714	0.9854	0.9788
KEEL pima	0.6137	0.6171	0.6271	0.6138	0.6297
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9114
KEEL vehicle0	0.9382	0.9366	0.9332	0.9406	0.9569
KEEL vehicle1	0.5653	0.5606	0.5495	0.5570	0.5979
KEEL vehicle2	0.9660	0.9679	0.9651	0.9687	0.9744
KEEL vehicle3	0.5365	0.5340	0.5230	0.5256	0.5779
KEEL vowel0	0.9766	0.9673	0.9787	0.9744	0.9849
KEEL wisconsin	0.9513	0.9494	0.9526	0.9557	0.9617
KEEL yeast-0-2-5-6_vs_3-7	0.5903	0.5914	0.6019	0.5811	0.6118
KEEL yeast-0-2-5-7-9_vs_3	0.7959	0.8058	0.8070	0.7939	0.8098
KEEL yeast-0-3-5-9_vs_7-8	0.3670	0.3762	0.3683	0.3560	0.3736
KEEL yeast-0-5-6-7-9_vs_4	0.5055	0.4846	0.4888	0.4881	0.4688
KEEL yeast-1-2-8-9_vs_7	0.2587	0.2689	0.2878	0.2405	0.2875
KEEL yeast-1-4-5-8_vs_7	0.0911	0.1343	0.0859	0.0871	0.1164
KEEL yeast-1_vs_7	0.3434	0.3673	0.4024	0.3635	0.3358
KEEL yeast-2_vs_4	0.7559	0.7738	0.7770	0.7674	0.7885
KEEL yeast-2_vs_8	0.6100	0.5979	0.6033	0.6206	0.5698
KEEL yeast1	0.5260	0.5269	0.5431	0.5224	0.5256
KEEL yeast3	0.7564	0.7611	0.7665	0.7638	0.7701
KEEL yeast4	0.3652	0.3872	0.3893	0.3470	0.4428
KEEL yeast5	0.7029	0.7176	0.7122	0.7058	0.7478
KEEL yeast6	0.4951	0.5157	0.4816	0.4645	0.5408

Table 54: G-mean for RBBo ensembles, HDDT and KEEL datasets.

Dataset	RBBo	O+ RBBo	DN+ RBBo	RFW+ RBBo	RF+ RBBo
HDDT PhosS	0.0300	0.0390	0.0333	0.0057	0.0294
HDDT boundary	0.1121	0.1657	0.1254	0.0868	0.0688
HDDT breast-y	0.5519	0.5710	0.5366	0.5574	0.5683
HDDT cam	0.2941	0.2921	0.2920	0.2570	0.2243
HDDT compustat	0.6049	0.6174	0.5991	0.5823	0.6181
HDDT covtype	0.9447	0.9429	0.9440	0.9387	0.9463
HDDT credit-g	0.6318	0.6361	0.6366	0.6345	0.6395
HDDT estate	0.2160	0.2272	0.2785	0.2140	0.2481
HDDT german-numer	0.6393	0.6427	0.6417	0.6264	0.6436
HDDT heart-v	0.5587	0.5581	0.5625	0.5573	0.5401
HDDT hypo	0.9421	0.9474	0.9436	0.9385	0.9327
HDDT ism	0.8280	0.8321	0.8394	0.8320	0.8406
HDDT letter	0.9777	0.9784	0.9783	0.9737	0.9815
HDDT oil	0.6366	0.6779	0.6492	0.6392	0.6503
HDDT optdigits	0.9946	0.9948	0.9949	0.9940	0.9949
HDDT page	0.9309	0.9290	0.9311	0.9307	0.9303
HDDT pendigits	0.9915	0.9932	0.9932	0.9915	0.9950
HDDT phoneme	0.8686	0.8676	0.8697	0.8687	0.8699
HDDT satimage	0.7959	0.7893	0.7969	0.7918	0.8036
HDDT segment	0.9929	0.9942	0.9937	0.9936	0.9942
KEEL abalone19	0.1451	0.1348	0.1349	0.1350	0.1699
KEEL abalone9-18	0.5568	0.5627	0.5649	0.5475	0.6474
KEEL cleveland-0_vs_4	0.6338	0.6734	0.7135	0.6739	0.6160
KEEL ecoli-0-1-3-7_vs_2-6	0.6383	0.7586	0.7178	0.6891	0.6887
KEEL ecoli-0-1-4-6_vs_5	0.8799	0.8760	0.8768	0.8874	0.8609
KEEL ecoli-0-1-4-7_vs_2-3	0.8172	0.8340	0.8338	0.8287	0.8459
KEEL ecoli-0-1-4-7_vs_5-6	0.8457	0.8656	0.8711	0.8284	0.8637
KEEL ecoli-0-1_vs_2-3-5	0.8590	0.8650	0.8741	0.8688	0.8601
KEEL ecoli-0-1_vs_5	0.8648	0.8773	0.8712	0.8595	0.8783
KEEL ecoli-0-2-3-4_vs_5	0.8747	0.8882	0.8857	0.8892	0.8824
KEEL ecoli-0-2-6-7_vs_3-5	0.8376	0.8619	0.8541	0.8389	0.8390
KEEL ecoli-0-3-4-6_vs_5	0.8803	0.8844	0.8800	0.8988	0.8538
KEEL ecoli-0-3-4-7_vs_5-6	0.8581	0.8860	0.8892	0.8814	0.8737
KEEL ecoli-0-3-4_vs_5	0.8511	0.8772	0.8743	0.8590	0.8555
KEEL ecoli-0-4-6_vs_5	0.8489	0.8506	0.8637	0.8262	0.8615
KEEL ecoli-0-6-7_vs_3-5	0.7900	0.8205	0.8125	0.8068	0.8344
KEEL ecoli-0-6-7_vs_5	0.8776	0.8789	0.8889	0.8843	0.8527
KEEL ecoli-0_vs_1	0.9757	0.9764	0.9764	0.9771	0.9759
KEEL ecoli1	0.8511	0.8448	0.8455	0.8457	0.8673
KEEL ecoli2	0.8714	0.8833	0.8894	0.8733	0.8914
KEEL ecoli3	0.7240	0.7381	0.7266	0.7461	0.7057
KEEL ecoli4	0.8728	0.9104	0.9050	0.8810	0.8959
KEEL glass-0-1-2-3_vs_4-5	0.8958	0.8976	0.9014	0.8944	0.9183
KEEL glass-0-1-4-6_vs_2	0.4092	0.3596	0.3523	0.4448	0.4517
KEEL glass-0-1-5_vs_2	0.4917	0.3513	0.3787	0.4102	0.3612
KEEL glass-0-1-6_vs_2	0.3260	0.3362	0.3505	0.3229	0.4101
KEEL glass-0-1-6_vs_5	0.8077	0.8222	0.8214	0.7742	0.7654
KEEL glass-0-4_vs_5	0.9474	0.9700	0.9834	0.9594	0.9230
KEEL glass-0-6_vs_5	0.8719	0.9297	0.9519	0.8719	0.8911
KEEL glass0	0.7758	0.7823	0.7867	0.7935	0.7803
KEEL glass1	0.7534	0.7667	0.7610	0.7573	0.7490
KEEL glass2	0.4228	0.3670	0.3753	0.3347	0.4749
KEEL glass4	0.6541	0.6928	0.7072	0.6965	0.6109
KEEL glass5	0.8352	0.8713	0.9046	0.7673	0.7715
KEEL glass6	0.9104	0.9156	0.9161	0.9085	0.9017
KEEL haberman	0.4860	0.5156	0.5270	0.4876	0.5002
KEEL iris0	0.9816	0.9816	1.0000	0.9857	1.0000
KEEL led7digit-0-2-4-5-6-	0.8765	0.8889	0.8777	0.8626	0.8731
KEEL new-thyroid1	0.9521	0.9599	0.9578	0.9565	0.9737
KEEL new-thyroid2	0.9606	0.9707	0.9670	0.9640	0.9797
KEEL page-blocks-1-3_vs_4	0.9841	0.9835	0.9878	0.9889	0.9918
KEEL pima	0.6959	0.6994	0.7072	0.6948	0.7083
KEEL shuttle-c0-vs-c4	1.0000	0.9992	1.0000	1.0000	0.9959
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	0.9433
KEEL vehicle0	0.9620	0.9612	0.9570	0.9632	0.9757
KEEL vehicle1	0.6873	0.6843	0.6752	0.6796	0.7106
KEEL vehicle2	0.9767	0.9786	0.9764	0.9783	0.9835
KEEL vehicle3	0.6591	0.6585	0.6485	0.6500	0.6925
KEEL vowel0	0.9855	0.9814	0.9877	0.9853	0.9964
KEEL wisconsin	0.9634	0.9613	0.9647	0.9677	0.9732
KEEL yeast-0-2-5-6_vs_3-7	0.7211	0.7223	0.7294	0.7165	0.7275
KEEL yeast-0-2-5-7-9_vs_3	0.8789	0.8848	0.8841	0.8757	0.8795
KEEL yeast-0-3-5-9_vs_7-8	0.5311	0.5360	0.5328	0.5241	0.5201
KEEL yeast-0-5-6-7-9_vs_4	0.6607	0.6443	0.6450	0.6420	0.6212
KEEL yeast-1-2-8-9_vs_7	0.4404	0.4474	0.4686	0.4115	0.4478
KEEL yeast-1-4-5-8_vs_7	0.2087	0.2707	0.2106	0.1575	0.2327
KEEL yeast-1_vs_7	0.5343	0.5527	0.5827	0.5407	0.5194
KEEL yeast-2_vs_4	0.8610	0.8650	0.8731	0.8627	0.8732
KEEL yeast-2_vs_8	0.7249	0.7177	0.7242	0.7253	0.6588
KEEL yeast1	0.6409	0.6434	0.6568	0.6377	0.6363
KEEL yeast3	0.8538	0.8562	0.8623	0.8584	0.8593
KEEL yeast4	0.5693	0.5848	0.5836	0.5351	0.6237
KEEL yeast5	0.8468	0.8638	0.8558	0.8485	0.8841
KEEL yeast6	0.6815	0.6986	0.6763	0.6484	0.7086

Table 55: AUC for Ba-RB ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6804	0.7168	0.7305	0.7399	0.7455	0.7489	0.7518	0.7532	0.7551	0.7560
HDDT boundary	0.6655	0.6800	0.6821	0.6885	0.6934	0.6939	0.6954	0.6970	0.6982	0.6996
HDDT breast-y	0.6439	0.6620	0.6676	0.6640	0.6576	0.6610	0.6601	0.6618	0.6622	0.6621
HDDT cam	0.7318	0.7533	0.7603	0.7668	0.7690	0.7699	0.7706	0.7706	0.7714	0.7715
HDDT compustat	0.8892	0.8981	0.9021	0.9050	0.9070	0.9073	0.9081	0.9080	0.9083	0.9090
HDDT covtype	0.9913	0.9924	0.9927	0.9929	0.9930	0.9931	0.9931	0.9932	0.9932	0.9933
HDDT credit-g	0.7462	0.7631	0.7677	0.7697	0.7710	0.7736	0.7735	0.7738	0.7734	0.7729
HDDT estate	0.6109	0.6177	0.6205	0.6229	0.6224	0.6252	0.6251	0.6248	0.6256	0.6256
HDDT german-numer	0.7548	0.7742	0.7801	0.7805	0.7817	0.7828	0.7835	0.7836	0.7849	0.7859
HDDT heart-v	0.6974	0.7052	0.7073	0.7142	0.7131	0.7133	0.7112	0.7117	0.7117	0.7122
HDDT hypo	0.9898	0.9902	0.9901	0.9904	0.9906	0.9905	0.9904	0.9906	0.9903	0.9903
HDDT ism	0.9348	0.9417	0.9422	0.9428	0.9437	0.9437	0.9429	0.9426	0.9419	0.9417
HDDT letter	0.9989	0.9992	0.9993	0.9993	0.9994	0.9995	0.9995	0.9995	0.9995	0.9996
HDDT oil	0.8910	0.8976	0.8998	0.9059	0.9099	0.9121	0.9145	0.9150	0.9139	0.9145
HDDT optdigits	0.9967	0.9969	0.9971	0.9974	0.9974	0.9975	0.9975	0.9977	0.9980	0.9981
HDDT page	0.9901	0.9913	0.9915	0.9916	0.9918	0.9918	0.9919	0.9921	0.9921	0.9921
HDDT pendigits	0.9993	0.9994	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996
HDDT phoneme	0.9324	0.9354	0.9367	0.9377	0.9380	0.9380	0.9383	0.9384	0.9386	0.9388
HDDT satimage	0.9419	0.9470	0.9485	0.9491	0.9497	0.9500	0.9504	0.9507	0.9509	0.9509
HDDT segment	0.9966	0.9981	0.9980	0.9985	0.9986	0.9986	0.9990	0.9991	0.9991	0.9990
KEEL abalone19	0.7556	0.7704	0.7715	0.7710	0.7739	0.7715	0.7741	0.7781	0.7800	0.7823
KEEL abalone9-18	0.8126	0.8141	0.8127	0.8127	0.8145	0.8177	0.8194	0.8181	0.8182	0.8178
KEEL cleveland-0_vs_4	0.9065	0.9336	0.9408	0.9498	0.9532	0.9584	0.9566	0.9575	0.9566	0.9565
KEEL ecoli-0-1-3-7_vs_2-6	0.8670	0.9070	0.9274	0.9290	0.9337	0.9313	0.9329	0.9335	0.9350	0.9341
KEEL ecoli-0-1-4-6_vs_5	0.9530	0.9633	0.9681	0.9689	0.9699	0.9712	0.9706	0.9728	0.9735	0.9738
KEEL ecoli-0-1-4-7_vs_2-3	0.9244	0.9246	0.9279	0.9326	0.9326	0.9339	0.9358	0.9374	0.9386	0.9381
KEEL ecoli-0-1-4-7_vs_5-6	0.9462	0.9501	0.9562	0.9578	0.9589	0.9587	0.9586	0.9587	0.9593	0.9597
KEEL ecoli-0-1_vs-2-3-5	0.9440	0.9463	0.9514	0.9534	0.9535	0.9535	0.9525	0.9539	0.9537	0.9526
KEEL ecoli-0-1_vs_5	0.9584	0.9592	0.9643	0.9690	0.9700	0.9693	0.9703	0.9705	0.9704	0.9708
KEEL ecoli-0-2-3-4_vs_5	0.9606	0.9676	0.9688	0.9707	0.9741	0.9756	0.9762	0.9779	0.9787	0.9784
KEEL ecoli-0-2-6-7_vs_3-5	0.9266	0.9292	0.9334	0.9348	0.9342	0.9290	0.9281	0.9275	0.9292	0.9285
KEEL ecoli-0-3-4-6_vs_5	0.9553	0.9579	0.9644	0.9664	0.9682	0.9714	0.9716	0.9712	0.9714	0.9723
KEEL ecoli-0-3-4-7_vs_5-6	0.9331	0.9391	0.9464	0.9477	0.9512	0.9519	0.9515	0.9508	0.9516	0.9512
KEEL ecoli-0-3-4_vs_5	0.9368	0.9593	0.9607	0.9586	0.9624	0.9638	0.9663	0.9667	0.9679	0.9692
KEEL ecoli-0-4-6_vs_5	0.9680	0.9705	0.9717	0.9727	0.9747	0.9745	0.9746	0.9747	0.9763	0.9761
KEEL ecoli-0-6-7_vs_3-5	0.9040	0.9175	0.9205	0.9230	0.9245	0.9282	0.9293	0.9283	0.9275	0.9292
KEEL ecoli-0-6-7_vs_5	0.9481	0.9571	0.9590	0.9596	0.9634	0.9634	0.9634	0.9639	0.9636	0.9647
KEEL ecoli-0_vs_1	0.9848	0.9871	0.9892	0.9892	0.9914	0.9915	0.9909	0.9925	0.9925	0.9930
KEEL ecoli1	0.9499	0.9528	0.9553	0.9560	0.9563	0.9557	0.9567	0.9568	0.9565	0.9577
KEEL ecoli2	0.9371	0.9390	0.9452	0.9452	0.9450	0.9446	0.9448	0.9453	0.9457	0.9475
KEEL ecoli3	0.9388	0.9388	0.9374	0.9384	0.9380	0.9379	0.9371	0.9383	0.9386	0.9379
KEEL ecoli4	0.9374	0.9531	0.9574	0.9566	0.9590	0.9692	0.9694	0.9728	0.9731	0.9739
KEEL glass-0-1-2-3_vs_4-5	0.9645	0.9683	0.9722	0.9731	0.9724	0.9726	0.9730	0.9724	0.9726	0.9725
KEEL glass-0-1-4-6_vs_2	0.7027	0.7388	0.7484	0.7557	0.7564	0.7570	0.7553	0.7538	0.7489	0.7509
KEEL glass-0-1-5_vs_2	0.6755	0.6917	0.7094	0.6996	0.6979	0.7029	0.7091	0.7120	0.7131	0.7161
KEEL glass-0-1-6_vs_2	0.6729	0.6895	0.6983	0.7049	0.7102	0.7146	0.7143	0.7137	0.7183	0.7151
KEEL glass-0-1-6_vs_5	0.9924	0.9937	0.9938	0.9945	0.9930	0.9924	0.9924	0.9933	0.9928	0.9925
KEEL glass-0-4_vs_5	0.9940	0.9940	0.9947	0.9953	0.9956	0.9956	0.9956	0.9975	0.9975	0.9982
KEEL glass-0-6_vs_5	0.9876	0.9927	0.9942	0.9931	0.9942	0.9930	0.9930	0.9935	0.9934	0.9925
KEEL glass0	0.8535	0.8644	0.8668	0.8698	0.8681	0.8664	0.8671	0.8661	0.8672	0.8671
KEEL glass1	0.8002	0.8107	0.8132	0.8166	0.8192	0.8260	0.8245	0.8253	0.8230	0.8225
KEEL glass2	0.7160	0.7257	0.7351	0.7526	0.7624	0.7675	0.7720	0.7705	0.7708	0.7705
KEEL glass4	0.9053	0.9184	0.9323	0.9305	0.9317	0.9346	0.9288	0.9261	0.9244	0.9253
KEEL glass5	0.9862	0.9897	0.9909	0.9902	0.9897	0.9902	0.9890	0.9882	0.9893	0.9889
KEEL glass6	0.9459	0.9524	0.9528	0.9532	0.9541	0.9541	0.9533	0.9536	0.9530	0.9528
KEEL haberman	0.6943	0.7022	0.7066	0.7106	0.7137	0.7140	0.7127	0.7125	0.7128	0.7130
KEEL iris0	0.9898	0.9998	0.9998	0.9998	0.9998	0.9998	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9551	0.9572	0.9584	0.9585	0.9600	0.9608	0.9618	0.9619	0.9626	0.9630
KEEL new-thyroid1	0.9920	0.9941	0.9944	0.9942	0.9942	0.9946	0.9943	0.9943	0.9942	0.9941
KEEL new-thyroid2	0.9933	0.9937	0.9940	0.9941	0.9943	0.9946	0.9953	0.9955	0.9950	0.9951
KEEL page-blocks-1-3_vs_4	0.9978	0.9998	0.9995	0.9996	0.9995	0.9995	0.9995	0.9995	0.9995	0.9995
KEEL pima	0.8113	0.8153	0.8163	0.8188	0.8194	0.8196	0.8204	0.8213	0.8221	0.8225
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9870	0.9884	0.9889	0.9893	0.9895	0.9894	0.9898	0.9898	0.9898	0.9900
KEEL vehicle1	0.8259	0.8373	0.8417	0.8422	0.8451	0.8470	0.8480	0.8483	0.8495	0.8489
KEEL vehicle2	0.9927	0.9928	0.9937	0.9939	0.9940	0.9943	0.9943	0.9942	0.9942	0.9943
KEEL vehicle3	0.8282	0.8376	0.8431	0.8455	0.8467	0.8463	0.8454	0.8450	0.8456	0.8457
KEEL vowel0	0.9946	0.9957	0.9961	0.9963	0.9963	0.9963	0.9963	0.9965	0.9964	0.9963
KEEL wisconsin	0.9903	0.9909	0.9910	0.9913	0.9916	0.9917	0.9918	0.9918	0.9918	0.9919
KEEL yeast-0-2-5-6_vs_3-7	0.8401	0.8481	0.8519	0.8482	0.8473	0.8484	0.8491	0.8495	0.8490	0.8499
KEEL yeast-0-2-5-7-9_vs_3	0.9397	0.9412	0.9428	0.9420	0.9432	0.9438	0.9448	0.9445	0.9447	0.9445
KEEL yeast-0-3-5-9_vs_7-8	0.7246	0.7506	0.7549	0.7578	0.7602	0.7639	0.7624	0.7653	0.7650	0.7634
KEEL yeast-0-5-6-7-9_vs_4	0.8744	0.8844	0.8911	0.8933	0.8930	0.8933	0.8954	0.8949	0.8952	0.8950
KEEL yeast-1-2-8-9_vs_7	0.7184	0.7308	0.7484	0.7491	0.7508	0.7542	0.7522	0.7547	0.7592	0.7615
KEEL yeast-1-4-5-8_vs_7	0.6512	0.6500	0.6572	0.6589	0.6550	0.6564	0.6569	0.6569	0.6592	0.6592
KEEL yeast-1_vs_7	0.8000	0.8127	0.8151	0.8210	0.8207	0.8211	0.8206	0.8178	0.8199	0.8217
KEEL yeast-2_vs_4	0.9718	0.9720	0.9723	0.9797	0.9796	0.9811	0.9811	0.9816	0.9817	0.9815
KEEL yeast-2_vs_8	0.8161	0.8253	0.8201	0.8259	0.8259	0.8336	0.8323	0.8286	0.8279	0.8259
KEEL yeast1	0.7775	0.7889	0.7938	0.7968	0.7975	0.7982	0.7990	0.7991	0.7992	0.7991
KEEL yeast3	0.9697	0.9710	0.9733	0.9742	0.9741	0.9741	0.9743	0.9741	0.9742	0.9743
KEEL yeast4	0.9268	0.9308	0.9347	0.9343	0.9355	0.9357	0.9350	0.9363	0.9370	0.9377
KEEL yeast5	0.9901	0.9908	0.9900	0.9903	0.9904	0.9904	0.9906	0.9906	0.9905	0.9905
KEEL yeast6	0.9201	0.9218	0.9225	0.9229	0.9213	0.9211	0.9218	0.9214	0.9217	0.9251

Table 56: AUC for RAMOBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6954	0.7078	0.7135	0.7178	0.7200	0.7227	0.7243	0.7256	0.7261	0.7286
HDDT boundary	0.6468	0.6614	0.6661	0.6758	0.6770	0.6761	0.6771	0.6771	0.6788	0.6801
HDDT breast-y	0.6235	0.6190	0.6149	0.6138	0.6120	0.6110	0.6106	0.6090	0.6085	0.6074
HDDT cam	0.7409	0.7581	0.7631	0.7655	0.7665	0.7676	0.7684	0.7691	0.7691	0.7697
HDDT compustat	0.9068	0.9200	0.9249	0.9276	0.9297	0.9316	0.9332	0.9341	0.9343	0.9348
HDDT covtype	0.9944	0.9953	0.9956	0.9958	0.9959	0.9960	0.9961	0.9962	0.9962	0.9962
HDDT credit-g	0.7187	0.7265	0.7288	0.7276	0.7269	0.7260	0.7258	0.7265	0.7259	0.7258
HDDT estate	0.6064	0.6091	0.6087	0.6086	0.6087	0.6086	0.6080	0.6085	0.6083	0.6071
HDDT german-numer	0.7490	0.7561	0.7559	0.7561	0.7567	0.7565	0.7565	0.7570	0.7577	0.7581
HDDT heart-v	0.6498	0.6525	0.6520	0.6505	0.6493	0.6502	0.6507	0.6488	0.6501	0.6487
HDDT hypo	0.9894	0.9906	0.9912	0.9918	0.9918	0.9914	0.9912	0.9913	0.9914	0.9914
HDDT ism	0.9022	0.9029	0.9028	0.9032	0.9033	0.9029	0.9028	0.9032	0.9028	0.9029
HDDT letter	0.9997	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
HDDT oil	0.8905	0.8997	0.8979	0.9076	0.9077	0.9106	0.9139	0.9139	0.9136	0.9136
HDDT optdigits	0.9983	0.9995	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
HDDT page	0.9904	0.9909	0.9910	0.9911	0.9912	0.9912	0.9913	0.9913	0.9913	0.9914
HDDT pendigits	0.9997	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
HDDT phoneme	0.9428	0.9486	0.9495	0.9502	0.9505	0.9507	0.9508	0.9509	0.9512	0.9513
HDDT satimage	0.9498	0.9550	0.9570	0.9581	0.9589	0.9594	0.9597	0.9598	0.9603	0.9605
HDDT segment	0.9982	0.9988	0.9995	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999
KEEL abalone19	0.7468	0.7482	0.7461	0.7257	0.7189	0.7135	0.7012	0.7016	0.7031	0.7044
KEEL abalone9-18	0.7918	0.8039	0.8113	0.8122	0.8147	0.8177	0.8201	0.8225	0.8218	0.8192
KEEL cleveland-0_vs_4	0.9315	0.9383	0.9384	0.9406	0.9397	0.9360	0.9366	0.9356	0.9324	0.9288
KEEL ecoli-0-1-3-7_vs_2-6	0.8845	0.9050	0.9036	0.9059	0.9050	0.9039	0.9048	0.9096	0.9081	0.9145
KEEL ecoli-0-1-4-6_vs_5	0.9774	0.9840	0.9843	0.9843	0.9858	0.9865	0.9861	0.9862	0.9870	0.9872
KEEL ecoli-0-1-4-7_vs_2-3	0.9199	0.9258	0.9245	0.9227	0.9242	0.9262	0.9298	0.9308	0.9309	0.9321
KEEL ecoli-0-1-4-7_vs_5-6	0.9548	0.9657	0.9682	0.9681	0.9669	0.9665	0.9656	0.9651	0.9660	0.9678
KEEL ecoli-0-1_vs-2-3-5	0.9563	0.9531	0.9503	0.9485	0.9473	0.9397	0.9402	0.9413	0.9406	0.9412
KEEL ecoli-0-1_vs_5	0.9690	0.9742	0.9727	0.9758	0.9760	0.9765	0.9755	0.9747	0.9767	0.9769
KEEL ecoli-0-2-3-4_vs_5	0.9547	0.9704	0.9741	0.9741	0.9740	0.9745	0.9755	0.9752	0.9764	0.9756
KEEL ecoli-0-2-6-7_vs_3-5	0.9160	0.9241	0.9287	0.9281	0.9297	0.9315	0.9321	0.9337	0.9344	0.9344
KEEL ecoli-0-3-4-6_vs_5	0.9524	0.9603	0.9736	0.9729	0.9703	0.9749	0.9768	0.9769	0.9773	0.9778
KEEL ecoli-0-3-4-7_vs_5-6	0.9539	0.9601	0.9586	0.9578	0.9594	0.9584	0.9569	0.9556	0.9583	0.9569
KEEL ecoli-0-3-4_vs_5	0.9469	0.9654	0.9733	0.9769	0.9768	0.9788	0.9788	0.9784	0.9779	0.9769
KEEL ecoli-0-4-6_vs_5	0.9710	0.9768	0.9790	0.9794	0.9792	0.9793	0.9799	0.9793	0.9797	0.9794
KEEL ecoli-0-6-7_vs_3-5	0.9040	0.9175	0.9222	0.9178	0.9162	0.9144	0.9147	0.9113	0.9155	0.9143
KEEL ecoli-0-6-7_vs_5	0.9462	0.9559	0.9620	0.9617	0.9638	0.9640	0.9644	0.9654	0.9665	0.9651
KEEL ecoli-0_vs_1	0.9866	0.9865	0.9866	0.9870	0.9872	0.9874	0.9879	0.9883	0.9882	0.9883
KEEL ecoli1	0.9374	0.9425	0.9418	0.9426	0.9415	0.9424	0.9408	0.9428	0.9421	0.9414
KEEL ecoli2	0.9483	0.9554	0.9566	0.9554	0.9582	0.9587	0.9594	0.9588	0.9593	0.9588
KEEL ecoli3	0.9222	0.9202	0.9201	0.9184	0.9186	0.9185	0.9190	0.9199	0.9196	0.9199
KEEL ecoli4	0.9654	0.9784	0.9782	0.9783	0.9793	0.9776	0.9788	0.9784	0.9788	0.9792
KEEL glass-0-1-2-3_vs_4-5	0.9613	0.9692	0.9723	0.9716	0.9738	0.9733	0.9730	0.9732	0.9728	0.9733
KEEL glass-0-1-4-6_vs_2	0.7685	0.7618	0.7613	0.7526	0.7514	0.7470	0.7379	0.7374	0.7415	0.7389
KEEL glass-0-1-5_vs_2	0.7251	0.7299	0.7382	0.7355	0.7379	0.7488	0.7436	0.7424	0.7419	0.7391
KEEL glass-0-1-6_vs_2	0.7307	0.7381	0.7412	0.7545	0.7540	0.7554	0.7545	0.7509	0.7493	0.7487
KEEL glass-0-1-6_vs_5	0.9944	0.9876	0.9862	0.9858	0.9861	0.9857	0.9867	0.9870	0.9864	0.9859
KEEL glass-0-4_vs_5	0.9929	0.9929	0.9934	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940
KEEL glass-0-6_vs_5	0.9918	0.9932	0.9923	0.9909	0.9887	0.9884	0.9882	0.9883	0.9883	0.9869
KEEL glass0	0.8576	0.8571	0.8645	0.8641	0.8672	0.8682	0.8688	0.8716	0.8695	0.8696
KEEL glass1	0.8209	0.8371	0.8422	0.8459	0.8450	0.8462	0.8490	0.8472	0.8471	0.8475
KEEL glass2	0.7926	0.7836	0.7825	0.7751	0.7774	0.7783	0.7754	0.7844	0.7790	0.7823
KEEL glass4	0.9316	0.9330	0.9433	0.9446	0.9445	0.9432	0.9432	0.9451	0.9436	0.9437
KEEL glass5	0.9800	0.9798	0.9777	0.9771	0.9774	0.9771	0.9773	0.9766	0.9763	0.9763
KEEL glass6	0.9435	0.9507	0.9486	0.9535	0.9525	0.9556	0.9535	0.9528	0.9538	0.9534
KEEL haberman	0.6815	0.6878	0.6841	0.6860	0.6867	0.6849	0.6856	0.6833	0.6820	0.6817
KEEL iris0	0.9860	0.9860	0.9860	0.9860	0.9860	0.9860	0.9860	0.9860	0.9860	0.9860
KEEL led7digit-0-2-4-5-6-	0.9720	0.9720	0.9694	0.9694	0.9694	0.9694	0.9691	0.9691	0.9691	0.9691
KEEL new-thyroid1	0.9958	0.9968	0.9965	0.9960	0.9965	0.9968	0.9969	0.9971	0.9970	0.9969
KEEL new-thyroid2	0.9969	0.9973	0.9978	0.9978	0.9975	0.9977	0.9976	0.9975	0.9974	0.9974
KEEL page-blocks-1-3_vs_4	0.9985	0.9991	0.9990	0.9989	0.9987	0.9986	0.9983	0.9983	0.9984	0.9983
KEEL pima	0.7993	0.8000	0.8006	0.8010	0.8020	0.8023	0.8021	0.8026	0.8033	0.8023
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9895	0.9916	0.9922	0.9924	0.9928	0.9931	0.9932	0.9933	0.9932	0.9932
KEEL vehicle1	0.8320	0.8416	0.8445	0.8463	0.8483	0.8490	0.8497	0.8515	0.8522	0.8524
KEEL vehicle2	0.9944	0.9954	0.9963	0.9965	0.9966	0.9966	0.9967	0.9968	0.9967	0.9967
KEEL vehicle3	0.8320	0.8384	0.8426	0.8436	0.8454	0.8461	0.8467	0.8469	0.8472	0.8472
KEEL vowel0	0.9982	0.9988	0.9989	0.9989	0.9990	0.9990	0.9991	0.9991	0.9991	0.9991
KEEL wisconsin	0.9911	0.9932	0.9932	0.9931	0.9931	0.9932	0.9930	0.9931	0.9931	0.9931
KEEL yeast-0-2-5-6_vs_3-7	0.8392	0.8408	0.8451	0.8477	0.8455	0.8451	0.8462	0.8463	0.8448	0.8439
KEEL yeast-0-2-5-7-9_vs_3	0.9397	0.9427	0.9418	0.9426	0.9431	0.9433	0.9433	0.9420	0.9432	0.9430
KEEL yeast-0-3-5-9_vs_7-8	0.7473	0.7463	0.7449	0.7482	0.7512	0.7533	0.7556	0.7592	0.7597	0.7610
KEEL yeast-0-5-6-7-9_vs_4	0.8810	0.8850	0.8847	0.8894	0.8876	0.8856	0.8855	0.8851	0.8867	0.8857
KEEL yeast-1-2-8-9_vs_7	0.7333	0.7402	0.7463	0.7513	0.7503	0.7493	0.7548	0.7579	0.7560	0.7578
KEEL yeast-1-4-5-8_vs_7	0.6624	0.6660	0.6783	0.6834	0.6825	0.6800	0.6785	0.6820	0.6847	0.6818
KEEL yeast-1_vs_7	0.7820	0.8069	0.8075	0.8083	0.8062	0.8064	0.8046	0.8033	0.8051	0.8048
KEEL yeast-2_vs_4	0.9711	0.9737	0.9721	0.9749	0.9747	0.9745	0.9744	0.9739	0.9734	0.9732
KEEL yeast-2_vs_8	0.7979	0.8121	0.8229	0.8289	0.8310	0.8274	0.8240	0.8205	0.8191	0.8161
KEEL yeast1	0.7782	0.7786	0.7792	0.7792	0.7788	0.7796	0.7792	0.7799	0.7797	0.7796
KEEL yeast3	0.9680	0.9674	0.9673	0.9669	0.9662	0.9658	0.9660	0.9669	0.9666	0.9664
KEEL yeast4	0.9124	0.9151	0.9136	0.9118	0.9134	0.9135	0.9147	0.9149	0.9141	0.9146
KEEL yeast5	0.9801	0.9828	0.9857	0.9839	0.9856	0.9867	0.9867	0.9855	0.9850	0.9846
KEEL yeast6	0.8899	0.8947	0.8951	0.8973	0.8979	0.8989	0.8978	0.9031	0.9015	0.9002

Table 57: AUC for RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.7303	0.7445	0.7496	0.7532	0.7568	0.7598	0.7617	0.7612	0.7633	0.7649
HDDT boundary	0.6737	0.6808	0.6857	0.6876	0.6818	0.6890	0.6926	0.6907	0.6921	0.6873
HDDT breast-y	0.6485	0.6518	0.6491	0.6468	0.6443	0.6424	0.6385	0.6384	0.6378	0.6361
HDDT cam	0.7667	0.7837	0.7915	0.7959	0.7998	0.8016	0.8035	0.8051	0.8058	0.8060
HDDT compustat	0.8679	0.8752	0.8800	0.8827	0.8853	0.8855	0.8880	0.8888	0.8902	0.8912
HDDT covtype	0.9902	0.9915	0.9919	0.9922	0.9922	0.9926	0.9926	0.9927	0.9927	0.9930
HDDT credit-g	0.7458	0.7515	0.7479	0.7490	0.7472	0.7470	0.7467	0.7435	0.7419	0.7422
HDDT estate	0.6282	0.6342	0.6369	0.6384	0.6384	0.6383	0.6391	0.6393	0.6395	0.6395
HDDT german-numer	0.7530	0.7555	0.7574	0.7544	0.7543	0.7548	0.7537	0.7523	0.7530	0.7522
HDDT heart-v	0.6546	0.6592	0.6678	0.6738	0.6744	0.6728	0.6708	0.6693	0.6676	0.6690
HDDT hypo	0.9889	0.9895	0.9895	0.9900	0.9899	0.9900	0.9908	0.9899	0.9892	0.9898
HDDT ism	0.9372	0.9393	0.9396	0.9397	0.9392	0.9397	0.9393	0.9393	0.9384	0.9404
HDDT letter	0.9989	0.9993	0.9994	0.9995	0.9996	0.9996	0.9997	0.9997	0.9997	0.9998
HDDT oil	0.8903	0.9027	0.9035	0.9073	0.9083	0.9022	0.9068	0.9089	0.9116	0.9079
HDDT optdigits	0.9994	0.9996	0.9997	0.9998	0.9997	0.9998	0.9998	0.9999	0.9999	0.9999
HDDT page	0.9887	0.9900	0.9903	0.9903	0.9906	0.9904	0.9908	0.9907	0.9906	0.9909
HDDT pendigits	0.9994	0.9997	0.9997	0.9998	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999
HDDT phoneme	0.9297	0.9346	0.9370	0.9395	0.9407	0.9419	0.9427	0.9437	0.9443	0.9447
HDDT satimage	0.9387	0.9440	0.9459	0.9476	0.9492	0.9504	0.9508	0.9523	0.9527	0.9524
HDDT segment	0.9994	0.9995	0.9997	0.9996	0.9997	0.9997	0.9998	0.9997	0.9997	0.9998
KEEL abalone19	0.7668	0.7830	0.7729	0.7838	0.7659	0.7779	0.7722	0.7844	0.7763	0.7686
KEEL abalone9-18	0.7670	0.7742	0.7788	0.7783	0.7742	0.7834	0.7769	0.7870	0.7931	0.7815
KEEL cleveland-0_vs_4	0.9160	0.9251	0.9344	0.9350	0.9339	0.9365	0.9377	0.9366	0.9449	0.9420
KEEL ecoli-0-1-3-7_vs_2-6	0.8981	0.9247	0.9367	0.9159	0.9119	0.9170	0.9390	0.9174	0.9197	0.9202
KEEL ecoli-0-1-4-6_vs_5	0.9680	0.9805	0.9835	0.9845	0.9824	0.9819	0.9824	0.9803	0.9802	0.9784
KEEL ecoli-0-1-4-7_vs_2-3	0.9172	0.9224	0.9211	0.9215	0.9254	0.9246	0.9270	0.9239	0.9234	0.9223
KEEL ecoli-0-1-4-7_vs_5-6	0.9493	0.9609	0.9626	0.9625	0.9628	0.9632	0.9638	0.9649	0.9677	0.9647
KEEL ecoli-0-1_vs-2-3-5	0.9365	0.9387	0.9401	0.9408	0.9387	0.9335	0.9397	0.9345	0.9389	0.9364
KEEL ecoli-0-1_vs_5	0.9671	0.9751	0.9802	0.9828	0.9812	0.9814	0.9838	0.9818	0.9831	0.9798
KEEL ecoli-0-2-3-4_vs_5	0.9736	0.9812	0.9804	0.9815	0.9814	0.9822	0.9831	0.9823	0.9835	0.9822
KEEL ecoli-0-2-6-7_vs_3-5	0.9216	0.9167	0.9171	0.9113	0.9125	0.9057	0.9138	0.9102	0.9113	0.9102
KEEL ecoli-0-3-4-6_vs_5	0.9685	0.9700	0.9697	0.9712	0.9734	0.9668	0.9608	0.9694	0.9676	0.9650
KEEL ecoli-0-3-4-7_vs_5-6	0.9435	0.9503	0.9577	0.9604	0.9589	0.9601	0.9569	0.9584	0.9601	0.9598
KEEL ecoli-0-3-4_vs_5	0.9633	0.9718	0.9706	0.9789	0.9782	0.9784	0.9784	0.9787	0.9807	0.9788
KEEL ecoli-0-4-6_vs_5	0.9716	0.9745	0.9787	0.9746	0.9797	0.9794	0.9729	0.9810	0.9802	0.9741
KEEL ecoli-0-6-7_vs_3-5	0.9052	0.9078	0.9023	0.9080	0.9065	0.9066	0.9043	0.8982	0.8955	0.8904
KEEL ecoli-0-6-7_vs_5	0.9452	0.9493	0.9532	0.9549	0.9555	0.9585	0.9564	0.9543	0.9526	0.9598
KEEL ecoli-0_vs_1	0.9873	0.9896	0.9900	0.9904	0.9903	0.9909	0.9906	0.9908	0.9894	0.9902
KEEL ecoli1	0.9529	0.9534	0.9524	0.9537	0.9523	0.9544	0.9499	0.9534	0.9530	0.9503
KEEL ecoli2	0.9543	0.9523	0.9592	0.9581	0.9616	0.9628	0.9602	0.9628	0.9642	0.9650
KEEL ecoli3	0.9315	0.9244	0.9329	0.9273	0.9275	0.9252	0.9243	0.9218	0.9223	0.9239
KEEL ecoli4	0.9687	0.9796	0.9833	0.9843	0.9842	0.9863	0.9848	0.9872	0.9875	0.9869
KEEL glass-0-1-2-3_vs_4-5	0.9689	0.9707	0.9742	0.9692	0.9723	0.9693	0.9742	0.9682	0.9704	0.9697
KEEL glass-0-1-4-6_vs_2	0.6834	0.6955	0.7272	0.7123	0.7154	0.6982	0.7235	0.7242	0.7298	0.7410
KEEL glass-0-1-5_vs_2	0.6592	0.6997	0.7068	0.6933	0.7097	0.7284	0.7271	0.7230	0.7327	0.7339
KEEL glass-0-1-6_vs_2	0.6031	0.6391	0.6648	0.6828	0.6609	0.6760	0.6864	0.6913	0.7039	0.6851
KEEL glass-0-1-6_vs_5	0.9808	0.9914	0.9968	0.9963	0.9954	0.9973	0.9952	0.9953	0.9979	0.9965
KEEL glass-0-4_vs_5	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9925	0.9930
KEEL glass-0-6_vs_5	0.9842	0.9859	0.9886	0.9923	0.9942	0.9945	0.9936	0.9936	0.9945	0.9950
KEEL glass0	0.8655	0.8738	0.8743	0.8855	0.8862	0.8846	0.8879	0.8874	0.8816	0.8889
KEEL glass1	0.7954	0.8253	0.8350	0.8381	0.8440	0.8485	0.8516	0.8537	0.8484	0.8540
KEEL glass2	0.7088	0.7097	0.7174	0.7321	0.7452	0.7508	0.7342	0.7547	0.7540	0.7534
KEEL glass4	0.8871	0.8983	0.9062	0.9059	0.9142	0.9152	0.9196	0.9080	0.9105	0.9248
KEEL glass5	0.9809	0.9894	0.9929	0.9920	0.9937	0.9948	0.9925	0.9936	0.9938	0.9938
KEEL glass6	0.9427	0.9470	0.9473	0.9494	0.9523	0.9502	0.9528	0.9531	0.9542	0.9531
KEEL haberman	0.6957	0.6974	0.7021	0.7016	0.7007	0.7027	0.7032	0.7043	0.7043	0.7028
KEEL iris0	0.9820	0.9820	0.9820	0.9820	0.9820	0.9820	0.9820	0.9820	0.9820	0.9820
KEEL led7digit-0-2-4-5-6-	0.9516	0.9544	0.9520	0.9552	0.9545	0.9545	0.9570	0.9578	0.9586	0.9590
KEEL new-thyroid1	0.9955	0.9963	0.9974	0.9964	0.9971	0.9970	0.9971	0.9970	0.9971	0.9965
KEEL new-thyroid2	0.9963	0.9971	0.9971	0.9974	0.9976	0.9971	0.9973	0.9976	0.9975	0.9973
KEEL page-blocks-1-3_vs_4	0.9988	0.9994	0.9998	0.9993	0.9995	0.9993	0.9999	0.9998	0.9995	0.9997
KEEL pima	0.8041	0.8073	0.8078	0.8063	0.8082	0.8064	0.8067	0.8047	0.8052	0.8024
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9885	0.9906	0.9919	0.9936	0.9941	0.9948	0.9952	0.9952	0.9954	0.9949
KEEL vehicle1	0.8322	0.8411	0.8452	0.8485	0.8478	0.8477	0.8480	0.8481	0.8507	0.8486
KEEL vehicle2	0.9945	0.9965	0.9970	0.9976	0.9971	0.9974	0.9978	0.9979	0.9978	0.9979
KEEL vehicle3	0.8236	0.8335	0.8413	0.8430	0.8442	0.8450	0.8469	0.8469	0.8490	0.8463
KEEL vowel0	0.9951	0.9963	0.9980	0.9987	0.9984	0.9987	0.9987	0.9988	0.9987	0.9987
KEEL wisconsin	0.9916	0.9918	0.9924	0.9923	0.9923	0.9922	0.9920	0.9920	0.9920	0.9921
KEEL yeast-0-2-5-6_vs_3-7	0.8484	0.8473	0.8486	0.8501	0.8532	0.8528	0.8499	0.8532	0.8516	0.8527
KEEL yeast-0-2-5-7-9_vs_3	0.9398	0.9436	0.9444	0.9440	0.9452	0.9464	0.9469	0.9479	0.9495	0.9464
KEEL yeast-0-3-5-9_vs_7-8	0.7669	0.7674	0.7673	0.7641	0.7631	0.7625	0.7676	0.7759	0.7667	0.7631
KEEL yeast-0-5-6-7-9_vs_4	0.8784	0.8829	0.8812	0.8820	0.8874	0.8881	0.8828	0.8869	0.8836	0.8871
KEEL yeast-1-2-8-9_vs_7	0.7667	0.7836	0.7842	0.7777	0.7884	0.7882	0.7917	0.7795	0.7814	0.7857
KEEL yeast-1-4-5-8_vs_7	0.6527	0.6657	0.6834	0.6814	0.6724	0.6820	0.6867	0.6832	0.6813	0.6828
KEEL yeast-1_vs_7	0.8007	0.8093	0.8177	0.8224	0.8150	0.8148	0.8103	0.8238	0.8196	0.8148
KEEL yeast-2_vs_4	0.9760	0.9787	0.9764	0.9725	0.9766	0.9737	0.9744	0.9732	0.9740	0.9730
KEEL yeast-2_vs_8	0.7873	0.7909	0.7947	0.8046	0.8031	0.8075	0.8014	0.8061	0.8083	0.8086
KEEL yeast1	0.7854	0.7893	0.7905	0.7907	0.7906	0.7911	0.7901	0.7907	0.7902	0.7907
KEEL yeast3	0.9708	0.9694	0.9714	0.9705	0.9701	0.9693	0.9687	0.9680	0.9700	0.9682
KEEL yeast4	0.9172	0.9224	0.9244	0.9240	0.9243	0.9246	0.9269	0.9248	0.9254	0.9272
KEEL yeast5	0.9885	0.9892	0.9884	0.9888	0.9894	0.9896	0.9898	0.9897	0.9895	0.9889
KEEL yeast6	0.9247	0.9315	0.9278	0.9277	0.9249	0.9293	0.9235	0.9184	0.9242	0.9244

Table 58: AUC for Ba-SM ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6848	0.7062	0.7224	0.7290	0.7327	0.7364	0.7406	0.7426	0.7446	0.7468
HDDT boundary	0.6568	0.6697	0.6751	0.6767	0.6777	0.6779	0.6787	0.6786	0.6801	0.6811
HDDT breast-y	0.6352	0.6391	0.6453	0.6450	0.6456	0.6478	0.6482	0.6502	0.6503	0.6503
HDDT cam	0.7261	0.7411	0.7484	0.7534	0.7556	0.7581	0.7591	0.7595	0.7601	0.7613
HDDT compustat	0.8947	0.9060	0.9090	0.9113	0.9130	0.9134	0.9141	0.9145	0.9145	0.9148
HDDT covtype	0.9916	0.9925	0.9928	0.9929	0.9930	0.9931	0.9931	0.9931	0.9932	0.9933
HDDT credit-g	0.7541	0.7655	0.7656	0.7671	0.7676	0.7672	0.7674	0.7678	0.7674	0.7671
HDDT estate	0.5973	0.6060	0.6088	0.6098	0.6106	0.6110	0.6112	0.6105	0.6106	0.6106
HDDT german-numer	0.7502	0.7637	0.7702	0.7717	0.7743	0.7762	0.7771	0.7769	0.7774	0.7778
HDDT heart-v	0.6986	0.6960	0.6977	0.6990	0.6998	0.6974	0.6986	0.6984	0.6972	0.6964
HDDT hypo	0.9901	0.9903	0.9904	0.9902	0.9900	0.9899	0.9900	0.9899	0.9899	0.9899
HDDT ism	0.9367	0.9414	0.9416	0.9423	0.9432	0.9441	0.9443	0.9442	0.9439	0.9444
HDDT letter	0.9986	0.9992	0.9993	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994
HDDT oil	0.8873	0.8985	0.9054	0.9098	0.9142	0.9160	0.9167	0.9189	0.9193	0.9193
HDDT optdigits	0.9962	0.9962	0.9961	0.9963	0.9963	0.9963	0.9964	0.9964	0.9964	0.9964
HDDT page	0.9899	0.9905	0.9908	0.9909	0.9909	0.9910	0.9911	0.9912	0.9912	0.9912
HDDT pendigits	0.9986	0.9990	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9994	0.9994
HDDT phoneme	0.9348	0.9380	0.9393	0.9401	0.9405	0.9405	0.9409	0.9411	0.9411	0.9412
HDDT satimage	0.9425	0.9473	0.9497	0.9504	0.9510	0.9516	0.9520	0.9523	0.9526	0.9526
HDDT segment	0.9944	0.9948	0.9960	0.9965	0.9968	0.9972	0.9974	0.9974	0.9974	0.9973
KEEL abalone19	0.7434	0.7702	0.7734	0.7739	0.7753	0.7772	0.7802	0.7804	0.7825	0.7836
KEEL abalone9-18	0.8131	0.8166	0.8228	0.8245	0.8268	0.8267	0.8258	0.8260	0.8272	0.8278
KEEL cleveland-0_vs_4	0.8967	0.9125	0.9199	0.9501	0.9570	0.9583	0.9567	0.9560	0.9557	0.9560
KEEL ecoli-0-1-3-7_vs_2-6	0.8281	0.8208	0.8359	0.8413	0.8458	0.8567	0.8559	0.8734	0.8730	0.8716
KEEL ecoli-0-1-4-6_vs_5	0.9332	0.9536	0.9573	0.9624	0.9635	0.9626	0.9637	0.9647	0.9693	0.9697
KEEL ecoli-0-1-4-7_vs_2-3	0.9246	0.9395	0.9418	0.9419	0.9414	0.9405	0.9412	0.9407	0.9395	0.9395
KEEL ecoli-0-1-4-7_vs_5-6	0.9422	0.9541	0.9536	0.9523	0.9593	0.9595	0.9577	0.9574	0.9571	0.9564
KEEL ecoli-0-1_vs-2-3-5	0.9569	0.9556	0.9547	0.9576	0.9566	0.9567	0.9570	0.9621	0.9623	0.9618
KEEL ecoli-0-1_vs_5	0.9483	0.9576	0.9683	0.9680	0.9679	0.9681	0.9678	0.9682	0.9676	0.9675
KEEL ecoli-0-2-3-4_vs_5	0.9505	0.9568	0.9610	0.9657	0.9639	0.9641	0.9678	0.9674	0.9674	0.9667
KEEL ecoli-0-2-6-7_vs_3-5	0.9175	0.9303	0.9291	0.9293	0.9302	0.9302	0.9303	0.9299	0.9301	0.9298
KEEL ecoli-0-3-4-6_vs_5	0.9411	0.9448	0.9513	0.9518	0.9518	0.9513	0.9513	0.9514	0.9510	0.9511
KEEL ecoli-0-3-4-7_vs_5-6	0.9411	0.9370	0.9400	0.9413	0.9398	0.9399	0.9410	0.9404	0.9398	0.9391
KEEL ecoli-0-3-4_vs_5	0.9111	0.9232	0.9324	0.9309	0.9393	0.9453	0.9457	0.9501	0.9500	0.9491
KEEL ecoli-0-4-6_vs_5	0.9323	0.9388	0.9371	0.9371	0.9372	0.9524	0.9615	0.9610	0.9619	0.9665
KEEL ecoli-0-6-7_vs_3-5	0.8984	0.9017	0.9222	0.9255	0.9257	0.9261	0.9282	0.9285	0.9315	0.9315
KEEL ecoli-0-6-7_vs_5	0.9493	0.9623	0.9609	0.9603	0.9614	0.9623	0.9626	0.9617	0.9625	0.9609
KEEL ecoli-0_vs_1	0.9834	0.9834	0.9831	0.9830	0.9830	0.9831	0.9830	0.9830	0.9842	0.9842
KEEL ecoli1	0.9443	0.9470	0.9502	0.9520	0.9532	0.9538	0.9538	0.9542	0.9544	0.9545
KEEL ecoli2	0.9421	0.9423	0.9434	0.9439	0.9430	0.9431	0.9451	0.9470	0.9465	0.9469
KEEL ecoli3	0.9247	0.9280	0.9309	0.9301	0.9296	0.9297	0.9296	0.9294	0.9311	0.9312
KEEL ecoli4	0.9254	0.9291	0.9383	0.9438	0.9484	0.9491	0.9493	0.9496	0.9498	0.9498
KEEL glass-0-1-2-3_vs_4-5	0.9539	0.9547	0.9550	0.9601	0.9602	0.9648	0.9645	0.9664	0.9663	0.9659
KEEL glass-0-1-4-6_vs_2	0.7028	0.7347	0.7490	0.7535	0.7556	0.7494	0.7475	0.7494	0.7483	0.7531
KEEL glass-0-1-5_vs_2	0.7007	0.7298	0.7406	0.7362	0.7277	0.7336	0.7335	0.7372	0.7344	0.7383
KEEL glass-0-1-6_vs_2	0.7101	0.7223	0.7301	0.7329	0.7346	0.7328	0.7319	0.7298	0.7330	0.7367
KEEL glass-0-1-6_vs_5	0.9921	0.9931	0.9932	0.9944	0.9948	0.9950	0.9941	0.9943	0.9945	0.9940
KEEL glass-0-4_vs_5	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940	0.9940
KEEL glass-0-6_vs_5	0.9887	0.9889	0.9918	0.9918	0.9915	0.9900	0.9898	0.9897	0.9910	0.9897
KEEL glass0	0.8582	0.8604	0.8640	0.8662	0.8669	0.8686	0.8685	0.8694	0.8699	0.8706
KEEL glass1	0.8000	0.8135	0.8215	0.8240	0.8227	0.8283	0.8270	0.8264	0.8283	0.8297
KEEL glass2	0.7858	0.7610	0.7766	0.7794	0.7806	0.7931	0.7909	0.7934	0.7983	0.7965
KEEL glass4	0.9077	0.9332	0.9268	0.9293	0.9267	0.9282	0.9327	0.9298	0.9276	0.9278
KEEL glass5	0.9864	0.9903	0.9915	0.9913	0.9897	0.9898	0.9896	0.9894	0.9902	0.9902
KEEL glass6	0.9419	0.9468	0.9475	0.9485	0.9514	0.9512	0.9511	0.9503	0.9500	0.9496
KEEL haberman	0.6962	0.6967	0.7041	0.7053	0.7057	0.7091	0.7081	0.7085	0.7092	0.7095
KEEL iris0	0.9860	0.9880	0.9880	0.9880	0.9880	0.9880	0.9880	0.9880	0.9880	0.9880
KEEL led7digit-0-2-4-5-6-	0.9600	0.9614	0.9602	0.9609	0.9623	0.9616	0.9616	0.9616	0.9615	0.9606
KEEL new-thyroid1	0.9926	0.9935	0.9939	0.9936	0.9934	0.9930	0.9930	0.9929	0.9929	0.9929
KEEL new-thyroid2	0.9820	0.9831	0.9863	0.9909	0.9911	0.9909	0.9911	0.9912	0.9912	0.9910
KEEL page-blocks-1-3_vs_4	0.9988	0.9991	0.9990	0.9991	0.9994	0.9994	0.9994	0.9995	0.9993	0.9993
KEEL pima	0.8015	0.8092	0.8124	0.8142	0.8153	0.8153	0.8165	0.8161	0.8163	0.8170
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9867	0.9879	0.9886	0.9889	0.9892	0.9891	0.9891	0.9891	0.9892	0.9893
KEEL vehicle1	0.8375	0.8430	0.8458	0.8471	0.8474	0.8481	0.8495	0.8500	0.8509	0.8516
KEEL vehicle2	0.9897	0.9907	0.9914	0.9918	0.9919	0.9922	0.9920	0.9921	0.9923	0.9924
KEEL vehicle3	0.8166	0.8319	0.8388	0.8403	0.8411	0.8411	0.8412	0.8412	0.8414	0.8418
KEEL vowel0	0.9958	0.9967	0.9970	0.9972	0.9970	0.9972	0.9971	0.9970	0.9970	0.9969
KEEL wisconsin	0.9903	0.9916	0.9914	0.9914	0.9915	0.9916	0.9916	0.9916	0.9916	0.9915
KEEL yeast-0-2-5-6_vs_3-7	0.8389	0.8487	0.8506	0.8506	0.8516	0.8512	0.8519	0.8523	0.8529	0.8525
KEEL yeast-0-2-5-7-9_vs_3	0.9394	0.9415	0.9430	0.9432	0.9432	0.9431	0.9423	0.9418	0.9420	0.9416
KEEL yeast-0-3-5-9_vs_7-8	0.7414	0.7471	0.7501	0.7509	0.7504	0.7511	0.7535	0.7532	0.7537	0.7559
KEEL yeast-0-5-6-7-9_vs_4	0.8824	0.8846	0.8898	0.8904	0.8910	0.8924	0.8926	0.8930	0.8930	0.8934
KEEL yeast-1-2-8-9_vs_7	0.7446	0.7482	0.7542	0.7539	0.7511	0.7490	0.7486	0.7513	0.7532	0.7543
KEEL yeast-1-4-5-8_vs_7	0.6473	0.6374	0.6491	0.6532	0.6521	0.6512	0.6529	0.6553	0.6568	0.6615
KEEL yeast-1_vs_7	0.7923	0.7972	0.7962	0.8054	0.8091	0.8076	0.8078	0.8073	0.8078	0.8074
KEEL yeast-2_vs_4	0.9733	0.9798	0.9792	0.9798	0.9799	0.9803	0.9808	0.9813	0.9812	0.9813
KEEL yeast-2_vs_8	0.8048	0.8060	0.8086	0.8071	0.8121	0.8091	0.8113	0.8137	0.8139	0.8142
KEEL yeast1	0.7798	0.7893	0.7907	0.7922	0.7925	0.7935	0.7939	0.7946	0.7949	0.7953
KEEL yeast3	0.9705	0.9714	0.9716	0.9717	0.9720	0.9728	0.9730	0.9728	0.9728	0.9727
KEEL yeast4	0.9262	0.9347	0.9345	0.9360	0.9371	0.9377	0.9377	0.9373	0.9374	0.9378
KEEL yeast5	0.9668	0.9770	0.9785	0.9809	0.9811	0.9828	0.9829	0.9831	0.9830	0.9829
KEEL yeast6	0.9026	0.9045	0.9058	0.9042	0.9048	0.9054	0.9066	0.9084	0.9085	0.9083

Table 59: AUC for RBBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6815	0.7014	0.7036	0.7126	0.7177	0.7143	0.7252	0.7266	0.7247	0.7297
HDDT boundary	0.6770	0.6941	0.7026	0.7013	0.7055	0.7007	0.6950	0.7104	0.7059	0.7042
HDDT breast-y	0.6413	0.6336	0.6316	0.6341	0.6320	0.6283	0.6307	0.6280	0.6267	0.6255
HDDT cam	0.7317	0.7503	0.7543	0.7585	0.7585	0.7621	0.7630	0.7654	0.7638	0.7657
HDDT compustat	0.9044	0.9157	0.9218	0.9278	0.9272	0.9294	0.9304	0.9297	0.9320	0.9323
HDDT covtype	0.9933	0.9944	0.9950	0.9956	0.9956	0.9956	0.9959	0.9958	0.9961	0.9960
HDDT credit-g	0.7319	0.7526	0.7527	0.7533	0.7541	0.7541	0.7530	0.7542	0.7550	0.7521
HDDT estate	0.6110	0.6103	0.6109	0.6114	0.6047	0.6074	0.6098	0.6163	0.6137	0.6119
HDDT german-numer	0.7499	0.7590	0.7581	0.7646	0.7555	0.7646	0.7641	0.7688	0.7636	0.7649
HDDT heart-v	0.6947	0.6969	0.7007	0.6942	0.7077	0.7004	0.6980	0.6979	0.7010	0.6976
HDDT hypo	0.9916	0.9913	0.9899	0.9920	0.9917	0.9906	0.9911	0.9912	0.9915	0.9918
HDDT ism	0.9164	0.9157	0.9153	0.9155	0.9161	0.9143	0.9137	0.9151	0.9143	0.9160
HDDT letter	0.9992	0.9997	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	1.0000	0.9999
HDDT oil	0.8979	0.9093	0.9149	0.9165	0.9253	0.9242	0.9308	0.9217	0.9113	0.9270
HDDT optdigits	0.9996	0.9997	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	1.0000
HDDT page	0.9898	0.9908	0.9906	0.9909	0.9907	0.9909	0.9910	0.9910	0.9913	0.9909
HDDT pendigits	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	1.0000	1.0000	1.0000
HDDT phoneme	0.9348	0.9418	0.9446	0.9456	0.9477	0.9484	0.9500	0.9493	0.9504	0.9505
HDDT satimage	0.9477	0.9529	0.9558	0.9578	0.9587	0.9599	0.9593	0.9622	0.9622	0.9624
HDDT segment	0.9995	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	1.0000	0.9999
KEEL abalone19	0.7321	0.7486	0.7468	0.7293	0.7275	0.7273	0.7299	0.7174	0.7218	0.7168
KEEL abalone9-18	0.7907	0.7977	0.8119	0.8129	0.8086	0.8026	0.8106	0.8092	0.8058	0.8043
KEEL cleveland-0_vs_4	0.9491	0.9549	0.9445	0.9493	0.9585	0.9465	0.9533	0.9556	0.9536	0.9573
KEEL ecoli-0-1-3-7_vs_2-6	0.8807	0.8979	0.9094	0.8825	0.9019	0.9127	0.8937	0.9016	0.9033	0.9155
KEEL ecoli-0-1-4-6_vs_5	0.9808	0.9883	0.9884	0.9869	0.9860	0.9892	0.9892	0.9879	0.9878	0.9880
KEEL ecoli-0-1-4-7_vs_2-3	0.9343	0.9324	0.9247	0.9302	0.9331	0.9307	0.9356	0.9375	0.9372	0.9428
KEEL ecoli-0-1-4-7_vs_5-6	0.9541	0.9591	0.9588	0.9621	0.9653	0.9690	0.9649	0.9695	0.9673	0.9663
KEEL ecoli-0-1_vs-2-3-5	0.9556	0.9498	0.9445	0.9402	0.9494	0.9494	0.9492	0.9442	0.9483	0.9475
KEEL ecoli-0-1_vs_5	0.9769	0.9815	0.9821	0.9824	0.9825	0.9847	0.9837	0.9838	0.9824	0.9837
KEEL ecoli-0-2-3-4_vs_5	0.9649	0.9737	0.9785	0.9803	0.9804	0.9819	0.9816	0.9811	0.9831	0.9845
KEEL ecoli-0-2-6-7_vs_3-5	0.9266	0.9239	0.9324	0.9295	0.9268	0.9274	0.9311	0.9297	0.9300	0.9309
KEEL ecoli-0-3-4-6_vs_5	0.9630	0.9721	0.9703	0.9721	0.9711	0.9788	0.9777	0.9811	0.9737	0.9787
KEEL ecoli-0-3-4-7_vs_5-6	0.9557	0.9517	0.9614	0.9612	0.9610	0.9618	0.9690	0.9641	0.9625	0.9649
KEEL ecoli-0-3-4_vs_5	0.9721	0.9676	0.9737	0.9833	0.9819	0.9825	0.9767	0.9803	0.9823	0.9818
KEEL ecoli-0-4-6_vs_5	0.9731	0.9825	0.9827	0.9820	0.9848	0.9857	0.9845	0.9851	0.9837	0.9834
KEEL ecoli-0-6-7_vs_3-5	0.9092	0.9294	0.9189	0.9243	0.9230	0.9195	0.9070	0.9174	0.9143	0.9247
KEEL ecoli-0-6-7_vs_5	0.9499	0.9574	0.9560	0.9608	0.9623	0.9609	0.9598	0.9662	0.9627	0.9676
KEEL ecoli-0_vs_1	0.9893	0.9921	0.9926	0.9911	0.9936	0.9930	0.9917	0.9925	0.9908	0.9933
KEEL ecoli1	0.9431	0.9475	0.9450	0.9443	0.9443	0.9469	0.9474	0.9457	0.9456	0.9472
KEEL ecoli2	0.9522	0.9579	0.9584	0.9606	0.9601	0.9658	0.9642	0.9666	0.9683	0.9658
KEEL ecoli3	0.9245	0.9279	0.9191	0.9232	0.9210	0.9203	0.9238	0.9222	0.9253	0.9175
KEEL ecoli4	0.9810	0.9806	0.9831	0.9815	0.9821	0.9823	0.9827	0.9849	0.9823	0.9838
KEEL glass-0-1-2-3_vs_4-5	0.9707	0.9735	0.9728	0.9727	0.9769	0.9772	0.9748	0.9760	0.9772	0.9792
KEEL glass-0-1-4-6_vs_2	0.7162	0.7515	0.7570	0.7381	0.7517	0.7554	0.7622	0.7835	0.7646	0.7752
KEEL glass-0-1-5_vs_2	0.7348	0.7271	0.7412	0.7456	0.7443	0.7494	0.7453	0.7521	0.7430	0.7449
KEEL glass-0-1-6_vs_2	0.7289	0.7388	0.7403	0.7510	0.7517	0.7470	0.7531	0.7431	0.7408	0.7357
KEEL glass-0-1-6_vs_5	0.9930	0.9882	0.9895	0.9869	0.9892	0.9907	0.9898	0.9908	0.9894	0.9885
KEEL glass-0-4_vs_5	0.9959	0.9948	0.9948	0.9934	0.9953	0.9947	0.9964	0.9959	0.9958	0.9964
KEEL glass-0-6_vs_5	0.9932	0.9952	0.9940	0.9924	0.9930	0.9916	0.9924	0.9904	0.9923	0.9895
KEEL glass0	0.8698	0.8799	0.8780	0.8773	0.8785	0.8831	0.8822	0.8872	0.8802	0.8829
KEEL glass1	0.8117	0.8276	0.8397	0.8492	0.8463	0.8484	0.8497	0.8502	0.8537	0.8500
KEEL glass2	0.7888	0.7807	0.7924	0.7910	0.7635	0.7760	0.7818	0.7757	0.7791	0.7791
KEEL glass4	0.9408	0.9453	0.9522	0.9521	0.9586	0.9583	0.9587	0.9568	0.9540	0.9649
KEEL glass5	0.9826	0.9882	0.9879	0.9815	0.9820	0.9886	0.9902	0.9896	0.9891	0.9896
KEEL glass6	0.9476	0.9516	0.9570	0.9643	0.9618	0.9617	0.9610	0.9609	0.9652	0.9606
KEEL haberman	0.6783	0.6902	0.6858	0.6945	0.6854	0.6924	0.6898	0.6920	0.6838	0.6785
KEEL iris0	0.9994	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.9573	0.9590	0.9585	0.9615	0.9621	0.9627	0.9612	0.9624	0.9635	0.9642
KEEL new-thyroid1	0.9973	0.9967	0.9967	0.9973	0.9978	0.9975	0.9973	0.9970	0.9975	0.9970
KEEL new-thyroid2	0.9966	0.9981	0.9982	0.9984	0.9981	0.9986	0.9985	0.9985	0.9984	0.9982
KEEL page-blocks-1-3_vs_4	0.9993	0.9996	0.9997	0.9997	0.9998	0.9997	0.9998	0.9998	0.9998	0.9998
KEEL pima	0.7991	0.8037	0.8046	0.8008	0.8013	0.8044	0.8065	0.8044	0.8024	0.8027
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9913	0.9934	0.9944	0.9950	0.9953	0.9949	0.9959	0.9958	0.9959	0.9963
KEEL vehicle1	0.8262	0.8382	0.8428	0.8455	0.8444	0.8438	0.8426	0.8502	0.8529	0.8492
KEEL vehicle2	0.9964	0.9975	0.9975	0.9975	0.9976	0.9979	0.9980	0.9979	0.9979	0.9981
KEEL vehicle3	0.8231	0.8310	0.8375	0.8449	0.8447	0.8432	0.8434	0.8473	0.8421	0.8471
KEEL vowel0	0.9992	0.9994	0.9994	0.9996	0.9995	0.9994	0.9996	0.9996	0.9997	0.9996
KEEL wisconsin	0.9915	0.9928	0.9929	0.9937	0.9930	0.9930	0.9935	0.9927	0.9929	0.9932
KEEL yeast-0-2-5-6_vs_3-7	0.8297	0.8368	0.8417	0.8424	0.8380	0.8404	0.8421	0.8392	0.8378	0.8421
KEEL yeast-0-2-5-7-9_vs_3	0.9376	0.9425	0.9446	0.9373	0.9470	0.9468	0.9448	0.9487	0.9458	0.9466
KEEL yeast-0-3-5-9_vs_7-8	0.7480	0.7531	0.7614	0.7615	0.7579	0.7517	0.7681	0.7486	0.7617	0.7592
KEEL yeast-0-5-6-7-9_vs_4	0.8711	0.8779	0.8748	0.8820	0.8799	0.8797	0.8817	0.8810	0.8747	0.8846
KEEL yeast-1-2-8-9_vs_7	0.7714	0.7631	0.7698	0.7586	0.7632	0.7503	0.7477	0.7595	0.7569	0.7591
KEEL yeast-1-4-5-8_vs_7	0.6517	0.6733	0.6638	0.6949	0.6695	0.6714	0.6684	0.6802	0.6762	0.6776
KEEL yeast-1_vs_7	0.7966	0.7978	0.8125	0.8057	0.7953	0.7940	0.7846	0.7948	0.8027	0.8004
KEEL yeast-2_vs_4	0.9676	0.9638	0.9705	0.9702	0.9747	0.9751	0.9658	0.9687	0.9733	0.9738
KEEL yeast-2_vs_8	0.8318	0.8230	0.8244	0.8247	0.8309	0.8346	0.8250	0.8301	0.8313	0.8280
KEEL yeast1	0.7769	0.7789	0.7775	0.7806	0.7815	0.7814	0.7763	0.7782	0.7757	0.7768
KEEL yeast3	0.9706	0.9655	0.9627	0.9649	0.9633	0.9607	0.9629	0.9637	0.9633	0.9627
KEEL yeast4	0.9275	0.9203	0.9137	0.9192	0.9185	0.9132	0.9111	0.9164	0.9171	0.9199
KEEL yeast5	0.9818	0.9822	0.9806	0.9784	0.9803	0.9782	0.9826	0.9738	0.9793	0.9809
KEEL yeast6	0.9053	0.8974	0.8864	0.8958	0.9111	0.9000	0.8972	0.9004	0.8928	0.9014

Table 60: F-measure for Ba-RB ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.1177	0.0916	0.0695	0.0784	0.0715	0.0764	0.0808	0.0792	0.0741	0.0798
HDDT boundary	0.0807	0.0969	0.1105	0.0960	0.0989	0.0931	0.0957	0.0920	0.0921	0.0860
HDDT breast-y	0.4270	0.3942	0.4013	0.4248	0.4297	0.4377	0.4370	0.4375	0.4494	0.4645
HDDT cam	0.1574	0.1844	0.1851	0.1902	0.1845	0.1793	0.1764	0.1754	0.1774	0.1784
HDDT compustat	0.3084	0.3407	0.3497	0.3617	0.3679	0.3595	0.3637	0.3595	0.3622	0.3632
HDDT covtype	0.8268	0.8411	0.8471	0.8476	0.8543	0.8563	0.8586	0.8616	0.8614	0.8619
HDDT credit-g	0.5110	0.5634	0.5751	0.5737	0.5771	0.5772	0.5747	0.5805	0.5791	0.5769
HDDT estate	0.2210	0.2129	0.2029	0.2201	0.2294	0.2126	0.2245	0.2337	0.2319	0.2288
HDDT german-numer	0.5276	0.5746	0.5874	0.5907	0.5952	0.5969	0.5928	0.5988	0.5971	0.5988
HDDT heart-v	0.4252	0.4539	0.4715	0.4725	0.4719	0.4635	0.4672	0.4538	0.4338	0.4415
HDDT hypo	0.8588	0.8647	0.8776	0.8844	0.8741	0.8751	0.8845	0.8840	0.8876	0.8876
HDDT ism	0.6050	0.6054	0.5723	0.5744	0.5886	0.5869	0.5901	0.5919	0.5893	0.5896
HDDT letter	0.9472	0.9557	0.9585	0.9595	0.9614	0.9605	0.9600	0.9602	0.9617	0.9603
HDDT oil	0.4805	0.5024	0.5285	0.5314	0.5446	0.5390	0.5407	0.5343	0.5387	0.5288
HDDT optdigits	0.9775	0.9798	0.9805	0.9789	0.9785	0.9787	0.9805	0.9796	0.9805	0.9807
HDDT page	0.8324	0.8557	0.8630	0.8604	0.8583	0.8586	0.8597	0.8586	0.8624	0.8631
HDDT pendigits	0.9687	0.9730	0.9757	0.9762	0.9772	0.9775	0.9769	0.9765	0.9767	0.9772
HDDT phoneme	0.7815	0.7878	0.7909	0.7939	0.7947	0.7948	0.7934	0.7935	0.7944	0.7936
HDDT satimage	0.5750	0.6225	0.6407	0.6440	0.6442	0.6415	0.6424	0.6443	0.6436	0.6416
HDDT segment	0.9674	0.9677	0.9753	0.9753	0.9765	0.9753	0.9750	0.9750	0.9753	0.9747
KEEL abalone19	0.0387	0.0390	0.0630	0.0532	0.0581	0.0541	0.0540	0.0606	0.0580	0.0472
KEEL abalone9-18	0.3214	0.3441	0.3290	0.3244	0.3355	0.3378	0.3468	0.3452	0.3485	0.3482
KEEL cleveland-0_vs_4	0.4942	0.5637	0.5430	0.5419	0.5587	0.6158	0.6119	0.6043	0.6012	0.5776
KEEL ecoli-0-1-3-7_vs_2-6	0.6371	0.6371	0.6371	0.6455	0.6544	0.6544	0.6544	0.6405	0.6512	0.6651
KEEL ecoli-0-1-4-6_vs_5	0.7083	0.7213	0.7045	0.7381	0.7374	0.7552	0.7552	0.7552	0.7552	0.7604
KEEL ecoli-0-1-4-7_vs_2-3	0.6519	0.6634	0.6877	0.6936	0.6962	0.7021	0.7084	0.7005	0.7052	0.6903
KEEL ecoli-0-1-4-7_vs_5-6	0.6756	0.7083	0.7103	0.6848	0.7032	0.6969	0.7067	0.7102	0.7194	0.7274
KEEL ecoli-0-1_vs-2-3-5	0.6861	0.6818	0.6856	0.6957	0.6921	0.6902	0.6990	0.6936	0.6963	0.7061
KEEL ecoli-0-1_vs_5	0.7245	0.7293	0.6966	0.7143	0.7318	0.7190	0.7157	0.7140	0.7141	0.7076
KEEL ecoli-0-2-3-4_vs_5	0.7438	0.7280	0.7285	0.7523	0.7565	0.7452	0.7421	0.7493	0.7614	0.7686
KEEL ecoli-0-2-6-7_vs_3-5	0.6969	0.7418	0.7518	0.7544	0.7584	0.7647	0.7597	0.7584	0.7584	0.7584
KEEL ecoli-0-3-4-6_vs_5	0.7703	0.7705	0.7578	0.7687	0.7634	0.7559	0.7632	0.7626	0.7715	0.7682
KEEL ecoli-0-3-4-7_vs_5-6	0.6918	0.6857	0.7207	0.7296	0.7312	0.7343	0.7256	0.7411	0.7451	0.7295
KEEL ecoli-0-3-4_vs_5	0.7488	0.7522	0.7543	0.7452	0.7581	0.7425	0.7337	0.7541	0.7797	0.7762
KEEL ecoli-0-4-6_vs_5	0.7536	0.7696	0.7813	0.7821	0.7860	0.7687	0.7659	0.7567	0.7625	0.7534
KEEL ecoli-0-6-7_vs_3-5	0.7124	0.7312	0.7188	0.7311	0.7245	0.7277	0.7179	0.7241	0.7278	0.7278
KEEL ecoli-0-6-7_vs_5	0.8159	0.7939	0.7852	0.7962	0.7887	0.7852	0.7887	0.7887	0.7887	0.7849
KEEL ecoli-0_vs_1	0.9765	0.9691	0.9765	0.9691	0.9655	0.9655	0.9655	0.9691	0.9716	0.9716
KEEL ecoli1	0.7712	0.7721	0.7790	0.7774	0.7794	0.7816	0.7843	0.7799	0.7820	0.7788
KEEL ecoli2	0.7407	0.7447	0.7878	0.7887	0.7927	0.7945	0.8003	0.7970	0.7965	0.7950
KEEL ecoli3	0.6020	0.6150	0.6207	0.6241	0.6229	0.6256	0.6155	0.6109	0.6207	0.6208
KEEL ecoli4	0.7071	0.6685	0.7066	0.6966	0.6939	0.6989	0.7032	0.7069	0.7105	0.7076
KEEL glass-0-1-2-3_vs_4-5	0.8405	0.8388	0.8378	0.8449	0.8515	0.8421	0.8485	0.8474	0.8457	0.8475
KEEL glass-0-1-4-6_vs_2	0.1194	0.1660	0.1290	0.1626	0.1518	0.1405	0.1516	0.1361	0.1346	0.1538
KEEL glass-0-1-5_vs_2	0.2071	0.2158	0.1860	0.1980	0.2143	0.2008	0.2146	0.1763	0.1799	0.1967
KEEL glass-0-1-6_vs_2	0.2318	0.1993	0.1885	0.1851	0.2001	0.1901	0.1848	0.1750	0.1921	0.1933
KEEL glass-0-1-6_vs_5	0.7490	0.7515	0.7700	0.7645	0.7815	0.7781	0.7922	0.7963	0.8014	0.7960
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505
KEEL glass-0-6_vs_5	0.7572	0.8362	0.8362	0.8124	0.8184	0.8346	0.8346	0.8346	0.8346	0.8346
KEEL glass0	0.7290	0.7235	0.7256	0.7274	0.7241	0.7178	0.7162	0.7202	0.7272	0.7231
KEEL glass1	0.6543	0.6663	0.6605	0.6735	0.6735	0.6755	0.6761	0.6683	0.6662	0.6632
KEEL glass2	0.1838	0.1864	0.1538	0.1569	0.1719	0.1743	0.1621	0.1678	0.1672	0.1538
KEEL glass4	0.5165	0.5177	0.5433	0.5549	0.5711	0.5741	0.5611	0.5536	0.5523	0.5651
KEEL glass5	0.6983	0.7000	0.7164	0.7365	0.7379	0.7391	0.7391	0.7501	0.7501	0.7446
KEEL glass6	0.8144	0.8075	0.8063	0.8189	0.8178	0.8172	0.8252	0.8297	0.8292	0.8271
KEEL haberman	0.4845	0.4919	0.4949	0.4977	0.4945	0.4922	0.5022	0.4997	0.5007	0.5033
KEEL iris0	0.9793	0.9793	0.9793	0.9793	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813
KEEL led7digit-0-2-4-5-6-	0.7360	0.7452	0.7630	0.7694	0.7731	0.7749	0.7749	0.7808	0.7829	0.7850
KEEL new-thyroid1	0.9051	0.9042	0.9094	0.9099	0.9097	0.9071	0.9153	0.9128	0.9227	0.9164
KEEL new-thyroid2	0.8986	0.9198	0.9078	0.8891	0.8904	0.8970	0.8955	0.9010	0.9010	0.9044
KEEL page-blocks-1-3_vs_4	0.7716	0.9297	0.9353	0.9358	0.9245	0.9392	0.9425	0.9392	0.9346	0.9318
KEEL pima	0.6648	0.6651	0.6643	0.6661	0.6689	0.6733	0.6708	0.6699	0.6692	0.6704
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.8760	0.8703	0.8693	0.8762	0.8804	0.8795	0.8805	0.8785	0.8800	0.8828
KEEL vehicle1	0.5905	0.6194	0.6265	0.6145	0.6139	0.6148	0.6119	0.6125	0.6108	0.6070
KEEL vehicle2	0.9256	0.9265	0.9244	0.9311	0.9330	0.9385	0.9409	0.9392	0.9405	0.9399
KEEL vehicle3	0.5814	0.6150	0.6194	0.6147	0.6069	0.6023	0.5958	0.5945	0.5898	0.5855
KEEL vowel0	0.8545	0.8738	0.8830	0.8808	0.8794	0.8775	0.8826	0.8813	0.8816	0.8819
KEEL wisconsin	0.9413	0.9456	0.9517	0.9504	0.9524	0.9519	0.9510	0.9524	0.9511	0.9506
KEEL yeast-0-2-5-6_vs_3-7	0.5674	0.5806	0.5816	0.5770	0.5910	0.5882	0.5927	0.5961	0.5971	0.5948
KEEL yeast-0-2-5-7-9_vs_3	0.7682	0.7735	0.7743	0.7711	0.7757	0.7757	0.7810	0.7810	0.7781	0.7781
KEEL yeast-0-3-5-9_vs_7-8	0.3360	0.3787	0.3831	0.3761	0.3714	0.3597	0.3722	0.3797	0.3932	0.3959
KEEL yeast-0-5-6-7-9_vs_4	0.4927	0.5094	0.5229	0.5198	0.5235	0.5140	0.5169	0.5108	0.5178	0.5188
KEEL yeast-1-2-8-9_vs_7	0.1713	0.1809	0.1707	0.1670	0.1638	0.1756	0.2013	0.1901	0.1991	0.1852
KEEL yeast-1-4-5-8_vs_7	0.1058	0.1018	0.0957	0.1524	0.1386	0.1428	0.1359	0.1371	0.1434	0.1404
KEEL yeast-1_vs_7	0.3239	0.3356	0.3052	0.3184	0.3286	0.3390	0.3281	0.3277	0.3226	0.3030
KEEL yeast-2_vs_4	0.7067	0.7297	0.7373	0.7490	0.7424	0.7455	0.7464	0.7463	0.7449	0.7461
KEEL yeast-2_vs_8	0.5844	0.5583	0.5838	0.5813	0.6207	0.6155	0.6154	0.6219	0.6303	0.6317
KEEL yeast1	0.5749	0.5938	0.5996	0.5948	0.6005	0.6009	0.5995	0.6012	0.6049	0.6057
KEEL yeast3	0.7725	0.7664	0.7782	0.7767	0.7837	0.7814	0.7824	0.7819	0.7844	0.7849
KEEL yeast4	0.3795	0.3816	0.3973	0.3774	0.3943	0.3913	0.3910	0.3948	0.4087	0.4131
KEEL yeast5	0.7282	0.7140	0.7240	0.7190	0.7204	0.7220	0.7242	0.7327	0.7263	0.7350
KEEL yeast6	0.4898	0.4771	0.4919	0.4647	0.4785	0.4825	0.4779	0.4948	0.4967	0.4955

Table 61: F-measure for RAMOBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.0957	0.0712	0.0664	0.0618	0.0619	0.0632	0.0603	0.0579	0.0596	0.0566
HDDT boundary	0.0904	0.0785	0.0807	0.0785	0.0765	0.0715	0.0791	0.0762	0.0744	0.0744
HDDT breast-y	0.4001	0.4009	0.4121	0.4098	0.4100	0.4088	0.4043	0.4094	0.4143	0.4118
HDDT cam	0.0901	0.0925	0.0974	0.0975	0.1003	0.0973	0.0993	0.1012	0.1001	0.1013
HDDT compustat	0.3882	0.3996	0.3923	0.3875	0.3874	0.3871	0.3953	0.3921	0.3845	0.3814
HDDT covtype	0.8897	0.8998	0.9022	0.9031	0.9039	0.9040	0.9046	0.9044	0.9052	0.9054
HDDT credit-g	0.4987	0.5083	0.5126	0.5098	0.5103	0.5098	0.5068	0.5128	0.5114	0.5143
HDDT estate	0.1446	0.1391	0.1372	0.1358	0.1363	0.1370	0.1358	0.1350	0.1341	0.1355
HDDT german-numer	0.5167	0.5224	0.5230	0.5255	0.5279	0.5273	0.5241	0.5234	0.5305	0.5292
HDDT heart-v	0.3991	0.3886	0.3948	0.3893	0.3952	0.3978	0.3962	0.3871	0.3882	0.3862
HDDT hypo	0.8880	0.8933	0.8905	0.8903	0.8927	0.8932	0.8930	0.8939	0.8948	0.8934
HDDT ism	0.6568	0.6652	0.6636	0.6662	0.6670	0.6675	0.6670	0.6681	0.6678	0.6686
HDDT letter	0.9712	0.9736	0.9760	0.9764	0.9765	0.9773	0.9775	0.9771	0.9771	0.9763
HDDT oil	0.4610	0.4586	0.4556	0.4414	0.4473	0.4643	0.4611	0.4741	0.4730	0.4611
HDDT optdigits	0.9862	0.9882	0.9895	0.9898	0.9902	0.9905	0.9904	0.9904	0.9905	0.9907
HDDT page	0.8635	0.8665	0.8662	0.8662	0.8663	0.8672	0.8679	0.8679	0.8680	0.8681
HDDT pendigits	0.9795	0.9834	0.9851	0.9864	0.9859	0.9865	0.9865	0.9867	0.9865	0.9862
HDDT phoneme	0.8003	0.8110	0.8124	0.8145	0.8153	0.8161	0.8171	0.8166	0.8166	0.8155
HDDT satimage	0.6668	0.6779	0.6848	0.6877	0.6897	0.6865	0.6880	0.6873	0.6899	0.6904
HDDT segment	0.9843	0.9864	0.9876	0.9855	0.9857	0.9872	0.9863	0.9866	0.9866	0.9881
KEEL abalone19	0.0294	0.0272	0.0275	0.0000	0.0095	0.0000	0.0000	0.0000	0.0000	0.0000
KEEL abalone9-18	0.3759	0.3811	0.3771	0.3679	0.3595	0.3730	0.3714	0.3754	0.3725	0.3747
KEEL cleveland-0_vs_4	0.4430	0.4657	0.4438	0.4471	0.4411	0.4236	0.4817	0.4833	0.4833	0.4463
KEEL ecoli-0-1-3-7_vs_2-6	0.3589	0.4000	0.3555	0.3527	0.3317	0.3411	0.3261	0.3455	0.3455	0.3427
KEEL ecoli-0-1-4-6_vs_5	0.7319	0.7490	0.7677	0.7753	0.7869	0.7869	0.7869	0.7869	0.7853	0.7869
KEEL ecoli-0-1-4-7_vs_2-3	0.6664	0.6720	0.6585	0.6624	0.6542	0.6604	0.6598	0.6605	0.6629	0.6665
KEEL ecoli-0-1-4-7_vs_5-6	0.7018	0.7506	0.7596	0.7572	0.7621	0.7550	0.7551	0.7594	0.7512	0.7473
KEEL ecoli-0-1_vs_2-3-5	0.6898	0.6835	0.6928	0.6873	0.6981	0.6998	0.6998	0.6924	0.6904	0.6886
KEEL ecoli-0-1_vs_5	0.7842	0.7711	0.7623	0.7438	0.7370	0.7401	0.7370	0.7314	0.7282	0.7314
KEEL ecoli-0-2-3-4_vs_5	0.7506	0.7351	0.7386	0.7457	0.7563	0.7569	0.7530	0.7530	0.7530	0.7530
KEEL ecoli-0-2-6-7_vs_3-5	0.7434	0.7346	0.7332	0.7156	0.7310	0.7418	0.7459	0.7346	0.7313	0.7190
KEEL ecoli-0-3-4-6_vs_5	0.7255	0.7298	0.7222	0.7290	0.7222	0.7301	0.7386	0.7326	0.7326	0.7258
KEEL ecoli-0-3-4-7_vs_5-6	0.7674	0.7828	0.7818	0.7753	0.7727	0.7757	0.7727	0.7788	0.7807	0.7757
KEEL ecoli-0-3-4_vs_5	0.6866	0.7319	0.7348	0.7312	0.7427	0.7371	0.7409	0.7409	0.7409	0.7409
KEEL ecoli-0-4-6_vs_5	0.7350	0.7416	0.7364	0.7142	0.7184	0.7172	0.7137	0.7131	0.7393	0.7104
KEEL ecoli-0-6-7_vs_3-5	0.6937	0.6918	0.6995	0.6921	0.6871	0.6871	0.6810	0.6839	0.6839	0.6839
KEEL ecoli-0-6-7_vs_5	0.7704	0.7725	0.7908	0.7851	0.7947	0.7947	0.7947	0.7947	0.7947	0.7845
KEEL ecoli-0_vs_1	0.9653	0.9666	0.9679	0.9691	0.9691	0.9679	0.9679	0.9679	0.9655	0.9666
KEEL ecoli1	0.7435	0.7468	0.7539	0.7548	0.7527	0.7543	0.7553	0.7505	0.7508	0.7493
KEEL ecoli2	0.7909	0.7973	0.8122	0.7857	0.7903	0.8012	0.7995	0.7995	0.8035	0.7987
KEEL ecoli3	0.5489	0.5105	0.5340	0.5097	0.5256	0.5370	0.5408	0.5328	0.5317	0.5417
KEEL ecoli4	0.6832	0.6750	0.6974	0.6920	0.7059	0.6786	0.6942	0.6879	0.6690	0.6690
KEEL glass-0-1-2-3_vs_4-5	0.8317	0.8462	0.8425	0.8461	0.8400	0.8386	0.8427	0.8427	0.8460	0.8460
KEEL glass-0-1-4-6_vs_2	0.2836	0.3046	0.2740	0.2631	0.2801	0.2776	0.2876	0.2768	0.2846	0.2693
KEEL glass-0-1-5_vs_2	0.2649	0.2499	0.2376	0.2411	0.2489	0.2420	0.2410	0.2435	0.2613	0.2442
KEEL glass-0-1-6_vs_2	0.2229	0.1893	0.1684	0.1862	0.1771	0.1760	0.1730	0.1741	0.1732	0.1748
KEEL glass-0-1-6_vs_5	0.7631	0.6782	0.6911	0.6767	0.6794	0.6794	0.6550	0.6800	0.6689	0.6741
KEEL glass-0-4_vs_5	0.8801	0.8801	0.9017	0.9160	0.9160	0.9160	0.9251	0.9394	0.9394	0.9394
KEEL glass-0-6_vs_5	0.7679	0.7988	0.7988	0.7738	0.7988	0.7738	0.7560	0.7560	0.7988	0.7738
KEEL glass0	0.6730	0.6916	0.6903	0.6981	0.7015	0.7025	0.7021	0.7072	0.6899	0.6893
KEEL glass1	0.6444	0.6679	0.6796	0.6943	0.6937	0.6903	0.6943	0.6886	0.6874	0.6960
KEEL glass2	0.2104	0.2120	0.1932	0.2130	0.2210	0.2262	0.2284	0.2389	0.2152	0.2177
KEEL glass4	0.4936	0.4715	0.4806	0.4790	0.5046	0.5078	0.4945	0.5008	0.5268	0.5268
KEEL glass5	0.6823	0.7020	0.7020	0.6711	0.6911	0.6959	0.6959	0.6959	0.6959	0.6959
KEEL glass6	0.8245	0.8301	0.8317	0.8218	0.8163	0.8204	0.8219	0.8232	0.8190	0.8232
KEEL haberman	0.5074	0.4856	0.4746	0.4711	0.4776	0.4755	0.4724	0.4761	0.4602	0.4624
KEEL iris0	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813
KEEL led7digit-0-2-4-5-6-	0.8095	0.8500	0.8500	0.8500	0.8500	0.8500	0.8500	0.8500	0.8500	0.8500
KEEL new-thyroid1	0.9082	0.9118	0.9063	0.9039	0.9014	0.9168	0.9195	0.9195	0.9195	0.9171
KEEL new-thyroid2	0.9446	0.9417	0.9387	0.9385	0.9356	0.9324	0.9296	0.9296	0.9296	0.9296
KEEL page-blocks-1-3_vs_4	0.9225	0.9094	0.9191	0.9226	0.9263	0.9263	0.9263	0.9263	0.9303	0.9303
KEEL pima	0.6467	0.6424	0.6402	0.6446	0.6369	0.6426	0.6437	0.6433	0.6477	0.6475
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.8951	0.9055	0.9107	0.9099	0.9103	0.9158	0.9140	0.9160	0.9124	0.9148
KEEL vehicle1	0.5778	0.5812	0.5855	0.5893	0.5921	0.5873	0.5900	0.5948	0.5971	0.5933
KEEL vehicle2	0.9473	0.9576	0.9596	0.9616	0.9597	0.9588	0.9580	0.9570	0.9576	0.9571
KEEL vehicle3	0.5650	0.5751	0.5735	0.5739	0.5757	0.5722	0.5708	0.5675	0.5744	0.5696
KEEL vowel0	0.9346	0.9479	0.9439	0.9496	0.9542	0.9585	0.9615	0.9637	0.9605	0.9583
KEEL wisconsin	0.9445	0.9493	0.9492	0.9498	0.9473	0.9482	0.9493	0.9497	0.9500	0.9505
KEEL yeast-0-2-5-6_vs_3-7	0.5716	0.5716	0.5674	0.5654	0.5709	0.5694	0.5746	0.5731	0.5763	0.5750
KEEL yeast-0-2-5-7-9_vs_3	0.7979	0.7930	0.7947	0.7962	0.7981	0.7963	0.7989	0.8002	0.7952	0.7952
KEEL yeast-0-3-5-9_vs_7-8	0.3871	0.3656	0.3481	0.3564	0.3633	0.3616	0.3588	0.3706	0.3714	0.3834
KEEL yeast-0-5-6-7-9_vs_4	0.4577	0.4692	0.4477	0.4633	0.4702	0.4789	0.4740	0.4618	0.4750	0.4750
KEEL yeast-1-2-8-9_vs_7	0.2272	0.2510	0.2588	0.2586	0.2606	0.2506	0.2484	0.2583	0.2640	0.2662
KEEL yeast-1-4-5-8_vs_7	0.0711	0.0652	0.0852	0.0778	0.0875	0.0799	0.0680	0.0746	0.0770	0.0756
KEEL yeast-1_vs_7	0.3324	0.3389	0.3443	0.3581	0.3544	0.3435	0.3709	0.3683	0.3732	0.3712
KEEL yeast-2_vs_4	0.7592	0.7527	0.7516	0.7638	0.7572	0.7648	0.7628	0.7583	0.7604	0.7605
KEEL yeast-2_vs_8	0.5601	0.5314	0.5535	0.5556	0.5576	0.5550	0.5543	0.5489	0.5434	0.5464
KEEL yeast1	0.5779	0.5796	0.5847	0.5829	0.5804	0.5837	0.5833	0.5847	0.5854	0.5878
KEEL yeast3	0.7626	0.7604	0.7676	0.7686	0.7691	0.7711	0.7706	0.7704	0.7681	0.7672
KEEL yeast4	0.3369	0.3256	0.3162	0.3279	0.3354	0.3407	0.3385	0.3367	0.3300	0.3283
KEEL yeast5	0.7133	0.7170	0.7109	0.7132	0.7105	0.7091	0.7078	0.7110	0.7113	0.7097
KEEL yeast6	0.4406	0.4070	0.4286	0.4355	0.4499	0.4447	0.4436	0.4225	0.4301	0.4374

Table 62: F-measure for RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.1754	0.1922	0.2011	0.2124	0.2213	0.2316	0.2349	0.2391	0.2430	0.2464
HDDT boundary	0.1091	0.1168	0.1253	0.1241	0.1233	0.1217	0.1279	0.1337	0.1333	0.1367
HDDT breast-y	0.4658	0.4860	0.4738	0.4603	0.4603	0.4675	0.4561	0.4492	0.4601	0.4571
HDDT cam	0.1925	0.2049	0.2126	0.2171	0.2219	0.2276	0.2320	0.2374	0.2396	0.2458
HDDT compustat	0.2370	0.2575	0.2686	0.2773	0.2865	0.2893	0.2948	0.2982	0.3007	0.3045
HDDT covtype	0.7272	0.7559	0.7703	0.7812	0.7907	0.7963	0.8012	0.8026	0.8051	0.8098
HDDT credit-g	0.5653	0.5672	0.5485	0.5432	0.5387	0.5378	0.5346	0.5305	0.5234	0.5185
HDDT estate	0.2636	0.2658	0.2682	0.2686	0.2679	0.2672	0.2690	0.2701	0.2703	0.2699
HDDT german-numer	0.5760	0.5708	0.5650	0.5561	0.5567	0.5496	0.5489	0.5435	0.5413	0.5392
HDDT heart-v	0.4172	0.4405	0.4372	0.4245	0.4304	0.4230	0.4174	0.4083	0.4088	0.4095
HDDT hypo	0.7501	0.7674	0.7655	0.7757	0.7838	0.7876	0.7916	0.8011	0.8113	0.8117
HDDT ism	0.3519	0.3744	0.4056	0.4130	0.4189	0.4260	0.4329	0.4349	0.4388	0.4418
HDDT letter	0.8496	0.8933	0.9114	0.9271	0.9384	0.9491	0.9535	0.9571	0.9597	0.9656
HDDT oil	0.2790	0.3203	0.3350	0.3565	0.3837	0.3916	0.4007	0.4181	0.4167	0.4217
HDDT optdigits	0.9752	0.9853	0.9872	0.9897	0.9913	0.9917	0.9926	0.9922	0.9940	0.9928
HDDT page	0.7973	0.8192	0.8279	0.8365	0.8430	0.8446	0.8504	0.8547	0.8526	0.8531
HDDT pendigits	0.9604	0.9739	0.9780	0.9807	0.9815	0.9836	0.9837	0.9846	0.9849	0.9852
HDDT phoneme	0.7750	0.7850	0.7863	0.7962	0.7978	0.8000	0.8004	0.8028	0.8041	0.8053
HDDT satimage	0.5417	0.5722	0.5908	0.6012	0.6111	0.6177	0.6216	0.6307	0.6289	0.6347
HDDT segment	0.9758	0.9823	0.9840	0.9864	0.9873	0.9891	0.9870	0.9879	0.9897	0.9921
KEEL abalone19	0.0333	0.0400	0.0413	0.0396	0.0397	0.0443	0.0409	0.0435	0.0424	0.0399
KEEL abalone9-18	0.2434	0.2608	0.2720	0.2758	0.2827	0.2960	0.2882	0.2939	0.3011	0.2863
KEEL cleveland-0_vs_4	0.4395	0.5027	0.5125	0.5715	0.5656	0.5718	0.6155	0.5950	0.6246	0.6296
KEEL ecoli-0-1-3-7_vs_2-6	0.2081	0.2389	0.2481	0.3025	0.2792	0.2953	0.3331	0.3361	0.3242	0.3827
KEEL ecoli-0-1-4-6_vs_5	0.6395	0.6829	0.7285	0.7364	0.7465	0.7489	0.7731	0.7708	0.7705	0.7684
KEEL ecoli-0-1-4-7_vs_2-3	0.5818	0.6244	0.6428	0.6531	0.6405	0.6778	0.6985	0.6838	0.7165	0.6844
KEEL ecoli-0-1-4-7_vs_5-6	0.5863	0.6234	0.6725	0.6583	0.6505	0.7066	0.7060	0.7220	0.7134	0.7064
KEEL ecoli-0-1_vs_2-3-5	0.6386	0.6743	0.6925	0.6712	0.6841	0.7030	0.6899	0.7083	0.7134	0.7204
KEEL ecoli-0-1_vs_5	0.6430	0.7405	0.7458	0.7680	0.7656	0.7709	0.7858	0.7744	0.7865	0.7612
KEEL ecoli-0-2-3-4_vs_5	0.6712	0.7155	0.7316	0.7308	0.7709	0.7574	0.7414	0.7635	0.7717	0.7708
KEEL ecoli-0-2-6-7_vs_3-5	0.6244	0.6715	0.6641	0.7003	0.6723	0.6977	0.7220	0.7272	0.7277	0.7249
KEEL ecoli-0-3-4-6_vs_5	0.6328	0.6787	0.6979	0.7191	0.7353	0.7158	0.7147	0.7452	0.7411	0.7545
KEEL ecoli-0-3-4-7_vs_5-6	0.6150	0.6964	0.7353	0.7474	0.7478	0.7672	0.7595	0.7796	0.7891	0.7825
KEEL ecoli-0-3-4_vs_5	0.6856	0.7266	0.7723	0.7798	0.7801	0.7693	0.7631	0.7743	0.7869	0.7738
KEEL ecoli-0-4-6_vs_5	0.6793	0.7316	0.7534	0.7664	0.7505	0.7622	0.7545	0.7537	0.7474	0.7209
KEEL ecoli-0-6-7_vs_3-5	0.6576	0.6689	0.6648	0.6789	0.6887	0.6810	0.6756	0.6824	0.6962	0.6864
KEEL ecoli-0-6-7_vs_5	0.6745	0.7114	0.7276	0.7383	0.7404	0.7497	0.7608	0.7643	0.7754	0.7734
KEEL ecoli-0_vs_1	0.9654	0.9679	0.9678	0.9703	0.9690	0.9691	0.9690	0.9678	0.9678	0.9691
KEEL ecoli1	0.7806	0.7730	0.7749	0.7790	0.7746	0.7702	0.7622	0.7705	0.7873	0.7711
KEEL ecoli2	0.7484	0.7791	0.7846	0.8040	0.8066	0.8241	0.8081	0.8110	0.8206	0.8215
KEEL ecoli3	0.5663	0.5446	0.5973	0.5850	0.5778	0.5978	0.5979	0.6007	0.5975	0.5899
KEEL ecoli4	0.5653	0.6637	0.7135	0.6847	0.7189	0.7490	0.7744	0.7424	0.7574	0.7749
KEEL glass-0-1-2-3_vs_4-5	0.8567	0.8590	0.8474	0.8433	0.8537	0.8470	0.8414	0.8522	0.8501	0.8445
KEEL glass-0-1-4-6_vs_2	0.1979	0.2179	0.2231	0.2392	0.2309	0.2199	0.2112	0.2540	0.2641	0.2702
KEEL glass-0-1-5_vs_2	0.2419	0.2473	0.2590	0.2354	0.2743	0.2741	0.2647	0.2502	0.2154	0.2399
KEEL glass-0-1-6_vs_2	0.1861	0.2114	0.2118	0.2241	0.2241	0.2432	0.2190	0.1916	0.2493	0.2198
KEEL glass-0-1-6_vs_5	0.5322	0.5961	0.6931	0.7410	0.7479	0.7728	0.7938	0.7721	0.8291	0.8163
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9251	0.9283	0.9283	0.9140	0.9251	0.9140	0.9283	0.9140
KEEL glass-0-6_vs_5	0.6858	0.7809	0.8818	0.7572	0.8364	0.8147	0.7947	0.8303	0.8303	0.8605
KEEL glass0	0.7326	0.7280	0.7300	0.7345	0.7311	0.7275	0.7221	0.7294	0.7152	0.7420
KEEL glass1	0.6512	0.6733	0.6809	0.6914	0.6995	0.7010	0.7105	0.7057	0.6923	0.7077
KEEL glass2	0.2555	0.2337	0.2430	0.2273	0.2055	0.2351	0.2171	0.2707	0.2588	0.2290
KEEL glass4	0.4113	0.4919	0.5006	0.5536	0.5312	0.5453	0.5717	0.5545	0.5581	0.5728
KEEL glass5	0.4998	0.5221	0.5595	0.6736	0.7293	0.7704	0.8141	0.7922	0.7973	0.8224
KEEL glass6	0.7697	0.8051	0.8253	0.8212	0.8312	0.8420	0.8444	0.8449	0.8417	0.8524
KEEL haberman	0.4983	0.4960	0.4992	0.4903	0.4939	0.4940	0.4976	0.4998	0.5011	0.5014
KEEL iris0	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813
KEEL led7digit-0-2-4-5-6-	0.5923	0.6423	0.6520	0.6740	0.6795	0.6805	0.6902	0.7087	0.6878	0.6979
KEEL new-thyroid1	0.8739	0.9041	0.9257	0.9278	0.9168	0.9259	0.9338	0.9289	0.9313	0.9304
KEEL new-thyroid2	0.9074	0.9145	0.9552	0.9414	0.9424	0.9423	0.9461	0.9389	0.9497	0.9387
KEEL page-blocks-1-3_vs_4	0.7488	0.8673	0.8769	0.9095	0.9138	0.9308	0.9483	0.9275	0.9315	0.9355
KEEL pima	0.6489	0.6377	0.6439	0.6401	0.6419	0.6321	0.6313	0.6241	0.6308	0.6281
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900	0.7900
KEEL vehicle0	0.8804	0.8973	0.9077	0.9143	0.9148	0.9222	0.9225	0.9258	0.9255	0.9242
KEEL vehicle1	0.6047	0.6069	0.6107	0.5993	0.6033	0.5970	0.5928	0.5957	0.5877	0.5824
KEEL vehicle2	0.9394	0.9486	0.9573	0.9605	0.9597	0.9623	0.9637	0.9627	0.9627	0.9663
KEEL vehicle3	0.5868	0.5891	0.5984	0.5903	0.5828	0.5827	0.5831	0.5735	0.5823	0.5815
KEEL vowel0	0.8255	0.8639	0.9091	0.9281	0.9310	0.9337	0.9382	0.9487	0.9470	0.9432
KEEL wisconsin	0.9496	0.9524	0.9507	0.9521	0.9525	0.9496	0.9485	0.9507	0.9503	0.9502
KEEL yeast-0-2-5-6_vs_3-7	0.5071	0.5119	0.5287	0.5381	0.5455	0.5366	0.5313	0.5500	0.5470	0.5546
KEEL yeast-0-2-5-7-9_vs_3	0.7206	0.7386	0.7391	0.7528	0.7476	0.7570	0.7757	0.7677	0.7739	0.7717
KEEL yeast-0-3-5-9_vs_7-8	0.3377	0.3690	0.3617	0.3685	0.3701	0.3832	0.3826	0.3978	0.3961	0.3943
KEEL yeast-0-5-6-7-9_vs_4	0.4654	0.4776	0.5043	0.5001	0.5200	0.5290	0.5076	0.5297	0.5050	0.5222
KEEL yeast-1-2-8-9_vs_7	0.1640	0.1793	0.1869	0.1977	0.1931	0.2090	0.2114	0.2021	0.2062	0.2144
KEEL yeast-1-4-5-8_vs_7	0.1343	0.1467	0.1545	0.1528	0.1515	0.1796	0.1666	0.1921	0.1866	0.1847
KEEL yeast-1_vs_7	0.3209	0.3392	0.3677	0.3680	0.3650	0.3633	0.3720	0.3766	0.3843	0.3819
KEEL yeast-2_vs_4	0.7250	0.7183	0.7224	0.7221	0.7308	0.7158	0.7307	0.7273	0.7294	0.7310
KEEL yeast-2_vs_8	0.2808	0.3621	0.4081	0.4173	0.4791	0.4779	0.4949	0.5165	0.5127	0.5354
KEEL yeast1	0.5853	0.5935	0.5903	0.5865	0.5908	0.5920	0.5909	0.5899	0.5893	0.5899
KEEL yeast3	0.7311	0.7391	0.7433	0.7599	0.7579	0.7644	0.7685	0.7613	0.7689	0.7676
KEEL yeast4	0.2719	0.2976	0.3110	0.3074	0.3270	0.3441	0.3439	0.3440	0.3423	0.3540
KEEL yeast5	0.4964	0.5322	0.5441	0.5706	0.5802	0.5645	0.5801	0.6240	0.5985	0.6152
KEEL yeast6	0.2509	0.3045	0.3212	0.3362	0.3526	0.3508	0.3437	0.3558	0.3668	0.3793

Table 63: F-measure for Ba-SM ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.0500	0.0404	0.0323	0.0314	0.0304	0.0314	0.0261	0.0282	0.0289	0.0279
HDDT boundary	0.0519	0.0514	0.0613	0.0644	0.0648	0.0645	0.0521	0.0547	0.0497	0.0552
HDDT breast-y	0.4010	0.4160	0.3975	0.4066	0.4035	0.4023	0.4045	0.3961	0.4023	0.4064
HDDT cam	0.1268	0.1248	0.1225	0.1219	0.1223	0.1188	0.1179	0.1172	0.1174	0.1163
HDDT compustat	0.3648	0.3796	0.3897	0.3916	0.3934	0.3923	0.3925	0.3950	0.3933	0.3980
HDDT covtype	0.8668	0.8726	0.8742	0.8755	0.8768	0.8765	0.8772	0.8768	0.8767	0.8774
HDDT credit-g	0.5356	0.5501	0.5504	0.5524	0.5566	0.5556	0.5555	0.5531	0.5492	0.5495
HDDT estate	0.1984	0.2037	0.2042	0.1990	0.1997	0.1960	0.1955	0.1967	0.1995	0.1970
HDDT german-numer	0.5224	0.5293	0.5445	0.5369	0.5368	0.5442	0.5478	0.5451	0.5481	0.5485
HDDT heart-v	0.4048	0.4260	0.4297	0.4205	0.4309	0.4148	0.4209	0.4221	0.4231	0.4116
HDDT hypo	0.8849	0.8899	0.8856	0.8836	0.8876	0.8858	0.8892	0.8904	0.8910	0.8896
HDDT ism	0.6141	0.6296	0.6301	0.6337	0.6339	0.6369	0.6391	0.6401	0.6407	0.6399
HDDT letter	0.9441	0.9467	0.9469	0.9477	0.9480	0.9488	0.9494	0.9488	0.9493	0.9489
HDDT oil	0.4930	0.4985	0.5199	0.5113	0.5273	0.5264	0.5152	0.5161	0.5288	0.5226
HDDT optdigits	0.9798	0.9806	0.9814	0.9815	0.9821	0.9822	0.9819	0.9819	0.9821	0.9824
HDDT page	0.8572	0.8606	0.8611	0.8623	0.8628	0.8652	0.8640	0.8649	0.8648	0.8640
HDDT pendigits	0.9691	0.9720	0.9717	0.9724	0.9722	0.9725	0.9726	0.9726	0.9729	0.9725
HDDT phoneme	0.7902	0.7947	0.7978	0.7994	0.7989	0.7990	0.7996	0.7998	0.8007	0.8004
HDDT satimage	0.6389	0.6477	0.6524	0.6528	0.6536	0.6576	0.6575	0.6564	0.6565	0.6575
HDDT segment	0.9728	0.9738	0.9735	0.9738	0.9744	0.9735	0.9735	0.9741	0.9738	0.9738
KEEL abalone19	0.0238	0.0367	0.0472	0.0431	0.0429	0.0396	0.0407	0.0416	0.0377	0.0400
KEEL abalone9-18	0.3546	0.3523	0.3534	0.3607	0.3509	0.3454	0.3587	0.3500	0.3504	0.3505
KEEL cleveland-0_vs_4	0.5729	0.5287	0.5414	0.5280	0.5449	0.5385	0.5471	0.5522	0.5403	0.5455
KEEL ecoli-0-1-3-7_vs_2-6	0.5705	0.5598	0.6131	0.5971	0.6321	0.6321	0.6321	0.6055	0.6162	0.5705
KEEL ecoli-0-1-4-6_vs_5	0.7684	0.7698	0.7723	0.7510	0.7531	0.7582	0.7617	0.7779	0.7674	0.7745
KEEL ecoli-0-1-4-7_vs_2-3	0.6634	0.6874	0.6870	0.7027	0.6836	0.7018	0.7036	0.7063	0.7092	0.7001
KEEL ecoli-0-1-4-7_vs_5-6	0.6670	0.7060	0.7023	0.7277	0.7290	0.7196	0.7256	0.7425	0.7370	0.7327
KEEL ecoli-0-1_vs_2-3-5	0.7138	0.7097	0.7059	0.7256	0.7302	0.7281	0.7427	0.7619	0.7512	0.7494
KEEL ecoli-0-1_vs_5	0.7032	0.7202	0.7161	0.7178	0.7114	0.7156	0.7114	0.7186	0.7268	0.7227
KEEL ecoli-0-2-3-4_vs_5	0.7513	0.7522	0.7670	0.7583	0.7658	0.7733	0.7651	0.7608	0.7661	0.7666
KEEL ecoli-0-2-6-7_vs_3-5	0.7401	0.7692	0.7636	0.7639	0.7631	0.7689	0.7689	0.7647	0.7647	0.7684
KEEL ecoli-0-3-4-6_vs_5	0.7453	0.7590	0.7890	0.7886	0.7776	0.7841	0.7630	0.7728	0.7826	0.7828
KEEL ecoli-0-3-4-7_vs_5-6	0.7138	0.7090	0.7240	0.7198	0.7288	0.7198	0.7202	0.7314	0.7359	0.7275
KEEL ecoli-0-3-4_vs_5	0.7226	0.7315	0.7402	0.7371	0.7428	0.7486	0.7428	0.7486	0.7386	0.7486
KEEL ecoli-0-4-6_vs_5	0.7590	0.7655	0.7297	0.7229	0.7376	0.7417	0.7325	0.7233	0.7262	0.7266
KEEL ecoli-0-6-7_vs_3-5	0.7198	0.7272	0.7280	0.7167	0.7040	0.7201	0.7229	0.7126	0.7164	0.7198
KEEL ecoli-0-6-7_vs_5	0.7801	0.8001	0.8050	0.8167	0.8125	0.8196	0.8157	0.8122	0.8179	0.8217
KEEL ecoli-0_vs_1	0.9704	0.9753	0.9753	0.9753	0.9753	0.9753	0.9753	0.9753	0.9753	0.9753
KEEL ecoli1	0.7796	0.7842	0.7865	0.7865	0.7822	0.7932	0.7938	0.7940	0.7987	0.7932
KEEL ecoli2	0.8118	0.8154	0.8193	0.8250	0.8099	0.8075	0.8052	0.8076	0.8035	0.8052
KEEL ecoli3	0.5944	0.6063	0.6119	0.6214	0.6401	0.6325	0.6272	0.6175	0.6360	0.6286
KEEL ecoli4	0.7436	0.7299	0.7329	0.7242	0.7225	0.7214	0.7128	0.7146	0.7327	0.7327
KEEL glass-0-1-2-3_vs_4-5	0.8643	0.8621	0.8570	0.8514	0.8544	0.8624	0.8558	0.8573	0.8534	0.8553
KEEL glass-0-1-4-6_vs_2	0.2472	0.2413	0.2197	0.2351	0.2377	0.2254	0.2493	0.2366	0.2260	0.2128
KEEL glass-0-1-5_vs_2	0.2461	0.2214	0.2145	0.1881	0.2029	0.2258	0.2331	0.2051	0.2265	0.2266
KEEL glass-0-1-6_vs_2	0.1241	0.1756	0.1710	0.1888	0.1729	0.1763	0.1634	0.1773	0.1773	0.1792
KEEL glass-0-1-6_vs_5	0.7053	0.7471	0.7666	0.7739	0.8209	0.8209	0.8154	0.7836	0.7912	0.7670
KEEL glass-0-4_vs_5	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505	0.9505
KEEL glass-0-6_vs_5	0.8237	0.8346	0.8346	0.8346	0.8279	0.8279	0.8346	0.8346	0.8279	0.8279
KEEL glass0	0.7184	0.7402	0.7305	0.7218	0.7300	0.7299	0.7279	0.7289	0.7309	0.7281
KEEL glass1	0.6338	0.6520	0.6525	0.6581	0.6611	0.6531	0.6532	0.6508	0.6487	0.6612
KEEL glass2	0.1325	0.1442	0.1608	0.1773	0.1941	0.2070	0.1921	0.1840	0.2179	0.1634
KEEL glass4	0.5101	0.5354	0.5429	0.4987	0.5114	0.5191	0.5404	0.5230	0.5338	0.5338
KEEL glass5	0.7097	0.7240	0.7462	0.7557	0.7363	0.7542	0.7754	0.7586	0.7658	0.7658
KEEL glass6	0.8274	0.8228	0.8202	0.8264	0.8264	0.8249	0.8405	0.8405	0.8444	0.8412
KEEL haberman	0.4716	0.4707	0.4670	0.4726	0.4814	0.4949	0.4826	0.4933	0.4930	0.4920
KEEL iris0	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813
KEEL led7digit-0-2-4-5-6-	0.7772	0.7843	0.7898	0.7899	0.7900	0.7880	0.7843	0.7825	0.7792	0.7825
KEEL new-thyroid1	0.8894	0.9137	0.9107	0.9082	0.9135	0.9098	0.9135	0.9070	0.9070	0.9042
KEEL new-thyroid2	0.9000	0.9054	0.9100	0.9132	0.9108	0.9108	0.9170	0.9117	0.9141	0.9164
KEEL page-blocks-1-3_vs_4	0.9357	0.9325	0.9325	0.9325	0.9325	0.9325	0.9325	0.9325	0.9325	0.9325
KEEL pima	0.6405	0.6514	0.6544	0.6544	0.6597	0.6587	0.6631	0.6629	0.6616	0.6628
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.8785	0.8791	0.8810	0.8841	0.8830	0.8820	0.8819	0.8815	0.8826	0.8826
KEEL vehicle1	0.5795	0.5939	0.5905	0.5894	0.5863	0.5877	0.5896	0.5867	0.5904	0.5907
KEEL vehicle2	0.9282	0.9264	0.9280	0.9267	0.9285	0.9281	0.9273	0.9281	0.9286	0.9299
KEEL vehicle3	0.5581	0.5556	0.5697	0.5699	0.5715	0.5724	0.5707	0.5696	0.5746	0.5739
KEEL vowel0	0.8884	0.8917	0.8997	0.8962	0.9000	0.9024	0.9028	0.9009	0.8970	0.8996
KEEL wisconsin	0.9430	0.9444	0.9466	0.9453	0.9470	0.9471	0.9453	0.9466	0.9483	0.9462
KEEL yeast-0-2-5-6_vs_3-7	0.5678	0.5911	0.5904	0.5824	0.5893	0.5947	0.5961	0.6001	0.6022	0.6021
KEEL yeast-0-2-5-7-9_vs_3	0.7879	0.7912	0.7878	0.7871	0.7907	0.7887	0.7907	0.7912	0.7900	0.7917
KEEL yeast-0-3-5-9_vs_7-8	0.3383	0.4012	0.3873	0.3857	0.3902	0.3901	0.4021	0.3929	0.3934	0.3878
KEEL yeast-0-5-6-7-9_vs_4	0.5021	0.4899	0.5186	0.5110	0.5198	0.5188	0.5241	0.5223	0.5263	0.5121
KEEL yeast-1-2-8-9_vs_7	0.1333	0.1665	0.1631	0.1680	0.1610	0.1698	0.1716	0.1670	0.1665	0.1588
KEEL yeast-1-4-5-8_vs_7	0.0952	0.0667	0.0757	0.0809	0.0936	0.0684	0.0760	0.0831	0.0840	0.0905
KEEL yeast-1_vs_7	0.2947	0.2496	0.2453	0.2437	0.2642	0.2874	0.2672	0.2426	0.2424	0.2426
KEEL yeast-2_vs_4	0.7264	0.7295	0.7340	0.7273	0.7355	0.7431	0.7390	0.7418	0.7380	0.7355
KEEL yeast-2_vs_8	0.5928	0.5880	0.6067	0.6078	0.6284	0.6305	0.6187	0.6187	0.6187	0.6367
KEEL yeast1	0.5801	0.5920	0.5907	0.5943	0.5932	0.5953	0.5964	0.5977	0.5960	0.5976
KEEL yeast3	0.7882	0.7930	0.7945	0.7966	0.7952	0.7940	0.7945	0.7962	0.7969	0.7951
KEEL yeast4	0.4149	0.4304	0.4161	0.4194	0.4286	0.4276	0.4335	0.4227	0.4334	0.4364
KEEL yeast5	0.7189	0.7424	0.7348	0.7302	0.7299	0.7365	0.7393	0.7396	0.7352	0.7364
KEEL yeast6	0.5222	0.5502	0.5471	0.5344	0.5358	0.5307	0.5323	0.5313	0.5300	0.5389

Table 64: F-measure for RBBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.0658	0.0387	0.0191	0.0185	0.0115	0.0077	0.0084	0.0084	0.0077	0.0045
HDDT boundary	0.0779	0.0742	0.0600	0.0504	0.0553	0.0549	0.0414	0.0505	0.0444	0.0384
HDDT breast-y	0.3820	0.3821	0.4133	0.4275	0.4110	0.4352	0.4176	0.4144	0.4255	0.4102
HDDT cam	0.1775	0.1698	0.1453	0.1450	0.1360	0.1361	0.1500	0.1471	0.1477	0.1377
HDDT compustat	0.4042	0.4066	0.4379	0.4326	0.4347	0.4509	0.4547	0.4309	0.4400	0.4627
HDDT covtype	0.8761	0.8903	0.8979	0.8996	0.9031	0.9015	0.9016	0.9031	0.9055	0.9058
HDDT credit-g	0.5297	0.5084	0.5316	0.5143	0.5213	0.5147	0.5180	0.5166	0.5186	0.5148
HDDT estate	0.0245	0.0356	0.0569	0.0635	0.0702	0.0755	0.0723	0.0881	0.0879	0.0832
HDDT german-numer	0.5333	0.5108	0.5319	0.5287	0.5194	0.5333	0.5239	0.5240	0.5257	0.5268
HDDT heart-v	0.3586	0.3891	0.4125	0.3903	0.4137	0.4185	0.4154	0.3896	0.4181	0.4053
HDDT hypo	0.8831	0.8905	0.8940	0.8870	0.8896	0.8901	0.8887	0.8909	0.8878	0.8900
HDDT ism	0.6454	0.6587	0.6683	0.6672	0.6682	0.6725	0.6724	0.6745	0.6718	0.6765
HDDT letter	0.9683	0.9732	0.9731	0.9765	0.9753	0.9775	0.9778	0.9777	0.9777	0.9767
HDDT oil	0.4345	0.4493	0.5181	0.4824	0.5681	0.5006	0.5314	0.5610	0.5323	0.5131
HDDT optdigits	0.9884	0.9927	0.9925	0.9929	0.9935	0.9929	0.9935	0.9929	0.9936	0.9938
HDDT page	0.8615	0.8697	0.8678	0.8717	0.8747	0.8710	0.8733	0.8728	0.8730	0.8727
HDDT pendigits	0.9817	0.9861	0.9876	0.9877	0.9873	0.9889	0.9894	0.9893	0.9891	0.9886
HDDT phoneme	0.7702	0.7969	0.8094	0.8075	0.8122	0.8155	0.8134	0.8110	0.8127	0.8165
HDDT satimage	0.6354	0.6644	0.6772	0.6831	0.6874	0.6884	0.6940	0.6904	0.6965	0.6976
HDDT segment	0.9870	0.9906	0.9899	0.9906	0.9930	0.9908	0.9921	0.9924	0.9921	0.9911
KEEL abalone19	0.0498	0.0411	0.0388	0.0413	0.0460	0.0274	0.0342	0.0264	0.0384	0.0392
KEEL abalone9-18	0.3483	0.3597	0.3657	0.3479	0.3801	0.3689	0.3719	0.3560	0.3351	0.3578
KEEL cleveland-0_vs_4	0.5501	0.5863	0.5338	0.5141	0.5546	0.5355	0.5357	0.5231	0.5511	0.5395
KEEL ecoli-0-1-3-7_vs_2-6	0.4826	0.4649	0.4471	0.4538	0.4650	0.4461	0.4738	0.5027	0.4371	0.4805
KEEL ecoli-0-1-4-6_vs_5	0.7781	0.7677	0.7875	0.7936	0.8004	0.8083	0.7980	0.7930	0.7964	0.7919
KEEL ecoli-0-1-4-7_vs_2-3	0.7085	0.7025	0.6820	0.6940	0.6913	0.6896	0.7079	0.7062	0.7060	0.7018
KEEL ecoli-0-1-4-7_vs_5-6	0.7488	0.7414	0.7373	0.7339	0.7353	0.7727	0.7728	0.7562	0.7660	0.7650
KEEL ecoli-0-1_vs-2-3-5	0.7170	0.7456	0.7636	0.7564	0.7584	0.7498	0.7317	0.7464	0.7421	0.7577
KEEL ecoli-0-1_vs_5	0.7575	0.8005	0.7986	0.7756	0.7937	0.7898	0.7887	0.7975	0.7837	0.7957
KEEL ecoli-0-2-3-4_vs_5	0.7498	0.7477	0.7513	0.7605	0.7819	0.7609	0.7636	0.7647	0.7785	0.7527
KEEL ecoli-0-2-6-7_vs_3-5	0.7348	0.7542	0.7448	0.7536	0.7666	0.7397	0.7680	0.7531	0.7518	0.7329
KEEL ecoli-0-3-4-6_vs_5	0.7670	0.7423	0.7604	0.7589	0.7649	0.7375	0.7776	0.7672	0.7638	0.7625
KEEL ecoli-0-3-4-7_vs_5-6	0.7827	0.8005	0.7941	0.7979	0.8060	0.7976	0.7991	0.8064	0.8009	0.7904
KEEL ecoli-0-3-4_vs_5	0.7549	0.8110	0.7936	0.7486	0.7815	0.7439	0.7488	0.7491	0.7464	0.7529
KEEL ecoli-0-4-6_vs_5	0.7149	0.7482	0.7803	0.7857	0.7878	0.7880	0.7507	0.7739	0.7552	0.7584
KEEL ecoli-0-6-7_vs_3-5	0.6850	0.6958	0.6892	0.7160	0.7181	0.7023	0.7058	0.7126	0.7076	0.6885
KEEL ecoli-0-6-7_vs_5	0.7836	0.7905	0.7745	0.7926	0.8074	0.7888	0.7930	0.7812	0.7958	0.7850
KEEL ecoli-0_vs_1	0.9642	0.9654	0.9666	0.9678	0.9666	0.9679	0.9679	0.9679	0.9666	0.9666
KEEL ecoli1	0.7593	0.7627	0.7551	0.7703	0.7586	0.7584	0.7602	0.7624	0.7534	0.7600
KEEL ecoli2	0.7920	0.8085	0.8063	0.8037	0.8133	0.8139	0.8105	0.8221	0.8174	0.8149
KEEL ecoli3	0.5349	0.5679	0.5168	0.5394	0.5500	0.5591	0.5277	0.5338	0.5353	0.5577
KEEL ecoli4	0.7516	0.7448	0.7523	0.7542	0.7664	0.7614	0.7503	0.7849	0.7759	0.7753
KEEL glass-0-1-2-3_vs_4-5	0.8431	0.8344	0.8375	0.8435	0.8476	0.8488	0.8370	0.8383	0.8424	0.8513
KEEL glass-0-1-4-6_vs_2	0.1936	0.3056	0.2647	0.2630	0.2658	0.2768	0.2509	0.2714	0.2811	0.2810
KEEL glass-0-1-5_vs_2	0.2713	0.3111	0.2306	0.2213	0.2060	0.2770	0.2468	0.2825	0.2371	0.3056
KEEL glass-0-1-6_vs_2	0.2518	0.2665	0.2069	0.2463	0.2184	0.2264	0.2348	0.2038	0.2164	0.1873
KEEL glass-0-1-6_vs_5	0.7747	0.7513	0.7245	0.6967	0.7050	0.6629	0.6829	0.6860	0.6967	0.7009
KEEL glass-0-4_vs_5	0.8258	0.8436	0.8314	0.8544	0.8894	0.8258	0.8807	0.8779	0.8668	0.9001
KEEL glass-0-6_vs_5	0.7663	0.7663	0.7655	0.7905	0.7988	0.7988	0.7905	0.7988	0.7988	0.7988
KEEL glass0	0.6787	0.7118	0.7074	0.6972	0.7080	0.7169	0.7142	0.7144	0.6843	0.7037
KEEL glass1	0.6211	0.6559	0.6831	0.6870	0.6922	0.6773	0.6902	0.6786	0.6916	0.6895
KEEL glass2	0.3160	0.3060	0.2923	0.2781	0.2743	0.2818	0.2617	0.2563	0.2557	0.2621
KEEL glass4	0.5240	0.5634	0.5903	0.5450	0.5220	0.5744	0.5409	0.5203	0.5384	0.5275
KEEL glass5	0.7190	0.7278	0.7629	0.7556	0.7162	0.7629	0.7629	0.7568	0.7335	0.7346
KEEL glass6	0.8454	0.8569	0.8524	0.8430	0.8456	0.8527	0.8461	0.8515	0.8483	0.8513
KEEL haberman	0.2383	0.2722	0.2983	0.3072	0.3245	0.3305	0.3049	0.3652	0.3359	0.3285
KEEL iris0	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813	0.9813
KEEL led7digit-0-2-4-5-6-	0.7625	0.7728	0.7721	0.7791	0.7727	0.7775	0.7722	0.7783	0.7771	0.7694
KEEL new-thyroid1	0.9152	0.9052	0.9158	0.9192	0.9114	0.9246	0.9209	0.9385	0.9252	0.9256
KEEL new-thyroid2	0.9293	0.9343	0.9463	0.9359	0.9391	0.9446	0.9362	0.9419	0.9481	0.9419
KEEL page-blocks-1-3_vs_4	0.9402	0.9568	0.9618	0.9719	0.9714	0.9613	0.9679	0.9714	0.9642	0.9674
KEEL pima	0.6330	0.6310	0.6264	0.6197	0.6303	0.6253	0.6220	0.6303	0.6178	0.6137
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9090	0.9204	0.9264	0.9318	0.9305	0.9281	0.9358	0.9360	0.9378	0.9382
KEEL vehicle1	0.5504	0.5439	0.5564	0.5510	0.5562	0.5602	0.5639	0.5626	0.5684	0.5653
KEEL vehicle2	0.9535	0.9591	0.9624	0.9659	0.9639	0.9643	0.9666	0.9662	0.9653	0.9660
KEEL vehicle3	0.5237	0.5243	0.5285	0.5391	0.5249	0.5292	0.5328	0.5475	0.5454	0.5365
KEEL vowel0	0.9567	0.9639	0.9679	0.9745	0.9741	0.9687	0.9722	0.9711	0.9758	0.9766
KEEL wisconsin	0.9460	0.9508	0.9479	0.9500	0.9522	0.9496	0.9507	0.9509	0.9513	0.9513
KEEL yeast-0-2-5-6_vs_3-7	0.5610	0.5851	0.5731	0.5777	0.5815	0.5844	0.5726	0.5904	0.5943	0.5903
KEEL yeast-0-2-5-7-9_vs_3	0.7679	0.7945	0.8001	0.7933	0.8048	0.7943	0.8056	0.8029	0.7965	0.7959
KEEL yeast-0-3-5-9_vs_7-8	0.3633	0.3866	0.3742	0.3711	0.3794	0.3470	0.3934	0.3673	0.3745	0.3670
KEEL yeast-0-5-6-7-9_vs_4	0.4925	0.4761	0.4886	0.5234	0.4928	0.4913	0.4929	0.4851	0.4858	0.5055
KEEL yeast-1-2-8-9_vs_7	0.2107	0.2581	0.2512	0.2465	0.2715	0.2604	0.2617	0.2394	0.2660	0.2587
KEEL yeast-1-4-5-8_vs_7	0.1610	0.1328	0.0999	0.1406	0.1133	0.1118	0.0752	0.0861	0.0870	0.0911
KEEL yeast-1_vs_7	0.3313	0.3664	0.3520	0.3507	0.3834	0.3610	0.3496	0.3609	0.3746	0.3434
KEEL yeast-2_vs_4	0.7262	0.7395	0.7662	0.7718	0.7610	0.7688	0.7582	0.7516	0.7730	0.7559
KEEL yeast-2_vs_8	0.4895	0.5907	0.5923	0.5953	0.5942	0.6017	0.6005	0.5925	0.5969	0.6100
KEEL yeast1	0.5200	0.5388	0.5304	0.5397	0.5342	0.5486	0.5349	0.5372	0.5196	0.5260
KEEL yeast3	0.7545	0.7636	0.7545	0.7582	0.7623	0.7548	0.7597	0.7594	0.7589	0.7564
KEEL yeast4	0.3957	0.3898	0.3757	0.3821	0.3738	0.3771	0.3871	0.3944	0.3958	0.3652
KEEL yeast5	0.7259	0.7316	0.7111	0.7138	0.7215	0.7062	0.7180	0.7268	0.7035	0.7029
KEEL yeast6	0.4702	0.5096	0.4826	0.4935	0.4894	0.4991	0.4866	0.5151	0.4787	0.4951

Table 65: G-mean for Ba-RB ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.2693	0.2251	0.1914	0.2031	0.1915	0.1993	0.2061	0.2043	0.1977	0.2061
HDDT boundary	0.2104	0.2586	0.2707	0.2485	0.2491	0.2316	0.2439	0.2289	0.2376	0.2292
HDDT breast-y	0.5648	0.5313	0.5340	0.5573	0.5664	0.5727	0.5726	0.5746	0.5862	0.5999
HDDT cam	0.3210	0.3538	0.3545	0.3614	0.3536	0.3465	0.3424	0.3405	0.3432	0.3444
HDDT compustat	0.7591	0.7399	0.7322	0.7160	0.7127	0.7207	0.7281	0.7386	0.7412	0.7444
HDDT covtype	0.9547	0.9563	0.9566	0.9573	0.9558	0.9551	0.9551	0.9545	0.9552	0.9549
HDDT credit-g	0.6301	0.6805	0.6902	0.6887	0.6922	0.6931	0.6899	0.6957	0.6932	0.6924
HDDT estate	0.4854	0.4627	0.4349	0.4752	0.5002	0.4585	0.4834	0.5131	0.5088	0.4989
HDDT german-numer	0.6472	0.6892	0.7009	0.7035	0.7079	0.7103	0.7058	0.7118	0.7098	0.7119
HDDT heart-v	0.5725	0.6108	0.6283	0.6284	0.6270	0.6173	0.6241	0.6062	0.5818	0.5854
HDDT hypo	0.9635	0.9639	0.9622	0.9613	0.9607	0.9620	0.9613	0.9612	0.9608	0.9608
HDDT ism	0.8641	0.8725	0.8819	0.8791	0.8799	0.8790	0.8796	0.8813	0.8824	0.8815
HDDT letter	0.9718	0.9753	0.9710	0.9729	0.9714	0.9694	0.9690	0.9695	0.9708	0.9694
HDDT oil	0.7289	0.6942	0.7046	0.7251	0.7224	0.7248	0.7289	0.7219	0.7223	0.7123
HDDT optdigits	0.9891	0.9891	0.9893	0.9886	0.9888	0.9889	0.9888	0.9890	0.9898	0.9900
HDDT page	0.9561	0.9569	0.9556	0.9551	0.9565	0.9563	0.9565	0.9559	0.9564	0.9559
HDDT pendigits	0.9837	0.9838	0.9857	0.9849	0.9853	0.9852	0.9849	0.9852	0.9851	0.9857
HDDT phoneme	0.8465	0.8549	0.8644	0.8661	0.8667	0.8657	0.8658	0.8651	0.8668	0.8676
HDDT satimage	0.8526	0.8447	0.8388	0.8260	0.8288	0.8319	0.8324	0.8331	0.8349	0.8352
HDDT segment	0.9854	0.9859	0.9872	0.9875	0.9879	0.9875	0.9879	0.9879	0.9880	0.9879
KEEL abalone19	0.1974	0.1798	0.2552	0.2373	0.2376	0.2374	0.2297	0.2401	0.2400	0.2193
KEEL abalone9-18	0.6191	0.6416	0.6289	0.6144	0.6208	0.6024	0.6031	0.5995	0.5996	0.5961
KEEL cleveland-0_vs_4	0.6840	0.6801	0.6694	0.6641	0.6656	0.7123	0.7191	0.7102	0.7103	0.6885
KEEL ecoli-0-1-3-7_vs_2-6	0.8256	0.8256	0.8256	0.8259	0.8263	0.8263	0.8263	0.8130	0.8133	0.8266
KEEL ecoli-0-1-4-6_vs_5	0.8610	0.8628	0.8658	0.8550	0.8550	0.8567	0.8567	0.8567	0.8567	0.8520
KEEL ecoli-0-1-4-7_vs_2-3	0.8359	0.8389	0.8320	0.8254	0.8215	0.8188	0.8203	0.8195	0.8200	0.8185
KEEL ecoli-0-1-4-7_vs_5-6	0.7849	0.8130	0.8137	0.7875	0.8084	0.8060	0.8165	0.8072	0.8179	0.8223
KEEL ecoli-0-1_vs-2-3-5	0.8475	0.8498	0.8544	0.8490	0.8529	0.8445	0.8581	0.8527	0.8571	0.8623
KEEL ecoli-0-1_vs_5	0.8245	0.8256	0.8118	0.8340	0.8411	0.8345	0.8341	0.8337	0.8386	0.8329
KEEL ecoli-0-2-3-4_vs_5	0.8646	0.8726	0.8815	0.8895	0.8901	0.8883	0.8877	0.8887	0.8905	0.8915
KEEL ecoli-0-2-6-7_vs_3-5	0.8529	0.8618	0.8636	0.8641	0.8645	0.8654	0.8645	0.8645	0.8645	0.8645
KEEL ecoli-0-3-4-6_vs_5	0.8734	0.8783	0.8671	0.8688	0.8679	0.8670	0.8732	0.8731	0.8790	0.8786
KEEL ecoli-0-3-4-7_vs_5-6	0.8555	0.8381	0.8577	0.8541	0.8442	0.8447	0.8354	0.8380	0.8466	0.8481
KEEL ecoli-0-3-4_vs_5	0.8481	0.8643	0.8555	0.8502	0.8565	0.8429	0.8487	0.8561	0.8582	0.8636
KEEL ecoli-0-4-6_vs_5	0.8487	0.8671	0.8834	0.8842	0.8806	0.8746	0.8741	0.8627	0.8725	0.8667
KEEL ecoli-0-6-7_vs_3-5	0.8400	0.8471	0.8504	0.8522	0.8514	0.8518	0.8505	0.8514	0.8518	0.8518
KEEL ecoli-0-6-7_vs_5	0.9104	0.9076	0.9066	0.9080	0.9071	0.9066	0.9071	0.9071	0.9071	0.9066
KEEL ecoli-0_vs_1	0.9814	0.9772	0.9814	0.9772	0.9751	0.9751	0.9751	0.9772	0.9785	0.9785
KEEL ecoli1	0.8834	0.8851	0.8842	0.8810	0.8819	0.8836	0.8848	0.8842	0.8838	0.8830
KEEL ecoli2	0.8797	0.8845	0.8942	0.8901	0.8898	0.8903	0.8916	0.8890	0.8856	0.8870
KEEL ecoli3	0.8616	0.8750	0.8578	0.8482	0.8427	0.8434	0.8332	0.8324	0.8342	0.8393
KEEL ecoli4	0.8445	0.8416	0.8451	0.8341	0.8337	0.8388	0.8391	0.8393	0.8396	0.8394
KEEL glass-0-1-2-3_vs_4-5	0.9101	0.9140	0.9125	0.9144	0.9167	0.9145	0.9169	0.9142	0.9137	0.9143
KEEL glass-0-1-4-6_vs_2	0.2177	0.2847	0.2078	0.2869	0.2707	0.2604	0.2528	0.2595	0.2594	0.2946
KEEL glass-0-1-5_vs_2	0.4169	0.3871	0.3539	0.3759	0.3793	0.3465	0.3788	0.3222	0.3226	0.3379
KEEL glass-0-1-6_vs_2	0.5493	0.4242	0.4032	0.3792	0.4233	0.3807	0.3726	0.3596	0.3708	0.3709
KEEL glass-0-1-6_vs_5	0.9214	0.9697	0.9531	0.9526	0.9651	0.9732	0.9756	0.9762	0.9768	0.9669
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939
KEEL glass-0-6_vs_5	0.8864	0.9102	0.9102	0.8917	0.8927	0.8948	0.8948	0.8948	0.8948	0.8948
KEEL glass0	0.8005	0.7981	0.8011	0.8016	0.7985	0.7941	0.7926	0.7947	0.8005	0.7977
KEEL glass1	0.7263	0.7361	0.7321	0.7426	0.7424	0.7435	0.7444	0.7367	0.7351	0.7321
KEEL glass2	0.3889	0.3897	0.3415	0.3425	0.3874	0.4000	0.3774	0.3535	0.3410	0.3087
KEEL glass4	0.7296	0.7560	0.7748	0.7679	0.7697	0.7871	0.7776	0.7608	0.7606	0.7707
KEEL glass5	0.9259	0.9442	0.9457	0.9472	0.9571	0.9811	0.9811	0.9749	0.9749	0.9744
KEEL glass6	0.9091	0.9075	0.9097	0.9154	0.9154	0.9179	0.9199	0.9210	0.9209	0.9204
KEEL haberman	0.6135	0.6379	0.6441	0.6473	0.6465	0.6445	0.6520	0.6486	0.6493	0.6517
KEEL iris0	0.9796	0.9796	0.9796	0.9796	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8958	0.8919	0.8995	0.9004	0.9009	0.9011	0.9011	0.9018	0.9020	0.9023
KEEL new-thyroid1	0.9478	0.9428	0.9441	0.9467	0.9467	0.9436	0.9500	0.9495	0.9516	0.9454
KEEL new-thyroid2	0.9480	0.9511	0.9484	0.9397	0.9417	0.9457	0.9453	0.9463	0.9463	0.9475
KEEL page-blocks-1-3_vs_4	0.9650	0.9911	0.9851	0.9817	0.9773	0.9889	0.9891	0.9889	0.9817	0.9815
KEEL pima	0.7376	0.7396	0.7390	0.7399	0.7420	0.7461	0.7445	0.7437	0.7431	0.7441
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9412	0.9403	0.9423	0.9431	0.9452	0.9428	0.9426	0.9409	0.9415	0.9432
KEEL vehicle1	0.7299	0.7622	0.7688	0.7548	0.7519	0.7509	0.7451	0.7469	0.7441	0.7409
KEEL vehicle2	0.9608	0.9630	0.9619	0.9641	0.9640	0.9666	0.9673	0.9663	0.9668	0.9661
KEEL vehicle3	0.7255	0.7619	0.7662	0.7572	0.7487	0.7429	0.7347	0.7347	0.7291	0.7259
KEEL vowel0	0.9551	0.9626	0.9698	0.9716	0.9724	0.9711	0.9737	0.9716	0.9696	0.9707
KEEL wisconsin	0.9552	0.9599	0.9658	0.9643	0.9658	0.9652	0.9642	0.9656	0.9644	0.9637
KEEL yeast-0-2-5-6_vs_3-7	0.7332	0.7488	0.7457	0.7469	0.7631	0.7688	0.7643	0.7691	0.7702	0.7667
KEEL yeast-0-2-5-7-9_vs_3	0.8741	0.8898	0.8880	0.8912	0.8967	0.8975	0.8982	0.9001	0.8978	0.8978
KEEL yeast-0-3-5-9_vs_7-8	0.6527	0.6393	0.6372	0.6563	0.6522	0.6545	0.6581	0.6417	0.6469	0.6555
KEEL yeast-0-5-6-7-9_vs_4	0.6878	0.6986	0.7151	0.7108	0.7156	0.7157	0.7186	0.7156	0.7187	0.7229
KEEL yeast-1-2-8-9_vs_7	0.5337	0.5129	0.4802	0.4713	0.4181	0.4428	0.4797	0.4622	0.4686	0.4446
KEEL yeast-1-4-5-8_vs_7	0.3550	0.3217	0.3012	0.4114	0.3812	0.3820	0.3718	0.3679	0.3616	0.3577
KEEL yeast-1_vs_7	0.6812	0.6798	0.6229	0.6197	0.6300	0.6497	0.6378	0.6357	0.6181	0.5886
KEEL yeast-2_vs_4	0.9106	0.9167	0.9170	0.9141	0.9163	0.9200	0.9134	0.9116	0.9130	0.9132
KEEL yeast-2_vs_8	0.7013	0.6985	0.7070	0.7007	0.7327	0.7268	0.7206	0.7211	0.7335	0.7279
KEEL yeast1	0.6941	0.7155	0.7192	0.7156	0.7202	0.7206	0.7195	0.7210	0.7229	0.7236
KEEL yeast3	0.9180	0.9261	0.9278	0.9326	0.9304	0.9279	0.9286	0.9275	0.9259	0.9270
KEEL yeast4	0.7464	0.8010	0.7990	0.8004	0.7925	0.7882	0.7903	0.7908	0.7882	0.7911
KEEL yeast5	0.9321	0.9382	0.9341	0.9406	0.9363	0.9364	0.9388	0.9394	0.9320	0.9395
KEEL yeast6	0.7956	0.8180	0.8024	0.8076	0.7947	0.7951	0.7915	0.7957	0.7857	0.7890

Table 66: G-mean for Ba-RUS ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6809	0.6921	0.6979	0.6977	0.6988	0.7010	0.7012	0.7017	0.7029	0.7011
HDDT boundary	0.6225	0.6381	0.6468	0.6509	0.6565	0.6452	0.6508	0.6608	0.6568	0.6570
HDDT breast-y	0.5952	0.6113	0.6155	0.6187	0.6197	0.6191	0.6224	0.6240	0.6179	0.6188
HDDT cam	0.6624	0.6640	0.6688	0.6718	0.6711	0.6699	0.6704	0.6693	0.6694	0.6714
HDDT compustat	0.7946	0.7988	0.7997	0.8012	0.8013	0.8034	0.8051	0.8063	0.8066	0.8057
HDDT covtype	0.9492	0.9508	0.9508	0.9511	0.9517	0.9518	0.9519	0.9517	0.9518	0.9518
HDDT credit-g	0.6722	0.6793	0.6808	0.6817	0.6839	0.6867	0.6872	0.6891	0.6904	0.6913
HDDT estate	0.5791	0.5866	0.5922	0.5931	0.5955	0.5959	0.5918	0.5924	0.5919	0.5949
HDDT german-numer	0.6859	0.6919	0.6966	0.7003	0.7042	0.7067	0.7071	0.7089	0.7102	0.7097
HDDT heart-v	0.5891	0.5882	0.6057	0.6015	0.6080	0.6064	0.6091	0.6021	0.6011	0.6043
HDDT hypo	0.9570	0.9581	0.9590	0.9595	0.9586	0.9594	0.9602	0.9594	0.9594	0.9594
HDDT ism	0.8868	0.8920	0.8933	0.8927	0.8940	0.8938	0.8929	0.8946	0.8949	0.8943
HDDT letter	0.9758	0.9794	0.9799	0.9814	0.9809	0.9806	0.9801	0.9800	0.9797	0.9796
HDDT oil	0.7899	0.8131	0.8233	0.8210	0.8194	0.8197	0.8215	0.8220	0.8226	0.8279
HDDT optdigits	0.9855	0.9859	0.9860	0.9862	0.9865	0.9868	0.9869	0.9871	0.9872	0.9869
HDDT page	0.9528	0.9540	0.9552	0.9550	0.9558	0.9554	0.9560	0.9561	0.9561	0.9560
HDDT pendigits	0.9772	0.9786	0.9792	0.9794	0.9789	0.9796	0.9796	0.9794	0.9795	0.9791
HDDT phoneme	0.8525	0.8571	0.8599	0.8613	0.8626	0.8621	0.8626	0.8628	0.8634	0.8644
HDDT satimage	0.8577	0.8588	0.8641	0.8650	0.8660	0.8664	0.8657	0.8668	0.8663	0.8667
HDDT segment	0.9808	0.9830	0.9819	0.9828	0.9824	0.9823	0.9824	0.9824	0.9823	0.9821
KEEL abalone19	0.7114	0.7224	0.7211	0.7235	0.7242	0.7318	0.7226	0.7273	0.7320	0.7332
KEEL abalone9-18	0.6967	0.7120	0.7117	0.7138	0.7194	0.7278	0.7084	0.7049	0.7111	0.7110
KEEL cleveland-0_vs_4	0.7739	0.8158	0.8077	0.8280	0.8313	0.8329	0.8343	0.8354	0.8353	0.8347
KEEL ecoli-0-1-3-7_vs_2-6	0.8048	0.8083	0.8139	0.8131	0.8111	0.8172	0.8222	0.8227	0.7970	0.7992
KEEL ecoli-0-1-4-6_vs_5	0.8640	0.8809	0.8816	0.8654	0.8654	0.8673	0.8639	0.8649	0.8649	0.8652
KEEL ecoli-0-1-4-7_vs_2-3	0.8268	0.8342	0.8439	0.8255	0.8216	0.8266	0.8239	0.8382	0.8377	0.8379
KEEL ecoli-0-1-4-7_vs_5-6	0.8418	0.8406	0.8326	0.8465	0.8471	0.8482	0.8442	0.8433	0.8406	0.8410
KEEL ecoli-0-1_vs-2-3-5	0.8420	0.8674	0.8552	0.8513	0.8473	0.8478	0.8496	0.8548	0.8552	0.8512
KEEL ecoli-0-1_vs_5	0.8485	0.8456	0.8587	0.8548	0.8615	0.8630	0.8531	0.8635	0.8515	0.8565
KEEL ecoli-0-2-3-4_vs_5	0.8894	0.8855	0.8945	0.8846	0.8803	0.8852	0.8797	0.8846	0.8803	0.8890
KEEL ecoli-0-2-6-7_vs_3-5	0.8415	0.8377	0.8509	0.8459	0.8504	0.8549	0.8595	0.8599	0.8589	0.8599
KEEL ecoli-0-3-4-6_vs_5	0.8408	0.8553	0.8585	0.8498	0.8628	0.8573	0.8573	0.8613	0.8624	0.8618
KEEL ecoli-0-3-4-7_vs_5-6	0.8274	0.8164	0.8343	0.8352	0.8323	0.8310	0.8285	0.8351	0.8363	0.8355
KEEL ecoli-0-3-4_vs_5	0.8339	0.8630	0.8653	0.8667	0.8620	0.8609	0.8579	0.8579	0.8591	0.8589
KEEL ecoli-0-4-6_vs_5	0.8450	0.8612	0.8649	0.8742	0.8784	0.8718	0.8731	0.8742	0.8738	0.8708
KEEL ecoli-0-6-7_vs_3-5	0.8345	0.8502	0.8496	0.8544	0.8557	0.8517	0.8585	0.8503	0.8554	0.8508
KEEL ecoli-0-6-7_vs_5	0.8849	0.8943	0.8983	0.8964	0.9031	0.8974	0.8969	0.8930	0.8926	0.8916
KEEL ecoli-0_vs_1	0.9722	0.9744	0.9751	0.9751	0.9751	0.9751	0.9751	0.9751	0.9751	0.9751
KEEL ecoli1	0.8964	0.8998	0.8940	0.8958	0.8955	0.8860	0.8898	0.8894	0.8898	0.8937
KEEL ecoli2	0.8752	0.8767	0.8780	0.8804	0.8785	0.8829	0.8808	0.8802	0.8826	0.8814
KEEL ecoli3	0.8694	0.8799	0.8791	0.8784	0.8786	0.8796	0.8791	0.8783	0.8756	0.8791
KEEL ecoli4	0.8506	0.8703	0.8777	0.8733	0.8798	0.8901	0.9016	0.8887	0.8893	0.8894
KEEL glass-0-1-2-3_vs_4-5	0.9076	0.9129	0.9116	0.9071	0.9072	0.9059	0.9059	0.9066	0.9086	0.9091
KEEL glass-0-1-4-6_vs_2	0.5917	0.6322	0.6027	0.5826	0.6018	0.6059	0.5954	0.5967	0.6038	0.5885
KEEL glass-0-1-5_vs_2	0.5779	0.5892	0.5664	0.5626	0.5800	0.5488	0.5572	0.5553	0.5543	0.5806
KEEL glass-0-1-6_vs_2	0.4405	0.5513	0.5337	0.5266	0.5409	0.5588	0.5711	0.5633	0.5812	0.5732
KEEL glass-0-1-6_vs_5	0.9385	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939
KEEL glass-0-6_vs_5	0.9277	0.9218	0.9282	0.9219	0.9197	0.9218	0.9207	0.9164	0.9175	0.9186
KEEL glass0	0.7899	0.7850	0.7944	0.7939	0.7910	0.7952	0.7939	0.7883	0.7906	0.7891
KEEL glass1	0.7170	0.7278	0.7269	0.7357	0.7296	0.7386	0.7397	0.7415	0.7436	0.7457
KEEL glass2	0.5747	0.5832	0.5780	0.5949	0.6027	0.6058	0.5983	0.5961	0.6041	0.5851
KEEL glass4	0.8603	0.8424	0.8406	0.8400	0.8319	0.8430	0.8306	0.8316	0.8302	0.8300
KEEL glass5	0.9182	0.9277	0.9267	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473
KEEL glass6	0.8957	0.9067	0.9038	0.9021	0.9052	0.9011	0.9021	0.9006	0.9047	0.9052
KEEL haberman	0.6350	0.6439	0.6403	0.6395	0.6430	0.6462	0.6437	0.6456	0.6483	0.6521
KEEL iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8709	0.8769	0.8760	0.8781	0.8778	0.8755	0.8710	0.8706	0.8748	0.8782
KEEL new-thyroid1	0.9305	0.9303	0.9321	0.9294	0.9398	0.9420	0.9415	0.9394	0.9394	0.9416
KEEL new-thyroid2	0.9447	0.9392	0.9476	0.9449	0.9496	0.9473	0.9446	0.9485	0.9518	0.9508
KEEL page-blocks-1-3_vs_4	0.9346	0.9297	0.9304	0.9302	0.9312	0.9309	0.9302	0.9314	0.9312	0.9316
KEEL pima	0.7380	0.7404	0.7417	0.7419	0.7435	0.7405	0.7421	0.7432	0.7422	0.7454
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.8386	0.8808	0.8394	0.8394	0.8577	0.8816	0.8816	0.8816	0.8816	0.8816
KEEL vehicle0	0.9380	0.9392	0.9390	0.9413	0.9422	0.9430	0.9421	0.9418	0.9429	0.9434
KEEL vehicle1	0.7522	0.7568	0.7596	0.7589	0.7621	0.7623	0.7632	0.7649	0.7647	0.7628
KEEL vehicle2	0.9541	0.9570	0.9613	0.9612	0.9617	0.9622	0.9605	0.9593	0.9593	0.9591
KEEL vehicle3	0.7279	0.7390	0.7506	0.7489	0.7507	0.7548	0.7510	0.7478	0.7510	0.7490
KEEL vowel0	0.9621	0.9545	0.9551	0.9545	0.9539	0.9544	0.9542	0.9539	0.9549	0.9542
KEEL wisconsin	0.9614	0.9616	0.9649	0.9624	0.9615	0.9637	0.9639	0.9635	0.9635	0.9646
KEEL yeast-0-2-5-6_vs_3-7	0.7952	0.7953	0.7932	0.7966	0.7986	0.7974	0.7957	0.7969	0.7995	0.7954
KEEL yeast-0-2-5-7-9_vs_3	0.9048	0.9090	0.9092	0.9056	0.9067	0.9072	0.9079	0.9083	0.9068	0.9084
KEEL yeast-0-3-5-9_vs_7-8	0.6623	0.6809	0.6855	0.6917	0.6914	0.6926	0.6862	0.6883	0.6873	0.6860
KEEL yeast-0-5-6-7-9_vs_4	0.7779	0.7731	0.7785	0.7784	0.7857	0.7855	0.7803	0.7864	0.7871	0.7904
KEEL yeast-1-2-8-9_vs_7	0.6586	0.6749	0.6684	0.6699	0.6744	0.6663	0.6599	0.6664	0.6643	0.6632
KEEL yeast-1-4-5-8_vs_7	0.5942	0.6329	0.6199	0.6154	0.6096	0.6227	0.6181	0.6207	0.6253	0.6184
KEEL yeast-1_vs_7	0.6772	0.6973	0.6989	0.7452	0.7394	0.7450	0.7292	0.7293	0.7320	0.7222
KEEL yeast-2_vs_4	0.9074	0.9103	0.9161	0.9136	0.9157	0.9165	0.9158	0.9183	0.9188	0.9184
KEEL yeast-2_vs_8	0.7104	0.7139	0.7188	0.7200	0.7162	0.7181	0.7244	0.7252	0.7227	0.7241
KEEL yeast1	0.7044	0.7160	0.7182	0.7171	0.7225	0.7221	0.7202	0.7203	0.7215	0.7217
KEEL yeast3	0.9300	0.9299	0.9318	0.9320	0.9313	0.9304	0.9318	0.9324	0.9318	0.9306
KEEL yeast4	0.8294	0.8248	0.8335	0.8393	0.8451	0.8465	0.8460	0.8429	0.8477	0.8467
KEEL yeast5	0.9584	0.9620	0.9629	0.9585	0.9595	0.9598	0.9594	0.9571	0.9568	0.9597
KEEL yeast6	0.8661	0.8759	0.8788	0.8784	0.8760	0.8740	0.8805	0.8766	0.8800	0.8771

Table 67: G-mean for RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6729	0.6844	0.6842	0.6831	0.6805	0.6784	0.6732	0.6675	0.6631	0.6607
HDDT boundary	0.6229	0.6270	0.6292	0.6175	0.6045	0.5817	0.5960	0.5937	0.5856	0.5793
HDDT breast-y	0.5964	0.6160	0.6064	0.5946	0.5947	0.6015	0.5921	0.5859	0.5955	0.5933
HDDT cam	0.6948	0.7080	0.7136	0.7156	0.7174	0.7207	0.7208	0.7217	0.7184	0.7208
HDDT compustat	0.7842	0.7812	0.7824	0.7835	0.7823	0.7780	0.7824	0.7781	0.7765	0.7809
HDDT covtype	0.9535	0.9567	0.9580	0.9577	0.9585	0.9590	0.9590	0.9592	0.9594	0.9600
HDDT credit-g	0.6844	0.6857	0.6693	0.6635	0.6585	0.6568	0.6534	0.6499	0.6435	0.6389
HDDT estate	0.5907	0.5944	0.5977	0.5980	0.5965	0.5950	0.5969	0.5982	0.5982	0.5976
HDDT german-numer	0.6935	0.6884	0.6818	0.6733	0.6725	0.6659	0.6644	0.6594	0.6573	0.6553
HDDT heart-v	0.5843	0.6049	0.6012	0.5911	0.5963	0.5894	0.5843	0.5765	0.5764	0.5775
HDDT hypo	0.9604	0.9631	0.9611	0.9620	0.9626	0.9641	0.9632	0.9639	0.9609	0.9628
HDDT ism	0.8892	0.8923	0.8938	0.8903	0.8929	0.8902	0.8917	0.8904	0.8900	0.8907
HDDT letter	0.9840	0.9858	0.9874	0.9878	0.9896	0.9892	0.9897	0.9901	0.9896	0.9905
HDDT oil	0.8001	0.8211	0.8073	0.8130	0.8158	0.8080	0.7944	0.7986	0.7886	0.7790
HDDT optdigits	0.9929	0.9940	0.9941	0.9945	0.9949	0.9941	0.9952	0.9948	0.9958	0.9952
HDDT page	0.9528	0.9558	0.9554	0.9560	0.9579	0.9568	0.9579	0.9587	0.9543	0.9568
HDDT pendigits	0.9877	0.9904	0.9914	0.9922	0.9922	0.9923	0.9924	0.9927	0.9932	0.9929
HDDT phoneme	0.8553	0.8597	0.8589	0.8652	0.8649	0.8663	0.8658	0.8672	0.8676	0.8679
HDDT satimage	0.8605	0.8671	0.8681	0.8696	0.8672	0.8666	0.8631	0.8638	0.8619	0.8599
HDDT segment	0.9911	0.9930	0.9925	0.9942	0.9936	0.9946	0.9928	0.9939	0.9937	0.9944
KEEL abalone19	0.7025	0.7261	0.7186	0.6680	0.6451	0.6546	0.6105	0.6246	0.6084	0.5800
KEEL abalone9-18	0.6979	0.6887	0.6846	0.6709	0.6717	0.6798	0.6597	0.6592	0.6458	0.6250
KEEL cleveland-0_vs_4	0.7963	0.8004	0.7923	0.8157	0.7845	0.7833	0.7891	0.7684	0.7783	0.7890
KEEL ecoli-0-1-3-7_vs_2-6	0.8079	0.8258	0.7783	0.8120	0.7650	0.7617	0.7409	0.7681	0.7404	0.7142
KEEL ecoli-0-1-4-6_vs_5	0.8844	0.8818	0.8935	0.8984	0.8996	0.8810	0.8879	0.8925	0.8684	0.8579
KEEL ecoli-0-1-4-7_vs_2-3	0.8523	0.8601	0.8599	0.8579	0.8400	0.8624	0.8592	0.8531	0.8650	0.8502
KEEL ecoli-0-1-4-7_vs_5-6	0.8511	0.8566	0.8604	0.8445	0.8317	0.8551	0.8478	0.8604	0.8474	0.8378
KEEL ecoli-0-1_vs-2-3-5	0.8629	0.8725	0.8782	0.8456	0.8492	0.8585	0.8548	0.8533	0.8518	0.8540
KEEL ecoli-0-1_vs_5	0.8559	0.8952	0.8821	0.8807	0.8796	0.8671	0.8832	0.8719	0.8731	0.8607
KEEL ecoli-0-2-3-4_vs_5	0.8882	0.9019	0.9020	0.8847	0.8951	0.8896	0.8823	0.8907	0.8960	0.8913
KEEL ecoli-0-2-6-7_vs_3-5	0.8559	0.8708	0.8517	0.8593	0.8500	0.8548	0.8547	0.8587	0.8551	0.8551
KEEL ecoli-0-3-4-6_vs_5	0.8628	0.8732	0.8822	0.8789	0.8773	0.8544	0.8558	0.8741	0.8644	0.8668
KEEL ecoli-0-3-4-7_vs_5-6	0.8607	0.8830	0.8814	0.8760	0.8829	0.8787	0.8778	0.8880	0.8854	0.8810
KEEL ecoli-0-3-4_vs_5	0.8613	0.8614	0.8778	0.8842	0.8738	0.8536	0.8559	0.8630	0.8650	0.8527
KEEL ecoli-0-4-6_vs_5	0.8680	0.8901	0.8823	0.8835	0.8735	0.8747	0.8635	0.8679	0.8548	0.8312
KEEL ecoli-0-6-7_vs_3-5	0.8521	0.8417	0.8327	0.8429	0.8407	0.8261	0.8253	0.8312	0.8284	0.8358
KEEL ecoli-0-6-7_vs_5	0.8896	0.8958	0.8938	0.8909	0.8913	0.8966	0.8893	0.8946	0.8911	0.8906
KEEL ecoli-0_vs_1	0.9750	0.9764	0.9764	0.9779	0.9771	0.9771	0.9771	0.9764	0.9764	0.9771
KEEL ecoli1	0.8885	0.8774	0.8746	0.8758	0.8681	0.8653	0.8553	0.8638	0.8727	0.8640
KEEL ecoli2	0.8848	0.8858	0.8858	0.8855	0.8910	0.8950	0.8865	0.8874	0.8893	0.8878
KEEL ecoli3	0.8550	0.8099	0.8328	0.8173	0.8088	0.8100	0.8072	0.8055	0.8034	0.7980
KEEL ecoli4	0.8796	0.8918	0.9134	0.9051	0.8945	0.9076	0.9145	0.9015	0.8981	0.9046
KEEL glass-0-1-2-3_vs_4-5	0.9165	0.9140	0.9020	0.8922	0.9032	0.8959	0.8950	0.9001	0.8993	0.8960
KEEL glass-0-1-4-6_vs_2	0.5699	0.5586	0.5125	0.5074	0.4998	0.4762	0.4276	0.5088	0.5141	0.4813
KEEL glass-0-1-5_vs_2	0.5876	0.5720	0.5698	0.5153	0.5436	0.5143	0.4994	0.4878	0.4275	0.4481
KEEL glass-0-1-6_vs_2	0.5322	0.5389	0.4940	0.4790	0.4904	0.5005	0.4106	0.4022	0.4536	0.4410
KEEL glass-0-1-6_vs_5	0.9468	0.9563	0.9707	0.9673	0.9701	0.9394	0.9408	0.9182	0.9669	0.9325
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9700	0.9728	0.9728	0.9594	0.9700	0.9594	0.9728	0.9594
KEEL glass-0-6_vs_5	0.9247	0.8605	0.9328	0.8477	0.9181	0.8934	0.8819	0.9035	0.9035	0.9300
KEEL glass0	0.8056	0.8007	0.8024	0.8048	0.8020	0.7975	0.7931	0.7990	0.7883	0.8094
KEEL glass1	0.7247	0.7434	0.7482	0.7567	0.7620	0.7640	0.7716	0.7680	0.7575	0.7702
KEEL glass2	0.6526	0.5949	0.5856	0.5347	0.4832	0.5022	0.4718	0.5159	0.4865	0.4614
KEEL glass4	0.8301	0.8128	0.7860	0.8099	0.7687	0.7502	0.7708	0.7440	0.7399	0.7432
KEEL glass5	0.9513	0.9533	0.9535	0.9653	0.9626	0.9764	0.9554	0.9445	0.9541	0.9433
KEEL glass6	0.9104	0.9186	0.9199	0.9048	0.9095	0.9116	0.9087	0.9121	0.9083	0.9136
KEEL haberman	0.6480	0.6460	0.6497	0.6423	0.6458	0.6459	0.6495	0.6512	0.6526	0.6531
KEEL iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8748	0.8778	0.8794	0.8871	0.8827	0.8778	0.8768	0.8871	0.8714	0.8780
KEEL new-thyroid1	0.9416	0.9497	0.9588	0.9547	0.9497	0.9495	0.9587	0.9503	0.9487	0.9534
KEEL new-thyroid2	0.9597	0.9590	0.9750	0.9650	0.9608	0.9584	0.9661	0.9575	0.9621	0.9554
KEEL page-blocks-1-3_vs_4	0.9740	0.9893	0.9905	0.9900	0.9902	0.9883	0.9964	0.9880	0.9916	0.9921
KEEL pima	0.7249	0.7168	0.7224	0.7194	0.7210	0.7129	0.7123	0.7196	0.7118	0.7094
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027
KEEL vehicle0	0.9447	0.9525	0.9535	0.9567	0.9564	0.9599	0.9597	0.9604	0.9601	0.9596
KEEL vehicle1	0.7456	0.7424	0.7443	0.7320	0.7344	0.7270	0.7229	0.7239	0.7166	0.7117
KEEL vehicle2	0.9696	0.9727	0.9771	0.9768	0.9765	0.9777	0.9782	0.9773	0.9779	0.9795
KEEL vehicle3	0.7329	0.7287	0.7319	0.7228	0.7161	0.7129	0.7122	0.7019	0.7084	0.7070
KEEL vowel0	0.9603	0.9685	0.9781	0.9842	0.9785	0.9808	0.9783	0.9845	0.9793	0.9748
KEEL wisconsin	0.9635	0.9651	0.9640	0.9654	0.9657	0.9623	0.9617	0.9630	0.9624	0.9630
KEEL yeast-0-2-5-6_vs_3-7	0.7871	0.7881	0.7900	0.7925	0.7949	0.7813	0.7785	0.7854	0.7782	0.7827
KEEL yeast-0-2-5-7-9_vs_3	0.9025	0.9049	0.9044	0.9013	0.9005	0.9028	0.9029	0.9002	0.9000	0.8980
KEEL yeast-0-3-5-9_vs_7-8	0.6744	0.6830	0.6665	0.6703	0.6563	0.6591	0.6611	0.6703	0.6618	0.6572
KEEL yeast-0-5-6-7-9_vs_4	0.7888	0.7818	0.7828	0.7701	0.7816	0.7699	0.7514	0.7589	0.7355	0.7540
KEEL yeast-1-2-8-9_vs_7	0.6956	0.6960	0.6851	0.6838	0.6638	0.6860	0.6679	0.6543	0.6480	0.6592
KEEL yeast-1-4-5-8_vs_7	0.6203	0.6307	0.6155	0.6081	0.5885	0.6158	0.5886	0.6256	0.6148	0.6075
KEEL yeast-1_vs_7	0.7496	0.7472	0.7537	0.7448	0.7308	0.7115	0.7169	0.7069	0.7204	0.7079
KEEL yeast-2_vs_4	0.9203	0.9098	0.9070	0.8896	0.8969	0.8835	0.8793	0.8735	0.8731	0.8756
KEEL yeast-2_vs_8	0.7045	0.7108	0.7167	0.7233	0.7233	0.7233	0.7196	0.7208	0.7087	0.7223
KEEL yeast1	0.7072	0.7138	0.7106	0.7069	0.7102	0.7107	0.7096	0.7086	0.7081	0.7084
KEEL yeast3	0.9238	0.9173	0.9186	0.9203	0.9184	0.9171	0.9169	0.9093	0.9143	0.9105
KEEL yeast4	0.8446	0.8447	0.8248	0.8153	0.8291	0.8256	0.8291	0.8126	0.8084	0.8108
KEEL yeast5	0.9536	0.9533	0.9458	0.9393	0.9406	0.9394	0.9432	0.9335	0.9379	0.9391
KEEL yeast6	0.8523	0.8548	0.8469	0.8387	0.8408	0.8404	0.8209	0.8290	0.8339	0.8380

Table 68: G-mean for E-RUS ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6702	0.6815	0.6883	0.6908	0.6945	0.6947	0.6951	0.6969	0.6969	0.6961
HDDT boundary	0.6202	0.6437	0.6436	0.6477	0.6448	0.6435	0.6475	0.6447	0.6476	0.6470
HDDT breast-y	0.5971	0.6068	0.6035	0.6083	0.6069	0.6035	0.6060	0.6073	0.6041	0.6081
HDDT cam	0.6863	0.6952	0.6967	0.6966	0.6966	0.7006	0.6999	0.7001	0.7000	0.7025
HDDT compustat	0.7972	0.8009	0.7997	0.8027	0.8031	0.8051	0.8043	0.8051	0.8051	0.8043
HDDT covtype	0.9473	0.9487	0.9497	0.9498	0.9496	0.9497	0.9499	0.9502	0.9505	0.9505
HDDT credit-g	0.6715	0.6710	0.6702	0.6710	0.6670	0.6703	0.6726	0.6738	0.6739	0.6746
HDDT estate	0.5975	0.5938	0.5991	0.5999	0.6032	0.6029	0.6031	0.6046	0.6060	0.6068
HDDT german-numer	0.6965	0.6988	0.7032	0.7021	0.7042	0.7016	0.7038	0.7020	0.7024	0.7019
HDDT heart-v	0.6019	0.6037	0.6186	0.6145	0.6147	0.6106	0.6119	0.6183	0.6142	0.6190
HDDT hypo	0.9623	0.9623	0.9616	0.9627	0.9620	0.9615	0.9622	0.9622	0.9615	0.9620
HDDT ism	0.8848	0.8858	0.8883	0.8886	0.8881	0.8896	0.8881	0.8879	0.8892	0.8895
HDDT letter	0.9772	0.9780	0.9784	0.9794	0.9797	0.9795	0.9795	0.9790	0.9794	0.9797
HDDT oil	0.8082	0.8061	0.8093	0.8118	0.8061	0.8102	0.8076	0.8162	0.8154	0.8146
HDDT optdigits	0.9863	0.9868	0.9866	0.9868	0.9867	0.9869	0.9871	0.9870	0.9870	0.9874
HDDT page	0.9525	0.9536	0.9544	0.9549	0.9553	0.9541	0.9545	0.9545	0.9545	0.9549
HDDT pendigits	0.9808	0.9804	0.9815	0.9809	0.9808	0.9814	0.9815	0.9815	0.9816	0.9813
HDDT phoneme	0.8445	0.8469	0.8463	0.8476	0.8479	0.8492	0.8480	0.8489	0.8491	0.8495
HDDT satimage	0.8628	0.8676	0.8703	0.8715	0.8718	0.8701	0.8715	0.8710	0.8717	0.8726
HDDT segment	0.9819	0.9816	0.9819	0.9820	0.9820	0.9821	0.9822	0.9823	0.9825	0.9825
KEEL abalone19	0.6763	0.6782	0.6665	0.6696	0.6804	0.6762	0.6843	0.6845	0.6829	0.6893
KEEL abalone9-18	0.6792	0.6804	0.6975	0.6915	0.6914	0.6905	0.6944	0.6944	0.6892	0.6956
KEEL cleveland-0_vs_4	0.7900	0.7702	0.7893	0.7819	0.7794	0.7770	0.7761	0.7777	0.7777	0.7775
KEEL ecoli-0-1-3-7_vs_2-6	0.7796	0.7740	0.8008	0.7945	0.8082	0.8068	0.8024	0.8069	0.8036	0.8042
KEEL ecoli-0-1-4-6_vs_5	0.8260	0.8426	0.8425	0.8413	0.8459	0.8468	0.8505	0.8503	0.8492	0.8499
KEEL ecoli-0-1-4-7_vs_2-3	0.8114	0.8301	0.8249	0.8264	0.8193	0.8227	0.8238	0.8215	0.8221	0.8227
KEEL ecoli-0-1-4-7_vs_5-6	0.8239	0.8357	0.8354	0.8414	0.8392	0.8361	0.8390	0.8403	0.8403	0.8400
KEEL ecoli-0-1_vs-2-3-5	0.8617	0.8687	0.8673	0.8605	0.8609	0.8628	0.8563	0.8547	0.8543	0.8547
KEEL ecoli-0-1_vs_5	0.8373	0.8408	0.8400	0.8381	0.8459	0.8464	0.8402	0.8407	0.8425	0.8462
KEEL ecoli-0-2-3-4_vs_5	0.8542	0.8672	0.8640	0.8564	0.8682	0.8660	0.8642	0.8684	0.8683	0.8683
KEEL ecoli-0-2-6-7_vs_3-5	0.8391	0.8513	0.8595	0.8537	0.8535	0.8530	0.8470	0.8456	0.8455	0.8470
KEEL ecoli-0-3-4-6_vs_5	0.8334	0.8340	0.8359	0.8410	0.8425	0.8432	0.8415	0.8387	0.8399	0.8426
KEEL ecoli-0-3-4-7_vs_5-6	0.8213	0.8207	0.8212	0.8402	0.8341	0.8333	0.8334	0.8378	0.8364	0.8327
KEEL ecoli-0-3-4_vs_5	0.8347	0.8344	0.8419	0.8401	0.8413	0.8371	0.8457	0.8400	0.8385	0.8385
KEEL ecoli-0-4-6_vs_5	0.8194	0.8330	0.8338	0.8393	0.8329	0.8378	0.8372	0.8378	0.8432	0.8432
KEEL ecoli-0-6-7_vs_3-5	0.8495	0.8560	0.8521	0.8539	0.8503	0.8480	0.8513	0.8522	0.8532	0.8501
KEEL ecoli-0-6-7_vs_5	0.8852	0.8909	0.8880	0.8900	0.8905	0.8890	0.8938	0.8938	0.8874	0.8943
KEEL ecoli-0_vs_1	0.9703	0.9683	0.9714	0.9713	0.9756	0.9740	0.9717	0.9725	0.9691	0.9691
KEEL ecoli1	0.8930	0.8994	0.8953	0.8970	0.8963	0.8942	0.8946	0.8954	0.8962	0.8979
KEEL ecoli2	0.8771	0.8758	0.8709	0.8750	0.8768	0.8748	0.8732	0.8732	0.8736	0.8726
KEEL ecoli3	0.8646	0.8657	0.8734	0.8745	0.8749	0.8765	0.8754	0.8762	0.8776	0.8745
KEEL ecoli4	0.8617	0.8573	0.8704	0.8741	0.8740	0.8753	0.8756	0.8740	0.8747	0.8753
KEEL glass-0-1-2-3_vs_4-5	0.9093	0.9087	0.9067	0.9086	0.9086	0.9085	0.9085	0.9087	0.9068	0.9067
KEEL glass-0-1-4-6_vs_2	0.6289	0.6353	0.6456	0.6321	0.6339	0.6401	0.6388	0.6371	0.6378	0.6347
KEEL glass-0-1-5_vs_2	0.6181	0.5942	0.5803	0.5889	0.6163	0.6164	0.5992	0.5953	0.5944	0.5980
KEEL glass-0-1-6_vs_2	0.5483	0.5827	0.5869	0.5966	0.5762	0.5815	0.5863	0.5911	0.6036	0.5863
KEEL glass-0-1-6_vs_5	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410	0.9410
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939
KEEL glass-0-6_vs_5	0.9100	0.9132	0.9185	0.9195	0.9175	0.9142	0.9132	0.9121	0.9152	0.9142
KEEL glass0	0.7617	0.7752	0.7760	0.7788	0.7771	0.7820	0.7792	0.7774	0.7799	0.7804
KEEL glass1	0.7048	0.7067	0.7189	0.7103	0.7148	0.7157	0.7206	0.7207	0.7205	0.7268
KEEL glass2	0.6355	0.6399	0.6600	0.6334	0.6264	0.6215	0.6262	0.6462	0.6322	0.6357
KEEL glass4	0.8225	0.8230	0.8197	0.8225	0.8259	0.8256	0.8434	0.8445	0.8253	0.8244
KEEL glass5	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473	0.9473
KEEL glass6	0.8934	0.8903	0.8938	0.8944	0.8944	0.8938	0.8960	0.8966	0.8965	0.8976
KEEL haberman	0.6458	0.6393	0.6419	0.6398	0.6424	0.6423	0.6441	0.6441	0.6427	0.6400
KEEL iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8623	0.8572	0.8616	0.8624	0.8637	0.8630	0.8643	0.8648	0.8649	0.8658
KEEL new-thyroid1	0.9434	0.9274	0.9352	0.9330	0.9319	0.9312	0.9335	0.9318	0.9301	0.9324
KEEL new-thyroid2	0.9484	0.9533	0.9423	0.9461	0.9393	0.9364	0.9367	0.9350	0.9344	0.9401
KEEL page-blocks-1-3_vs_4	0.9255	0.9269	0.9209	0.9229	0.9242	0.9242	0.9247	0.9242	0.9237	0.9230
KEEL pima	0.7272	0.7274	0.7289	0.7287	0.7340	0.7362	0.7349	0.7349	0.7333	0.7323
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.9816	0.8816	0.8577	0.8816	0.8577	0.8577	0.8577	0.8577	0.8394	0.8577
KEEL vehicle0	0.9356	0.9391	0.9405	0.9409	0.9414	0.9427	0.9424	0.9430	0.9435	0.9432
KEEL vehicle1	0.7704	0.7768	0.7782	0.7790	0.7778	0.7785	0.7798	0.7797	0.7805	0.7787
KEEL vehicle2	0.9554	0.9576	0.9598	0.9589	0.9604	0.9599	0.9603	0.9609	0.9611	0.9614
KEEL vehicle3	0.7532	0.7585	0.7643	0.7628	0.7650	0.7660	0.7664	0.7675	0.7682	0.7678
KEEL vowel0	0.9562	0.9576	0.9528	0.9512	0.9518	0.9523	0.9523	0.9517	0.9501	0.9512
KEEL wisconsin	0.9615	0.9604	0.9610	0.9616	0.9612	0.9616	0.9612	0.9601	0.9616	0.9624
KEEL yeast-0-2-5-6_vs_3-7	0.8010	0.8002	0.7972	0.7961	0.7979	0.7985	0.7987	0.7984	0.7998	0.8012
KEEL yeast-0-2-5-7-9_vs_3	0.9051	0.9049	0.9094	0.9097	0.9104	0.9106	0.9068	0.9059	0.9074	0.9084
KEEL yeast-0-3-5-9_vs_7-8	0.6974	0.6975	0.6903	0.6932	0.6971	0.7024	0.6996	0.7010	0.6970	0.6968
KEEL yeast-0-5-6-7-9_vs_4	0.7812	0.7959	0.8000	0.7970	0.8001	0.7961	0.7977	0.7956	0.7994	0.7945
KEEL yeast-1-2-8-9_vs_7	0.6771	0.6939	0.6959	0.6996	0.6972	0.6961	0.6971	0.6945	0.6898	0.6949
KEEL yeast-1-4-5-8_vs_7	0.6117	0.6199	0.6187	0.6223	0.6214	0.6169	0.6229	0.6226	0.6209	0.6231
KEEL yeast-1_vs_7	0.7122	0.7324	0.7202	0.7200	0.7205	0.7208	0.7194	0.7197	0.7205	0.7234
KEEL yeast-2_vs_4	0.9348	0.9303	0.9299	0.9312	0.9319	0.9310	0.9303	0.9310	0.9316	0.9300
KEEL yeast-2_vs_8	0.7173	0.6998	0.6897	0.6917	0.6941	0.6935	0.6949	0.6852	0.6837	0.6936
KEEL yeast1	0.7037	0.7087	0.7082	0.7075	0.7100	0.7104	0.7098	0.7106	0.7090	0.7092
KEEL yeast3	0.9298	0.9297	0.9305	0.9310	0.9306	0.9303	0.9297	0.9301	0.9305	0.9310
KEEL yeast4	0.8461	0.8493	0.8453	0.8461	0.8445	0.8424	0.8440	0.8431	0.8440	0.8450
KEEL yeast5	0.9500	0.9511	0.9572	0.9554	0.9557	0.9557	0.9561	0.9565	0.9565	0.9594
KEEL yeast6	0.8548	0.8591	0.8625	0.8569	0.8589	0.8597	0.8602	0.8628	0.8600	0.8598

Table 69: G-mean for E-RB ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.3684	0.3744	0.3512	0.3545	0.3553	0.3515	0.3525	0.3486	0.3495	0.3466
HDDT boundary	0.3409	0.3443	0.3475	0.3506	0.3507	0.3555	0.3601	0.3522	0.3529	0.3541
HDDT breast-y	0.5646	0.5778	0.5856	0.5739	0.5728	0.5778	0.5734	0.5761	0.5797	0.5820
HDDT cam	0.3735	0.3629	0.3651	0.3647	0.3667	0.3674	0.3702	0.3736	0.3729	0.3726
HDDT compustat	0.7747	0.7791	0.7840	0.7844	0.7859	0.7929	0.7926	0.7939	0.7924	0.7954
HDDT covtype	0.9538	0.9556	0.9571	0.9571	0.9575	0.9575	0.9578	0.9579	0.9574	0.9575
HDDT credit-g	0.6679	0.6692	0.6765	0.6740	0.6665	0.6757	0.6708	0.6731	0.6769	0.6725
HDDT estate	0.5166	0.5286	0.5291	0.5276	0.5238	0.5213	0.5301	0.5342	0.5386	0.5366
HDDT german-numer	0.6625	0.6847	0.6921	0.6976	0.6960	0.6968	0.6963	0.6941	0.6957	0.6959
HDDT heart-v	0.5899	0.5624	0.5838	0.5904	0.5822	0.5997	0.5856	0.5987	0.5994	0.5863
HDDT hypo	0.9627	0.9636	0.9608	0.9597	0.9606	0.9613	0.9619	0.9619	0.9613	0.9612
HDDT ism	0.8849	0.8843	0.8856	0.8867	0.8882	0.8875	0.8877	0.8881	0.8878	0.8873
HDDT letter	0.9745	0.9753	0.9752	0.9748	0.9758	0.9766	0.9759	0.9758	0.9763	0.9750
HDDT oil	0.7584	0.7720	0.7631	0.7765	0.7712	0.7668	0.7699	0.7710	0.7706	0.7768
HDDT optdigits	0.9900	0.9893	0.9896	0.9899	0.9897	0.9903	0.9904	0.9902	0.9900	0.9901
HDDT page	0.9536	0.9583	0.9601	0.9582	0.9576	0.9574	0.9562	0.9560	0.9570	0.9569
HDDT pendigits	0.9846	0.9857	0.9860	0.9864	0.9863	0.9861	0.9866	0.9865	0.9862	0.9860
HDDT phoneme	0.8421	0.8532	0.8571	0.8566	0.8596	0.8607	0.8608	0.8612	0.8623	0.8624
HDDT satimage	0.8485	0.8505	0.8502	0.8532	0.8523	0.8517	0.8514	0.8523	0.8498	0.8502
HDDT segment	0.9856	0.9871	0.9876	0.9875	0.9875	0.9871	0.9875	0.9874	0.9874	0.9874
KEEL abalone19	0.4889	0.4446	0.4470	0.4550	0.4607	0.4724	0.4667	0.4599	0.4599	0.4656
KEEL abalone9-18	0.6440	0.6394	0.6362	0.6396	0.6315	0.6413	0.6356	0.6356	0.6359	0.6351
KEEL cleveland-0_vs_4	0.6558	0.7142	0.6857	0.7154	0.7167	0.7260	0.7264	0.7246	0.7249	0.7240
KEEL ecoli-0-1-3-7_vs_2-6	0.7755	0.8117	0.8256	0.8252	0.8252	0.8252	0.8252	0.8252	0.8252	0.8252
KEEL ecoli-0-1-4-6_vs_5	0.8472	0.8453	0.8476	0.8537	0.8487	0.8490	0.8493	0.8443	0.8442	0.8449
KEEL ecoli-0-1-4-7_vs_2-3	0.8366	0.8370	0.8287	0.8338	0.8347	0.8331	0.8335	0.8341	0.8351	0.8351
KEEL ecoli-0-1-4-7_vs_5-6	0.8224	0.8486	0.8547	0.8484	0.8588	0.8541	0.8642	0.8589	0.8634	0.8640
KEEL ecoli-0-1_vs_2-3-5	0.8564	0.8646	0.8632	0.8625	0.8713	0.8744	0.8778	0.8768	0.8779	0.8773
KEEL ecoli-0-1_vs_5	0.8279	0.8231	0.8280	0.8337	0.8325	0.8320	0.8263	0.8263	0.8267	0.8272
KEEL ecoli-0-2-3-4_vs_5	0.8772	0.8701	0.8724	0.8709	0.8703	0.8693	0.8688	0.8693	0.8693	0.8693
KEEL ecoli-0-2-6-7_vs_3-5	0.8617	0.8573	0.8548	0.8566	0.8552	0.8553	0.8558	0.8562	0.8567	0.8576
KEEL ecoli-0-3-4-6_vs_5	0.8696	0.8607	0.8685	0.8674	0.8674	0.8685	0.8688	0.8644	0.8698	0.8650
KEEL ecoli-0-3-4-7_vs_5-6	0.8679	0.8808	0.8735	0.8745	0.8677	0.8605	0.8615	0.8581	0.8530	0.8613
KEEL ecoli-0-3-4_vs_5	0.8291	0.8363	0.8366	0.8375	0.8407	0.8397	0.8398	0.8447	0.8447	0.8452
KEEL ecoli-0-4-6_vs_5	0.8680	0.8679	0.8658	0.8675	0.8779	0.8774	0.8612	0.8732	0.8669	0.8817
KEEL ecoli-0-6-7_vs_3-5	0.8394	0.8478	0.8501	0.8510	0.8501	0.8514	0.8442	0.8442	0.8447	0.8452
KEEL ecoli-0-6-7_vs_5	0.9066	0.9043	0.9027	0.9047	0.9047	0.9033	0.9042	0.9037	0.9042	0.9037
KEEL ecoli-0_vs_1	0.9758	0.9772	0.9807	0.9807	0.9807	0.9814	0.9807	0.9807	0.9814	0.9814
KEEL ecoli1	0.8814	0.8796	0.8818	0.8892	0.8911	0.8861	0.8910	0.8891	0.8903	0.8934
KEEL ecoli2	0.8829	0.8875	0.8832	0.8830	0.8828	0.8846	0.8848	0.8763	0.8781	0.8781
KEEL ecoli3	0.8234	0.8538	0.8507	0.8446	0.8570	0.8523	0.8553	0.8539	0.8540	0.8541
KEEL ecoli4	0.8054	0.8116	0.8253	0.8197	0.8199	0.8194	0.8198	0.8199	0.8138	0.8132
KEEL glass-0-1-2-3_vs_4-5	0.9084	0.9143	0.9135	0.9123	0.9141	0.9147	0.9154	0.9135	0.9142	0.9155
KEEL glass-0-1-4-6_vs_2	0.5016	0.6138	0.5813	0.5798	0.5371	0.5359	0.5381	0.5237	0.5371	0.5485
KEEL glass-0-1-5_vs_2	0.5614	0.6188	0.6262	0.6348	0.6073	0.6249	0.6051	0.6109	0.5943	0.6071
KEEL glass-0-1-6_vs_2	0.5329	0.5195	0.5413	0.5361	0.5415	0.5478	0.5477	0.5725	0.5666	0.5803
KEEL glass-0-1-6_vs_5	0.9789	0.9873	0.9813	0.9813	0.9819	0.9819	0.9832	0.9825	0.9867	0.9867
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939	0.9939
KEEL glass-0-6_vs_5	0.9387	0.9451	0.9374	0.9482	0.9451	0.9472	0.9493	0.9482	0.9472	0.9451
KEEL glass0	0.7622	0.7850	0.7875	0.7946	0.8051	0.8016	0.8010	0.8019	0.7994	0.8038
KEEL glass1	0.6735	0.7062	0.7035	0.7062	0.7116	0.7128	0.7143	0.7210	0.7219	0.7197
KEEL glass2	0.5973	0.6271	0.6046	0.6239	0.6033	0.6091	0.6027	0.6058	0.6053	0.6037
KEEL glass4	0.8082	0.7603	0.7684	0.7527	0.7517	0.7459	0.7531	0.7453	0.7464	0.7457
KEEL glass5	0.9737	0.9797	0.9837	0.9792	0.9857	0.9837	0.9857	0.9842	0.9759	0.9759
KEEL glass6	0.9044	0.9075	0.9070	0.9081	0.9126	0.9131	0.9136	0.9131	0.9178	0.9136
KEEL haberman	0.5567	0.6407	0.6456	0.6522	0.6552	0.6543	0.6533	0.6597	0.6556	0.6528
KEEL iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8908	0.8999	0.8928	0.8969	0.8991	0.8991	0.8998	0.8937	0.8937	0.8935
KEEL new-thyroid1	0.9482	0.9449	0.9450	0.9461	0.9461	0.9477	0.9477	0.9477	0.9505	0.9472
KEEL new-thyroid2	0.9431	0.9400	0.9461	0.9497	0.9508	0.9527	0.9538	0.9544	0.9533	0.9552
KEEL page-blocks-1-3_vs_4	0.9826	0.9847	0.9849	0.9853	0.9853	0.9856	0.9853	0.9856	0.9856	0.9865
KEEL pima	0.7067	0.7277	0.7335	0.7341	0.7376	0.7414	0.7402	0.7402	0.7391	0.7433
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9323	0.9402	0.9367	0.9364	0.9374	0.9407	0.9413	0.9401	0.9377	0.9375
KEEL vehicle1	0.7038	0.7264	0.7399	0.7464	0.7521	0.7514	0.7614	0.7623	0.7603	0.7591
KEEL vehicle2	0.9510	0.9606	0.9610	0.9607	0.9614	0.9633	0.9637	0.9632	0.9632	0.9627
KEEL vehicle3	0.7246	0.7486	0.7513	0.7481	0.7572	0.7656	0.7664	0.7627	0.7660	0.7662
KEEL vowel0	0.9570	0.9534	0.9572	0.9600	0.9597	0.9598	0.9597	0.9598	0.9602	0.9613
KEEL wisconsin	0.9636	0.9640	0.9657	0.9657	0.9638	0.9642	0.9636	0.9653	0.9649	0.9640
KEEL yeast-0-2-5-6_vs_3-7	0.7691	0.7735	0.7706	0.7772	0.7720	0.7796	0.7783	0.7751	0.7737	0.7716
KEEL yeast-0-2-5-7-9_vs_3	0.8951	0.8970	0.8916	0.8999	0.8979	0.8989	0.8984	0.8965	0.8971	0.8985
KEEL yeast-0-3-5-9_vs_7-8	0.6191	0.6364	0.6365	0.6342	0.6611	0.6730	0.6712	0.6610	0.6617	0.6620
KEEL yeast-0-5-6-7-9_vs_4	0.7583	0.7684	0.7809	0.7860	0.7877	0.7803	0.7848	0.7846	0.7891	0.7891
KEEL yeast-1-2-8-9_vs_7	0.6143	0.6185	0.6132	0.6086	0.6253	0.6207	0.6206	0.6264	0.6371	0.6246
KEEL yeast-1-4-5-8_vs_7	0.5161	0.5286	0.5257	0.5431	0.5344	0.5443	0.5419	0.5465	0.5247	0.5391
KEEL yeast-1_vs_7	0.6736	0.6661	0.6812	0.6830	0.6936	0.6834	0.6824	0.6956	0.6838	0.6879
KEEL yeast-2_vs_4	0.9042	0.9036	0.9148	0.9116	0.9086	0.9172	0.9252	0.9225	0.9187	0.9208
KEEL yeast-2_vs_8	0.7206	0.7127	0.6987	0.6997	0.7040	0.7041	0.7029	0.7043	0.7099	0.7092
KEEL yeast1	0.6798	0.7011	0.7033	0.6968	0.7036	0.7061	0.7076	0.7058	0.7081	0.7082
KEEL yeast3	0.9272	0.9312	0.9321	0.9298	0.9296	0.9303	0.9309	0.9309	0.9316	0.9309
KEEL yeast4	0.8045	0.8100	0.8131	0.8160	0.8105	0.8116	0.8118	0.8096	0.8133	0.8109
KEEL yeast5	0.9384	0.9436	0.9411	0.9454	0.9454	0.9456	0.9433	0.9482	0.9433	0.9434
KEEL yeast6	0.8033	0.7984	0.7987	0.7954	0.7920	0.7921	0.7914	0.7899	0.7832	0.7870

Table 70: G-mean for RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6729	0.6844	0.6842	0.6831	0.6805	0.6784	0.6732	0.6675	0.6631	0.6607
HDDT boundary	0.6229	0.6270	0.6292	0.6175	0.6045	0.5817	0.5960	0.5937	0.5856	0.5793
HDDT breast-y	0.5964	0.6160	0.6064	0.5946	0.5947	0.6015	0.5921	0.5859	0.5955	0.5933
HDDT cam	0.6948	0.7080	0.7136	0.7156	0.7174	0.7207	0.7208	0.7217	0.7184	0.7208
HDDT compustat	0.7842	0.7812	0.7824	0.7835	0.7823	0.7780	0.7824	0.7781	0.7765	0.7809
HDDT covtype	0.9535	0.9567	0.9580	0.9577	0.9585	0.9590	0.9590	0.9592	0.9594	0.9600
HDDT credit-g	0.6844	0.6857	0.6693	0.6635	0.6585	0.6568	0.6534	0.6499	0.6435	0.6389
HDDT estate	0.5907	0.5944	0.5977	0.5980	0.5965	0.5950	0.5969	0.5982	0.5982	0.5976
HDDT german-numer	0.6935	0.6884	0.6818	0.6733	0.6725	0.6659	0.6644	0.6594	0.6573	0.6553
HDDT heart-v	0.5843	0.6049	0.6012	0.5911	0.5963	0.5894	0.5843	0.5765	0.5764	0.5775
HDDT hypo	0.9604	0.9631	0.9611	0.9620	0.9626	0.9641	0.9632	0.9639	0.9609	0.9628
HDDT ism	0.8892	0.8923	0.8938	0.8903	0.8929	0.8902	0.8917	0.8904	0.8900	0.8907
HDDT letter	0.9840	0.9858	0.9874	0.9878	0.9896	0.9892	0.9897	0.9901	0.9896	0.9905
HDDT oil	0.8001	0.8211	0.8073	0.8130	0.8158	0.8080	0.7944	0.7986	0.7886	0.7790
HDDT optdigits	0.9929	0.9940	0.9941	0.9945	0.9949	0.9941	0.9952	0.9948	0.9958	0.9952
HDDT page	0.9528	0.9558	0.9554	0.9560	0.9579	0.9568	0.9579	0.9587	0.9543	0.9568
HDDT pendigits	0.9877	0.9904	0.9914	0.9922	0.9922	0.9923	0.9924	0.9927	0.9932	0.9929
HDDT phoneme	0.8553	0.8597	0.8589	0.8652	0.8649	0.8663	0.8658	0.8672	0.8676	0.8679
HDDT satimage	0.8605	0.8671	0.8681	0.8696	0.8672	0.8666	0.8631	0.8638	0.8619	0.8599
HDDT segment	0.9911	0.9930	0.9925	0.9942	0.9936	0.9946	0.9928	0.9939	0.9937	0.9944
KEEL abalone19	0.7025	0.7261	0.7186	0.6680	0.6451	0.6546	0.6105	0.6246	0.6084	0.5800
KEEL abalone9-18	0.6979	0.6887	0.6846	0.6709	0.6717	0.6798	0.6597	0.6592	0.6458	0.6250
KEEL cleveland-0_vs_4	0.7963	0.8004	0.7923	0.8157	0.7845	0.7833	0.7891	0.7684	0.7783	0.7890
KEEL ecoli-0-1-3-7_vs_2-6	0.8079	0.8258	0.7783	0.8120	0.7650	0.7617	0.7409	0.7681	0.7404	0.7142
KEEL ecoli-0-1-4-6_vs_5	0.8844	0.8818	0.8935	0.8984	0.8996	0.8810	0.8879	0.8925	0.8684	0.8579
KEEL ecoli-0-1-4-7_vs_2-3	0.8523	0.8601	0.8599	0.8579	0.8400	0.8624	0.8592	0.8531	0.8650	0.8502
KEEL ecoli-0-1-4-7_vs_5-6	0.8511	0.8566	0.8604	0.8445	0.8317	0.8551	0.8478	0.8604	0.8474	0.8378
KEEL ecoli-0-1_vs-2-3-5	0.8629	0.8725	0.8782	0.8456	0.8492	0.8585	0.8548	0.8533	0.8518	0.8540
KEEL ecoli-0-1_vs_5	0.8559	0.8952	0.8821	0.8807	0.8796	0.8671	0.8832	0.8719	0.8731	0.8607
KEEL ecoli-0-2-3-4_vs_5	0.8882	0.9019	0.9020	0.8847	0.8951	0.8896	0.8823	0.8907	0.8960	0.8913
KEEL ecoli-0-2-6-7_vs_3-5	0.8559	0.8708	0.8517	0.8593	0.8500	0.8548	0.8547	0.8587	0.8551	0.8551
KEEL ecoli-0-3-4-6_vs_5	0.8628	0.8732	0.8822	0.8789	0.8773	0.8544	0.8558	0.8741	0.8644	0.8668
KEEL ecoli-0-3-4-7_vs_5-6	0.8607	0.8830	0.8814	0.8760	0.8829	0.8787	0.8778	0.8880	0.8854	0.8810
KEEL ecoli-0-3-4_vs_5	0.8613	0.8614	0.8778	0.8842	0.8738	0.8536	0.8559	0.8630	0.8650	0.8527
KEEL ecoli-0-4-6_vs_5	0.8680	0.8901	0.8823	0.8835	0.8735	0.8747	0.8635	0.8679	0.8548	0.8312
KEEL ecoli-0-6-7_vs_3-5	0.8521	0.8417	0.8327	0.8429	0.8407	0.8261	0.8253	0.8312	0.8284	0.8358
KEEL ecoli-0-6-7_vs_5	0.8896	0.8958	0.8938	0.8909	0.8913	0.8966	0.8893	0.8946	0.8911	0.8906
KEEL ecoli-0_vs_1	0.9750	0.9764	0.9764	0.9779	0.9771	0.9771	0.9771	0.9764	0.9764	0.9771
KEEL ecoli1	0.8885	0.8774	0.8746	0.8758	0.8681	0.8653	0.8553	0.8638	0.8727	0.8640
KEEL ecoli2	0.8848	0.8858	0.8858	0.8855	0.8910	0.8950	0.8865	0.8874	0.8893	0.8878
KEEL ecoli3	0.8550	0.8099	0.8328	0.8173	0.8088	0.8100	0.8072	0.8055	0.8034	0.7980
KEEL ecoli4	0.8796	0.8918	0.9134	0.9051	0.8945	0.9076	0.9145	0.9015	0.8981	0.9046
KEEL glass-0-1-2-3_vs_4-5	0.9165	0.9140	0.9020	0.8922	0.9032	0.8959	0.8950	0.9001	0.8993	0.8960
KEEL glass-0-1-4-6_vs_2	0.5699	0.5586	0.5125	0.5074	0.4998	0.4762	0.4276	0.5088	0.5141	0.4813
KEEL glass-0-1-5_vs_2	0.5876	0.5720	0.5698	0.5153	0.5436	0.5143	0.4994	0.4878	0.4275	0.4481
KEEL glass-0-1-6_vs_2	0.5322	0.5389	0.4940	0.4790	0.4904	0.5005	0.4106	0.4022	0.4536	0.4410
KEEL glass-0-1-6_vs_5	0.9468	0.9563	0.9707	0.9673	0.9701	0.9394	0.9408	0.9182	0.9669	0.9325
KEEL glass-0-4_vs_5	0.9939	0.9939	0.9700	0.9728	0.9728	0.9594	0.9700	0.9594	0.9728	0.9594
KEEL glass-0-6_vs_5	0.9247	0.8605	0.9328	0.8477	0.9181	0.8934	0.8819	0.9035	0.9035	0.9300
KEEL glass0	0.8056	0.8007	0.8024	0.8048	0.8020	0.7975	0.7931	0.7990	0.7883	0.8094
KEEL glass1	0.7247	0.7434	0.7482	0.7567	0.7620	0.7640	0.7716	0.7680	0.7575	0.7702
KEEL glass2	0.6526	0.5949	0.5856	0.5347	0.4832	0.5022	0.4718	0.5159	0.4865	0.4614
KEEL glass4	0.8301	0.8128	0.7860	0.8099	0.7687	0.7502	0.7708	0.7440	0.7399	0.7432
KEEL glass5	0.9513	0.9533	0.9535	0.9653	0.9626	0.9764	0.9554	0.9445	0.9541	0.9433
KEEL glass6	0.9104	0.9186	0.9199	0.9048	0.9095	0.9116	0.9087	0.9121	0.9083	0.9136
KEEL haberman	0.6480	0.6460	0.6497	0.6423	0.6458	0.6459	0.6495	0.6512	0.6526	0.6531
KEEL iris0	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8748	0.8778	0.8794	0.8871	0.8827	0.8778	0.8768	0.8871	0.8714	0.8780
KEEL new-thyroid1	0.9416	0.9497	0.9588	0.9547	0.9497	0.9495	0.9587	0.9503	0.9487	0.9534
KEEL new-thyroid2	0.9597	0.9590	0.9750	0.9650	0.9608	0.9584	0.9661	0.9575	0.9621	0.9554
KEEL page-blocks-1-3_vs_4	0.9740	0.9893	0.9905	0.9900	0.9902	0.9883	0.9964	0.9880	0.9916	0.9921
KEEL pima	0.7249	0.7168	0.7224	0.7194	0.7210	0.7129	0.7123	0.7064	0.7118	0.7094
KEEL shuttle-c0-vs-c4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027	0.8027
KEEL vehicle0	0.9447	0.9525	0.9535	0.9567	0.9564	0.9599	0.9597	0.9604	0.9601	0.9596
KEEL vehicle1	0.7456	0.7424	0.7443	0.7320	0.7344	0.7270	0.7229	0.7239	0.7166	0.7117
KEEL vehicle2	0.9696	0.9727	0.9771	0.9768	0.9765	0.9777	0.9782	0.9773	0.9779	0.9795
KEEL vehicle3	0.7329	0.7287	0.7319	0.7228	0.7161	0.7129	0.7122	0.7019	0.7084	0.7070
KEEL vowel0	0.9603	0.9685	0.9781	0.9842	0.9785	0.9808	0.9783	0.9845	0.9793	0.9748
KEEL wisconsin	0.9635	0.9651	0.9640	0.9654	0.9657	0.9623	0.9617	0.9630	0.9624	0.9630
KEEL yeast-0-2-5-6_vs_3-7	0.7871	0.7881	0.7900	0.7925	0.7949	0.7813	0.7785	0.7854	0.7782	0.7827
KEEL yeast-0-2-5-7-9_vs_3	0.9025	0.9049	0.9044	0.9013	0.9005	0.9028	0.9029	0.9002	0.9000	0.8980
KEEL yeast-0-3-5-9_vs_7-8	0.6744	0.6830	0.6665	0.6703	0.6563	0.6591	0.6611	0.6703	0.6618	0.6572
KEEL yeast-0-5-6-7-9_vs_4	0.7888	0.7818	0.7828	0.7701	0.7816	0.7699	0.7514	0.7589	0.7355	0.7540
KEEL yeast-1-2-8-9_vs_7	0.6956	0.6960	0.6851	0.6838	0.6638	0.6860	0.6679	0.6543	0.6480	0.6592
KEEL yeast-1-4-5-8_vs_7	0.6203	0.6307	0.6155	0.6081	0.5885	0.6158	0.5886	0.6256	0.6148	0.6075
KEEL yeast-1_vs_7	0.7496	0.7472	0.7537	0.7448	0.7308	0.7115	0.7169	0.7069	0.7204	0.7079
KEEL yeast-2_vs_4	0.9203	0.9098	0.9070	0.8896	0.8969	0.8835	0.8793	0.8735	0.8731	0.8756
KEEL yeast-2_vs_8	0.7045	0.7108	0.7167	0.7233	0.7233	0.7233	0.7196	0.7208	0.7087	0.7223
KEEL yeast1	0.7072	0.7138	0.7106	0.7069	0.7102	0.7107	0.7096	0.7086	0.7081	0.7084
KEEL yeast3	0.9238	0.9173	0.9186	0.9203	0.9184	0.9171	0.9169	0.9093	0.9143	0.9105
KEEL yeast4	0.8446	0.8447	0.8248	0.8153	0.8291	0.8256	0.8291	0.8126	0.8084	0.8108
KEEL yeast5	0.9536	0.9533	0.9458	0.9393	0.9406	0.9394	0.9432	0.9335	0.9379	0.9391
KEEL yeast6	0.8523	0.8548	0.8469	0.8387	0.8408	0.8404	0.8209	0.8290	0.8339	0.8380

Table 71: G-mean for O+RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6600	0.6712	0.6749	0.6623	0.6527	0.6413	0.6338	0.6265	0.6184	0.6142
HDDT boundary	0.5787	0.5985	0.5865	0.6124	0.5746	0.5817	0.5804	0.5663	0.5615	0.5787
HDDT breast-y	0.6034	0.5994	0.6011	0.5993	0.6114	0.5972	0.5979	0.5972	0.6002	0.5935
HDDT cam	0.6989	0.7165	0.7217	0.7231	0.7279	0.7244	0.7240	0.7224	0.7203	0.7191
HDDT compustat	0.7917	0.7871	0.7892	0.7835	0.7882	0.7801	0.7792	0.7787	0.7791	0.7770
HDDT covtype	0.9519	0.9550	0.9563	0.9573	0.9577	0.9579	0.9588	0.9590	0.9591	0.9588
HDDT credit-g	0.6684	0.6814	0.6728	0.6667	0.6582	0.6570	0.6495	0.6434	0.6395	0.6407
HDDT estate	0.5916	0.5961	0.6001	0.5992	0.6024	0.6032	0.6043	0.6012	0.5987	0.5998
HDDT german-numer	0.6817	0.6800	0.6795	0.6757	0.6669	0.6590	0.6608	0.6583	0.6511	0.6464
HDDT heart-v	0.5903	0.6030	0.5869	0.5866	0.5765	0.5860	0.5671	0.5667	0.5681	0.5659
HDDT hypo	0.9557	0.9561	0.9553	0.9552	0.9553	0.9549	0.9595	0.9541	0.9549	0.9566
HDDT ism	0.8953	0.8953	0.8992	0.8968	0.8965	0.8949	0.8981	0.8978	0.8960	0.8973
HDDT letter	0.9818	0.9843	0.9858	0.9870	0.9880	0.9877	0.9885	0.9886	0.9887	0.9878
HDDT oil	0.8321	0.8232	0.8260	0.8120	0.8074	0.7972	0.7933	0.7903	0.7779	0.7896
HDDT optdigits	0.9933	0.9950	0.9954	0.9957	0.9952	0.9960	0.9955	0.9959	0.9960	0.9954
HDDT page	0.9535	0.9560	0.9557	0.9574	0.9565	0.9573	0.9578	0.9555	0.9556	0.9542
HDDT pendigits	0.9900	0.9915	0.9931	0.9932	0.9929	0.9936	0.9932	0.9938	0.9937	0.9936
HDDT phoneme	0.8565	0.8623	0.8664	0.8668	0.8692	0.8690	0.8695	0.8706	0.8709	0.8716
HDDT satimage	0.8594	0.8633	0.8655	0.8659	0.8631	0.8645	0.8654	0.8647	0.8632	0.8611
HDDT segment	0.9919	0.9944	0.9942	0.9939	0.9949	0.9944	0.9947	0.9951	0.9947	0.9949
KEEL abalone19	0.7034	0.7128	0.7024	0.6830	0.6431	0.6336	0.6240	0.6322	0.6122	0.5566
KEEL abalone9-18	0.6985	0.7072	0.7052	0.6823	0.6589	0.6441	0.6338	0.6368	0.6291	0.6300
KEEL cleveland-0_vs_4	0.8143	0.8173	0.8218	0.8035	0.8093	0.8130	0.7597	0.7911	0.7996	0.7400
KEEL ecoli-0-1-3-7_vs_2-6	0.8418	0.8659	0.8368	0.8219	0.8443	0.8147	0.7857	0.7872	0.7883	0.8015
KEEL ecoli-0-1-4-6_vs_5	0.8850	0.8879	0.8910	0.8977	0.8890	0.8834	0.8988	0.8902	0.8788	0.8844
KEEL ecoli-0-1-4-7_vs_2-3	0.8499	0.8513	0.8455	0.8556	0.8506	0.8493	0.8465	0.8501	0.8387	0.8341
KEEL ecoli-0-1-4-7_vs_5-6	0.8589	0.8843	0.8785	0.8770	0.8673	0.8684	0.8764	0.8692	0.8778	0.8684
KEEL ecoli-0-1_vs_2-3-5	0.8641	0.8757	0.8648	0.8545	0.8659	0.8703	0.8776	0.8549	0.8586	0.8699
KEEL ecoli-0-1_vs_5	0.8562	0.8745	0.8746	0.8835	0.8772	0.8853	0.8548	0.8852	0.8734	0.8795
KEEL ecoli-0-2-3-4_vs_5	0.8749	0.8967	0.8887	0.8918	0.8876	0.8869	0.8922	0.8876	0.8856	0.8962
KEEL ecoli-0-2-6-7_vs_3-5	0.8440	0.8568	0.8565	0.8447	0.8507	0.8573	0.8510	0.8536	0.8515	0.8370
KEEL ecoli-0-3-4-6_vs_5	0.8489	0.8661	0.8766	0.8626	0.8718	0.8535	0.8517	0.8664	0.8757	0.8591
KEEL ecoli-0-3-4-7_vs_5-6	0.8763	0.8806	0.8870	0.8900	0.8838	0.8951	0.8949	0.8771	0.8832	0.8732
KEEL ecoli-0-3-4_vs_5	0.8610	0.8996	0.8801	0.8689	0.8714	0.8938	0.8928	0.8768	0.8901	0.8654
KEEL ecoli-0-4-6_vs_5	0.8763	0.8839	0.8837	0.8889	0.8703	0.8775	0.8705	0.8847	0.8666	0.8720
KEEL ecoli-0-6-7_vs_3-5	0.8467	0.8453	0.8449	0.8412	0.8372	0.8451	0.8334	0.8401	0.8418	0.8457
KEEL ecoli-0-6-7_vs_5	0.8900	0.8939	0.9010	0.8962	0.8933	0.9017	0.8919	0.8862	0.8919	0.8818
KEEL ecoli-0_vs_1	0.9745	0.9757	0.9764	0.9752	0.9758	0.9764	0.9764	0.9764	0.9764	0.9764
KEEL ecoli1	0.8836	0.8709	0.8705	0.8598	0.8591	0.8636	0.8570	0.8605	0.8609	0.8522
KEEL ecoli2	0.8923	0.8956	0.8972	0.8958	0.8997	0.8916	0.8853	0.8962	0.8923	0.8878
KEEL ecoli3	0.8350	0.8384	0.8317	0.8221	0.8293	0.8066	0.8178	0.8001	0.8108	0.7974
KEEL ecoli4	0.9338	0.9276	0.9322	0.9263	0.9272	0.9276	0.9128	0.9134	0.9185	0.9302
KEEL glass-0-1-2-3_vs_4-5	0.9080	0.9092	0.9089	0.9066	0.9075	0.9173	0.9093	0.9086	0.9104	0.8985
KEEL glass-0-1-4-6_vs_2	0.5785	0.6002	0.5624	0.5276	0.4891	0.5238	0.4356	0.4990	0.4643	0.4834
KEEL glass-0-1-5_vs_2	0.5492	0.5554	0.5544	0.5553	0.5178	0.4969	0.4514	0.5214	0.4445	0.4899
KEEL glass-0-1-6_vs_2	0.5851	0.5421	0.5705	0.5649	0.5234	0.5258	0.5340	0.5154	0.4459	0.4493
KEEL glass-0-1-6_vs_5	0.9498	0.9587	0.9768	0.9779	0.9577	0.8834	0.9582	0.9282	0.8948	0.8859
KEEL glass-0-4_vs_5	0.9466	0.9728	0.9728	0.9728	0.9952	0.9505	0.9846	0.9487	0.9594	0.9594
KEEL glass-0-6_vs_5	0.9159	0.9439	0.9470	0.9354	0.9511	0.9367	0.9511	0.9501	0.9493	0.9501
KEEL glass0	0.8005	0.8075	0.8104	0.8073	0.8022	0.8017	0.7954	0.7937	0.8006	0.8015
KEEL glass1	0.7411	0.7470	0.7427	0.7549	0.7616	0.7628	0.7615	0.7786	0.7714	0.7630
KEEL glass2	0.6729	0.6584	0.6149	0.5903	0.5400	0.5620	0.5416	0.5146	0.5080	0.5043
KEEL glass4	0.8460	0.8405	0.8487	0.8483	0.8417	0.8351	0.7985	0.7996	0.7690	0.7818
KEEL glass5	0.9439	0.9443	0.9548	0.9455	0.9645	0.9249	0.9401	0.9309	0.9355	0.9058
KEEL glass6	0.9040	0.9152	0.9158	0.9248	0.9183	0.9085	0.9031	0.9019	0.9171	0.9144
KEEL haberman	0.6439	0.6475	0.6525	0.6454	0.6503	0.6368	0.6351	0.6427	0.6404	0.6339
KEEL iris0	0.9837	0.9837	0.9837	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816	0.9816
KEEL led7digit-0-2-4-5-6-	0.8876	0.8840	0.8846	0.8925	0.8931	0.8916	0.8899	0.8937	0.8901	0.8935
KEEL new-thyroid1	0.9772	0.9763	0.9692	0.9689	0.9554	0.9660	0.9581	0.9689	0.9544	0.9690
KEEL new-thyroid2	0.9664	0.9680	0.9766	0.9667	0.9667	0.9715	0.9749	0.9732	0.9702	0.9678
KEEL page-blocks-1-3_vs_4	0.9736	0.9843	0.9873	0.9932	0.9957	0.9957	0.9968	0.9971	0.9927	0.9927
KEEL pima	0.7210	0.7164	0.7182	0.7203	0.7164	0.7121	0.7096	0.7107	0.7043	0.7064
KEEL shuttle-c0-vs-c4	1.0000	1.0000	0.9984	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.9767	0.9633	0.9816	0.9577	0.9625	0.9449	0.9633	0.8210	0.9816	0.9449
KEEL vehicle0	0.9471	0.9556	0.9580	0.9596	0.9628	0.9627	0.9608	0.9613	0.9622	0.9644
KEEL vehicle1	0.7476	0.7414	0.7331	0.7254	0.7197	0.7130	0.7137	0.7152	0.7121	0.7066
KEEL vehicle2	0.9737	0.9741	0.9769	0.9779	0.9776	0.9779	0.9796	0.9796	0.9796	0.9802
KEEL vehicle3	0.7380	0.7250	0.7241	0.7235	0.7168	0.7062	0.7065	0.6941	0.6971	0.6984
KEEL vowel0	0.9636	0.9728	0.9764	0.9734	0.9768	0.9702	0.9754	0.9812	0.9764	0.9726
KEEL wisconsin	0.9645	0.9618	0.9644	0.9635	0.9652	0.9607	0.9630	0.9632	0.9617	0.9630
KEEL yeast-0-2-5-6_vs_3-7	0.7844	0.7923	0.7951	0.7984	0.7905	0.7867	0.7852	0.7788	0.7842	0.7770
KEEL yeast-0-2-5-7-9_vs_3	0.9003	0.9059	0.9048	0.9071	0.9002	0.9017	0.9051	0.9018	0.9054	0.9039
KEEL yeast-0-3-5-9_vs_7-8	0.6786	0.6874	0.6854	0.6798	0.6630	0.6627	0.6710	0.6515	0.6666	0.6541
KEEL yeast-0-5-6-7-9_vs_4	0.7771	0.7767	0.7708	0.7798	0.7529	0.7561	0.7641	0.7480	0.7557	0.7393
KEEL yeast-1-2-8-9_vs_7	0.6629	0.6837	0.6793	0.6746	0.6934	0.6811	0.6452	0.6539	0.6262	0.6420
KEEL yeast-1-4-5-8_vs_7	0.6076	0.6065	0.6068	0.5971	0.6310	0.6098	0.6004	0.5816	0.5940	0.5841
KEEL yeast-1_vs_7	0.7447	0.7311	0.7309	0.7190	0.7433	0.7034	0.7211	0.6790	0.6683	0.7067
KEEL yeast-2_vs_4	0.9150	0.9043	0.9007	0.8923	0.8876	0.8805	0.8703	0.8748	0.8797	0.8732
KEEL yeast-2_vs_8	0.7139	0.7185	0.7146	0.7128	0.7074	0.7112	0.7150	0.7124	0.6998	0.6965
KEEL yeast1	0.7069	0.7119	0.7117	0.7122	0.7097	0.7055	0.7043	0.7055	0.6995	0.7055
KEEL yeast3	0.9231	0.9214	0.9221	0.9187	0.9167	0.9138	0.9119	0.9155	0.9084	0.9094
KEEL yeast4	0.8365	0.8288	0.8192	0.8133	0.8156	0.8125	0.8255	0.8164	0.8145	0.7983
KEEL yeast5	0.9541	0.9526	0.9388	0.9531	0.9487	0.9405	0.9451	0.9343	0.9370	0.9197
KEEL yeast6	0.8638	0.8595	0.8501	0.8491	0.8400	0.8427	0.8419	0.8363	0.8406	0.8258

Table 72: G-mean for DN+RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6713	0.6874	0.6880	0.6836	0.6760	0.6672	0.6644	0.6573	0.6501	0.6453
HDDT boundary	0.6091	0.6191	0.6179	0.6135	0.6150	0.5967	0.6029	0.5865	0.5780	0.5731
HDDT breast-y	0.5977	0.5987	0.6102	0.6058	0.6028	0.6001	0.5949	0.5875	0.5870	0.5860
HDDT cam	0.6952	0.7115	0.7146	0.7186	0.7216	0.7210	0.7226	0.7212	0.7200	0.7182
HDDT compustat	0.7984	0.7995	0.8032	0.8021	0.7974	0.7943	0.7932	0.7934	0.7882	0.7822
HDDT covtype	0.9527	0.9562	0.9575	0.9577	0.9593	0.9596	0.9600	0.9593	0.9597	0.9602
HDDT credit-g	0.6773	0.6829	0.6708	0.6650	0.6654	0.6533	0.6506	0.6452	0.6434	0.6393
HDDT estate	0.5810	0.5835	0.5843	0.5797	0.5806	0.5765	0.5774	0.5742	0.5685	0.5675
HDDT german-numer	0.6855	0.6787	0.6751	0.6658	0.6634	0.6642	0.6589	0.6456	0.6486	0.6430
HDDT heart-v	0.6038	0.5989	0.5932	0.5888	0.5733	0.5738	0.5786	0.5737	0.5803	0.5774
HDDT hypo	0.9576	0.9591	0.9589	0.9605	0.9613	0.9619	0.9611	0.9630	0.9601	0.9638
HDDT ism	0.8920	0.8945	0.8969	0.8966	0.8961	0.8975	0.8977	0.8966	0.8956	0.8980
HDDT letter	0.9845	0.9870	0.9877	0.9891	0.9888	0.9896	0.9908	0.9901	0.9910	0.9904
HDDT oil	0.7940	0.8037	0.8003	0.7890	0.7974	0.7950	0.7740	0.7862	0.7846	0.7695
HDDT optdigits	0.9929	0.9945	0.9945	0.9955	0.9958	0.9956	0.9954	0.9956	0.9955	0.9959
HDDT page	0.9502	0.9537	0.9544	0.9560	0.9569	0.9569	0.9558	0.9554	0.9584	0.9578
HDDT pendigits	0.9913	0.9930	0.9934	0.9939	0.9948	0.9952	0.9949	0.9957	0.9956	0.9958
HDDT phoneme	0.8613	0.8669	0.8699	0.8698	0.8700	0.8714	0.8712	0.8704	0.8715	0.8698
HDDT satimage	0.8616	0.8666	0.8698	0.8714	0.8721	0.8727	0.8690	0.8678	0.8664	0.8652
HDDT segment	0.9932	0.9935	0.9947	0.9952	0.9951	0.9954	0.9956	0.9955	0.9959	0.9954
KEEL abalone19	0.6985	0.7253	0.7256	0.6895	0.6988	0.6696	0.6704	0.6231	0.6231	0.6322
KEEL abalone9-18	0.6940	0.6912	0.6816	0.6992	0.6699	0.6651	0.6662	0.6696	0.6718	0.6512
KEEL cleveland-0_vs_4	0.8647	0.8276	0.8117	0.8143	0.8028	0.7835	0.7911	0.7730	0.7521	0.7879
KEEL ecoli-0-1-3-7_vs_2-6	0.8146	0.8329	0.8172	0.8201	0.8254	0.8298	0.8273	0.8273	0.7962	0.7990
KEEL ecoli-0-1-4-6_vs_5	0.9051	0.9061	0.9023	0.8918	0.9061	0.8971	0.8902	0.8971	0.8920	0.8930
KEEL ecoli-0-1-4-7_vs_2-3	0.8662	0.8862	0.8759	0.8709	0.8743	0.8645	0.8693	0.8616	0.8716	0.8725
KEEL ecoli-0-1-4-7_vs_5-6	0.8739	0.8886	0.8921	0.9025	0.9012	0.9056	0.9056	0.9053	0.8942	0.9066
KEEL ecoli-0-1_vs_2-3-5	0.8790	0.8783	0.8635	0.8722	0.8684	0.8676	0.8749	0.8672	0.8655	0.8671
KEEL ecoli-0-1_vs_5	0.8932	0.8889	0.8975	0.9000	0.8959	0.8964	0.8981	0.8980	0.8979	0.8988
KEEL ecoli-0-2-3-4_vs_5	0.9169	0.9176	0.9135	0.9107	0.9061	0.8970	0.8994	0.9072	0.8980	0.8922
KEEL ecoli-0-2-6-7_vs_3-5	0.8526	0.8645	0.8539	0.8417	0.8499	0.8466	0.8469	0.8395	0.8471	0.8440
KEEL ecoli-0-3-4-6_vs_5	0.8894	0.8725	0.8984	0.8665	0.8862	0.8696	0.8834	0.8673	0.8652	0.8796
KEEL ecoli-0-3-4-7_vs_5-6	0.8721	0.8901	0.8904	0.9048	0.8911	0.8928	0.8999	0.8930	0.8931	0.8934
KEEL ecoli-0-3-4_vs_5	0.8849	0.8943	0.8931	0.8834	0.8844	0.8845	0.8792	0.8859	0.8850	0.8901
KEEL ecoli-0-4-6_vs_5	0.8896	0.9091	0.9061	0.8953	0.8948	0.8879	0.8961	0.8953	0.8895	0.8925
KEEL ecoli-0-6-7_vs_3-5	0.8347	0.8257	0.8375	0.8389	0.8315	0.8387	0.8433	0.8460	0.8288	0.8300
KEEL ecoli-0-6-7_vs_5	0.8903	0.8901	0.8850	0.8812	0.8867	0.8907	0.8692	0.8885	0.8862	0.8814
KEEL ecoli-0_vs_1	0.9750	0.9757	0.9771	0.9764	0.9764	0.9771	0.9764	0.9771	0.9764	0.9771
KEEL ecoli1	0.8780	0.8825	0.8772	0.8763	0.8681	0.8728	0.8748	0.8715	0.8691	0.8737
KEEL ecoli2	0.8896	0.8907	0.8965	0.8990	0.8960	0.8985	0.9045	0.9006	0.8927	0.8972
KEEL ecoli3	0.8632	0.8581	0.8430	0.8312	0.8305	0.8291	0.8394	0.8068	0.8068	0.8292
KEEL ecoli4	0.9453	0.9398	0.9421	0.9259	0.9443	0.9438	0.9331	0.9350	0.9255	0.9305
KEEL glass-0-1-2-3_vs_4-5	0.9241	0.9231	0.9096	0.9121	0.9112	0.9038	0.9079	0.8945	0.9063	0.9023
KEEL glass-0-1-4-6_vs_2	0.6223	0.6638	0.6485	0.6602	0.5967	0.6081	0.6321	0.5790	0.5008	0.5954
KEEL glass-0-1-5_vs_2	0.6468	0.6522	0.6543	0.6430	0.6252	0.5828	0.5801	0.6071	0.5527	0.6016
KEEL glass-0-1-6_vs_2	0.5460	0.6911	0.6067	0.5735	0.5860	0.6198	0.5523	0.5581	0.5540	0.4725
KEEL glass-0-1-6_vs_5	0.9479	0.9592	0.9662	0.9562	0.9495	0.9548	0.9272	0.9444	0.9319	0.9426
KEEL glass-0-4_vs_5	0.9425	0.9577	0.9729	0.9748	0.9724	0.9777	0.9778	0.9789	0.9789	0.9894
KEEL glass-0-6_vs_5	0.9268	0.9673	0.9608	0.9744	0.9543	0.9503	0.9505	0.9533	0.9558	0.9649
KEEL glass0	0.7947	0.8037	0.8119	0.7987	0.8008	0.7974	0.7921	0.7968	0.7922	0.7945
KEEL glass1	0.7523	0.7604	0.7702	0.7665	0.7769	0.7630	0.7692	0.7625	0.7681	0.7783
KEEL glass2	0.7121	0.7083	0.6615	0.6658	0.6894	0.6156	0.6593	0.6492	0.6326	0.6234
KEEL glass4	0.8544	0.8636	0.8905	0.8341	0.8641	0.8573	0.8567	0.8713	0.8454	0.8001
KEEL glass5	0.8966	0.9057	0.9357	0.9363	0.9199	0.9336	0.9583	0.9139	0.9137	0.9167
KEEL glass6	0.9193	0.9193	0.9205	0.9295	0.9183	0.9194	0.9096	0.9095	0.9178	0.9154
KEEL haberman	0.6322	0.6369	0.6384	0.6343	0.6334	0.6300	0.6198	0.6162	0.5987	0.5992
KEEL iris0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.8873	0.8865	0.8861	0.8845	0.8956	0.8926	0.8869	0.8921	0.8793	0.8876
KEEL new-thyroid1	0.9612	0.9629	0.9664	0.9722	0.9701	0.9698	0.9670	0.9664	0.9633	0.9667
KEEL new-thyroid2	0.9662	0.9723	0.9728	0.9772	0.9755	0.9701	0.9683	0.9692	0.9640	0.9732
KEEL page-blocks-1-3_vs_4	0.9751	0.9854	0.9905	0.9850	0.9955	0.9961	0.9923	0.9955	0.9968	0.9977
KEEL pima	0.7181	0.7233	0.7105	0.7184	0.7126	0.7147	0.7162	0.7129	0.7141	0.7087
KEEL shuttle-c0-vs-c4	0.9992	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.9959	0.9992	0.9984	1.0000	1.0000	0.9992	1.0000	1.0000	1.0000	1.0000
KEEL vehicle0	0.9426	0.9503	0.9545	0.9546	0.9579	0.9581	0.9599	0.9613	0.9593	0.9612
KEEL vehicle1	0.7504	0.7466	0.7413	0.7277	0.7251	0.7201	0.7201	0.7124	0.7115	0.7119
KEEL vehicle2	0.9724	0.9733	0.9763	0.9779	0.9779	0.9795	0.9777	0.9759	0.9793	0.9779
KEEL vehicle3	0.7259	0.7274	0.7141	0.7108	0.7016	0.6993	0.6974	0.6892	0.6836	0.6878
KEEL vowel0	0.9618	0.9777	0.9784	0.9820	0.9813	0.9878	0.9828	0.9883	0.9852	0.9837
KEEL wisconsin	0.9680	0.9670	0.9655	0.9655	0.9636	0.9636	0.9655	0.9641	0.9632	0.9649
KEEL yeast-0-2-5-6_vs_3-7	0.7970	0.8048	0.8047	0.8034	0.7876	0.7940	0.7927	0.7757	0.7708	0.7841
KEEL yeast-0-2-5-7-9_vs_3	0.9042	0.9043	0.9040	0.9035	0.9023	0.9047	0.9011	0.8971	0.8989	0.8984
KEEL yeast-0-3-5-9_vs_7-8	0.7047	0.6846	0.6802	0.6749	0.6917	0.6920	0.6655	0.6653	0.6659	0.6482
KEEL yeast-0-5-6-7-9_vs_4	0.7827	0.7879	0.7969	0.7821	0.7890	0.7790	0.7774	0.7688	0.7812	0.7537
KEEL yeast-1-2-8-9_vs_7	0.6786	0.6971	0.6972	0.7129	0.6845	0.6893	0.6624	0.6848	0.6464	0.6600
KEEL yeast-1-4-5-8_vs_7	0.6130	0.6026	0.6122	0.6127	0.5980	0.6232	0.5728	0.5967	0.5588	0.5944
KEEL yeast-1_vs_7	0.7427	0.7539	0.7455	0.7612	0.7115	0.7513	0.7501	0.7117	0.6977	0.7034
KEEL yeast-2_vs_4	0.9098	0.9029	0.9023	0.8966	0.8869	0.8896	0.8890	0.8858	0.8824	0.8858
KEEL yeast-2_vs_8	0.7213	0.7405	0.7431	0.7453	0.7172	0.7486	0.7382	0.7486	0.7421	0.7348
KEEL yeast1	0.7063	0.7054	0.6974	0.6927	0.6851	0.6824	0.6791	0.6779	0.6766	0.6757
KEEL yeast3	0.9206	0.9222	0.9180	0.9200	0.9154	0.9144	0.9116	0.9140	0.9097	0.9104
KEEL yeast4	0.8316	0.8305	0.8245	0.8156	0.8253	0.8283	0.8216	0.8133	0.8109	0.8151
KEEL yeast5	0.9528	0.9531	0.9570	0.9490	0.9557	0.9448	0.9546	0.9351	0.9462	0.9323
KEEL yeast6	0.8661	0.8661	0.8596	0.8610	0.8426	0.8549	0.8521	0.8467	0.8475	0.8481

Table 73: G-mean for RFW+RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6654	0.6873	0.6878	0.6899	0.6902	0.6863	0.6836	0.6780	0.6759	0.6696
HDDT boundary	0.6434	0.6586	0.6674	0.6490	0.6495	0.6341	0.6418	0.6268	0.6272	0.6232
HDDT breast-y	0.6000	0.6039	0.6023	0.5943	0.5984	0.5905	0.5908	0.5947	0.5904	0.5891
HDDT cam	0.6986	0.7137	0.7208	0.7238	0.7253	0.7263	0.7262	0.7257	0.7242	0.7253
HDDT compustat	0.7941	0.7875	0.7840	0.7853	0.7779	0.7801	0.7812	0.7770	0.7788	0.7818
HDDT covtype	0.9529	0.9559	0.9573	0.9584	0.9598	0.9595	0.9599	0.9600	0.9603	0.9602
HDDT credit-g	0.6694	0.6636	0.6640	0.6563	0.6517	0.6488	0.6503	0.6442	0.6386	0.6383
HDDT estate	0.6004	0.5988	0.6017	0.6039	0.6040	0.6043	0.6017	0.6016	0.6017	0.6022
HDDT german-numer	0.6811	0.6783	0.6774	0.6674	0.6612	0.6630	0.6581	0.6517	0.6440	0.6399
HDDT heart-v	0.5957	0.5886	0.5937	0.5852	0.5738	0.5727	0.5690	0.5613	0.5538	0.5643
HDDT hypo	0.9670	0.9653	0.9644	0.9654	0.9654	0.9637	0.9612	0.9633	0.9602	0.9653
HDDT ism	0.8889	0.8939	0.8938	0.8959	0.8969	0.8922	0.8906	0.8937	0.8921	0.8913
HDDT letter	0.9849	0.9871	0.9876	0.9892	0.9892	0.9888	0.9894	0.9895	0.9900	0.9898
HDDT oil	0.7944	0.8132	0.8153	0.8127	0.8177	0.8038	0.8111	0.7846	0.7925	0.7891
HDDT optdigits	0.9931	0.9939	0.9942	0.9949	0.9948	0.9951	0.9945	0.9946	0.9949	0.9953
HDDT page	0.9516	0.9517	0.9531	0.9550	0.9529	0.9541	0.9562	0.9545	0.9551	0.9551
HDDT pendigits	0.9899	0.9914	0.9922	0.9928	0.9937	0.9937	0.9934	0.9932	0.9938	0.9931
HDDT phoneme	0.8594	0.8622	0.8637	0.8667	0.8660	0.8672	0.8674	0.8674	0.8696	0.8693
HDDT satimage	0.8605	0.8681	0.8681	0.8669	0.8665	0.8636	0.8654	0.8580	0.8617	0.8600
HDDT segment	0.9914	0.9929	0.9927	0.9937	0.9936	0.9926	0.9927	0.9923	0.9937	0.9940
KEEL abalone19	0.6815	0.7057	0.6954	0.6676	0.6388	0.6119	0.6403	0.6134	0.6109	0.5693
KEEL abalone9-18	0.7005	0.6911	0.6936	0.6824	0.6835	0.6478	0.6582	0.6526	0.6379	0.6268
KEEL cleveland-0_vs_4	0.8162	0.8318	0.7973	0.8102	0.7874	0.8200	0.7869	0.7727	0.7535	0.7655
KEEL ecoli-0-1-3-7_vs_2-6	0.7516	0.7995	0.7596	0.7782	0.7890	0.7203	0.7787	0.7277	0.7690	0.6546
KEEL ecoli-0-1-4-6_vs_5	0.8836	0.9055	0.8892	0.8982	0.8860	0.8929	0.8785	0.8850	0.8903	0.8634
KEEL ecoli-0-1-4-7_vs_2-3	0.8523	0.8603	0.8570	0.8515	0.8617	0.8525	0.8563	0.8539	0.8529	0.8569
KEEL ecoli-0-1-4-7_vs_5-6	0.8469	0.8542	0.8585	0.8543	0.8548	0.8662	0.8447	0.8451	0.8479	0.8431
KEEL ecoli-0-1_vs_2-3-5	0.8643	0.8782	0.8867	0.8761	0.8696	0.8738	0.8668	0.8801	0.8800	0.8573
KEEL ecoli-0-1_vs_5	0.8968	0.8973	0.9143	0.9015	0.8865	0.8932	0.9006	0.8722	0.8655	0.8783
KEEL ecoli-0-2-3-4_vs_5	0.8937	0.8988	0.9035	0.9030	0.8864	0.8922	0.8841	0.8961	0.8810	0.8833
KEEL ecoli-0-2-6-7_vs_3-5	0.8536	0.8565	0.8511	0.8509	0.8644	0.8506	0.8529	0.8468	0.8400	0.8477
KEEL ecoli-0-3-4-6_vs_5	0.8954	0.8878	0.8954	0.8798	0.8720	0.8868	0.8760	0.8590	0.8676	0.8687
KEEL ecoli-0-3-4-7_vs_5-6	0.8658	0.8714	0.8775	0.8796	0.8772	0.8907	0.8820	0.8789	0.8847	0.8873
KEEL ecoli-0-3-4_vs_5	0.8700	0.8886	0.8877	0.8766	0.8847	0.8797	0.8684	0.8846	0.8935	0.8626
KEEL ecoli-0-4-6_vs_5	0.9133	0.9218	0.9017	0.8831	0.8843	0.8696	0.8740	0.8559	0.8295	0.8498
KEEL ecoli-0-6-7_vs_3-5	0.8335	0.8418	0.8397	0.8326	0.8342	0.8298	0.8357	0.8321	0.8366	0.8328
KEEL ecoli-0-6-7_vs_5	0.8957	0.9011	0.8971	0.8884	0.8972	0.8875	0.8942	0.8898	0.8921	0.8920
KEEL ecoli-0_vs_1	0.9736	0.9743	0.9757	0.9757	0.9764	0.9764	0.9764	0.9771	0.9771	0.9764
KEEL ecoli1	0.8727	0.8724	0.8666	0.8747	0.8679	0.8597	0.8578	0.8612	0.8628	0.8641
KEEL ecoli2	0.8769	0.8816	0.8744	0.8876	0.8913	0.8899	0.8790	0.8869	0.8900	0.8839
KEEL ecoli3	0.8308	0.8230	0.8399	0.8252	0.8271	0.8159	0.8000	0.8092	0.7889	0.7931
KEEL ecoli4	0.8971	0.9093	0.8992	0.8989	0.9098	0.9083	0.9063	0.9104	0.9110	0.9125
KEEL glass-0-1-2-3_vs_4-5	0.9196	0.9115	0.9128	0.9018	0.9058	0.9044	0.9054	0.8993	0.8946	0.8975
KEEL glass-0-1-4-6_vs_2	0.5898	0.5269	0.4942	0.5195	0.4882	0.4622	0.5005	0.5250	0.4209	0.4790
KEEL glass-0-1-5_vs_2	0.6064	0.5835	0.5268	0.5019	0.4815	0.4487	0.4873	0.5055	0.4491	0.4124
KEEL glass-0-1-6_vs_2	0.5046	0.4667	0.4830	0.4771	0.5145	0.4707	0.4544	0.4849	0.4749	0.4557
KEEL glass-0-1-6_vs_5	0.9215	0.9488	0.9581	0.9473	0.9548	0.9762	0.9388	0.9298	0.9382	0.9316
KEEL glass-0-4_vs_5	0.9834	0.9939	0.9700	0.9834	0.9728	0.9728	0.9728	0.9700	0.9594	0.9594
KEEL glass-0-6_vs_5	0.9221	0.9428	0.9493	0.9501	0.9582	0.8918	0.9541	0.9224	0.9456	0.9522
KEEL glass0	0.7903	0.7977	0.8052	0.7982	0.8112	0.7938	0.7988	0.7938	0.7955	0.7988
KEEL glass1	0.7281	0.7408	0.7484	0.7516	0.7543	0.7481	0.7567	0.7491	0.7607	0.7578
KEEL glass2	0.6050	0.6241	0.5916	0.5311	0.5704	0.5173	0.4275	0.5296	0.5124	0.4598
KEEL glass4	0.8074	0.8395	0.8040	0.8359	0.8097	0.7811	0.8124	0.7959	0.7971	0.7850
KEEL glass5	0.9379	0.9558	0.9534	0.9606	0.9438	0.9505	0.9677	0.9351	0.9466	0.9063
KEEL glass6	0.9229	0.9173	0.9117	0.9065	0.9059	0.9111	0.9094	0.9147	0.9137	0.9076
KEEL haberman	0.6514	0.6444	0.6468	0.6406	0.6419	0.6364	0.6394	0.6444	0.6474	0.6471
KEEL iris0	0.9898	0.9918	0.9877	0.9877	0.9918	0.9918	0.9918	0.9918	0.9918	0.9918
KEEL led7digit-0-2-4-5-6-	0.8711	0.8788	0.8823	0.8762	0.8838	0.8817	0.8782	0.8773	0.8756	0.8760
KEEL new-thyroid1	0.9474	0.9572	0.9635	0.9548	0.9499	0.9565	0.9564	0.9593	0.9575	0.9603
KEEL new-thyroid2	0.9701	0.9703	0.9737	0.9782	0.9643	0.9655	0.9619	0.9675	0.9713	0.9625
KEEL page-blocks-1-3_vs_4	0.9632	0.9813	0.9868	0.9898	0.9909	0.9921	0.9925	0.9889	0.9902	0.9898
KEEL pima	0.7317	0.7353	0.7266	0.7263	0.7185	0.7131	0.7142	0.7141	0.7149	0.7108
KEEL shuttle-c0-vs-c4	0.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL shuttle-c2-vs-c4	0.8577	0.8577	0.8577	0.8816	0.8816	0.8816	0.9000	0.9000	0.9000	0.9000
KEEL vehicle0	0.9489	0.9548	0.9576	0.9595	0.9615	0.9613	0.9621	0.9623	0.9645	0.9615
KEEL vehicle1	0.7396	0.7430	0.7366	0.7328	0.7318	0.7246	0.7192	0.7196	0.7173	0.7156
KEEL vehicle2	0.9726	0.9756	0.9782	0.9779	0.9770	0.9787	0.9779	0.9805	0.9812	0.9804
KEEL vehicle3	0.7375	0.7391	0.7326	0.7274	0.7202	0.7211	0.7109	0.7160	0.7068	0.6972
KEEL vowel0	0.9678	0.9768	0.9791	0.9841	0.9783	0.9846	0.9838	0.9798	0.9865	0.9846
KEEL wisconsin	0.9665	0.9674	0.9646	0.9655	0.9627	0.9644	0.9645	0.9624	0.9649	0.9663
KEEL yeast-0-2-5-6_vs_3-7	0.7902	0.7879	0.7850	0.7848	0.7798	0.7802	0.7741	0.7744	0.7719	0.7685
KEEL yeast-0-2-5-7-9_vs_3	0.8964	0.8953	0.9009	0.8943	0.8982	0.8996	0.8938	0.8987	0.8935	0.8992
KEEL yeast-0-3-5-9_vs_7-8	0.6833	0.6919	0.6876	0.6726	0.6712	0.6634	0.6588	0.6527	0.6637	0.6713
KEEL yeast-0-5-6-7-9_vs_4	0.7975	0.7942	0.7838	0.7934	0.7764	0.7711	0.7734	0.7669	0.7268	0.7460
KEEL yeast-1-2-8-9_vs_7	0.6705	0.6848	0.6778	0.6613	0.6763	0.6620	0.6639	0.6430	0.6592	0.6556
KEEL yeast-1-4-5-8_vs_7	0.6362	0.6306	0.6201	0.6235	0.6043	0.5911	0.6148	0.5931	0.6191	0.5904
KEEL yeast-1_vs_7	0.7206	0.7441	0.7522	0.7398	0.7287	0.7361	0.7332	0.7271	0.7385	0.7306
KEEL yeast-2_vs_4	0.9138	0.9120	0.9058	0.8979	0.8876	0.8881	0.8859	0.8814	0.8822	0.8743
KEEL yeast-2_vs_8	0.7102	0.7082	0.7187	0.7191	0.7173	0.7242	0.7202	0.7279	0.7200	0.7095
KEEL yeast1	0.7075	0.7071	0.7097	0.7093	0.7086	0.7090	0.7072	0.7065	0.7087	0.7075
KEEL yeast3	0.9229	0.9238	0.9231	0.9195	0.9174	0.9118	0.9127	0.9087	0.9083	0.9074
KEEL yeast4	0.8275	0.8277	0.8255	0.8192	0.8284	0.8256	0.8015	0.7996	0.8137	0.8160
KEEL yeast5	0.9539	0.9505	0.9504	0.9481	0.9524	0.9457	0.9366	0.9381	0.9467	0.9350
KEEL yeast6	0.8410	0.8421	0.8247	0.8206	0.8162	0.8315	0.8323	0.8296	0.8273	0.8093

Table 74: G-mean for RF+RUSBo ensembles of different sizes.

Dataset	Ensemble size									
	10	20	30	40	50	60	70	80	90	100
HDDT PhosS	0.6675	0.6637	0.6368	0.6174	0.5971	0.5757	0.5602	0.5365	0.5219	0.5126
HDDT boundary	0.6128	0.6306	0.6181	0.6029	0.6066	0.5913	0.5712	0.5903	0.5619	0.5605
HDDT breast-y	0.6011	0.6093	0.5961	0.5986	0.5829	0.5905	0.5845	0.5804	0.5906	0.5894
HDDT cam	0.7029	0.7171	0.7184	0.7151	0.7124	0.7103	0.7059	0.7000	0.6951	0.6953
HDDT compustat	0.7883	0.7910	0.7871	0.7859	0.7848	0.7793	0.7823	0.7811	0.7744	0.7784
HDDT covtype	0.9507	0.9536	0.9551	0.9559	0.9567	0.9567	0.9577	0.9578	0.9580	0.9581
HDDT credit-g	0.6707	0.6686	0.6627	0.6533	0.6495	0.6501	0.6540	0.6511	0.6457	0.6491
HDDT estate	0.6015	0.6041	0.6039	0.6073	0.6070	0.6083	0.6086	0.6090	0.6090	0.6098
HDDT german-numer	0.6803	0.6786	0.6767	0.6711	0.6724	0.6620	0.6647	0.6629	0.6568	0.6536
HDDT heart-v	0.6130	0.6230	0.6135	0.5874	0.5756	0.5800	0.5884	0.5720	0.5530	0.5633
HDDT hypo	0.9571	0.9588	0.9599	0.9626	0.9603	0.9605	0.9626	0.9566	0.9604	0.9605
HDDT ism	0.8945	0.8956	0.8960	0.8964	0.8977	0.8961	0.8975	0.8952	0.8961	0.8972
HDDT letter	0.9796	0.9819	0.9833	0.9836	0.9847	0.9854	0.9868	0.9858	0.9871	0.9852
HDDT oil	0.7786	0.7936	0.7874	0.7712	0.7865	0.7682	0.7564	0.7538	0.7558	0.7559
HDDT optdigits	0.9923	0.9948	0.9948	0.9949	0.9950	0.9941	0.9941	0.9950	0.9951	0.9944
HDDT page	0.9478	0.9514	0.9524	0.9522	0.9503	0.9515	0.9510	0.9516	0.9525	0.9534
HDDT pendigits	0.9890	0.9928	0.9927	0.9935	0.9940	0.9945	0.9948	0.9949	0.9952	0.9946
HDDT phoneme	0.8558	0.8596	0.8648	0.8659	0.8687	0.8691	0.8700	0.8705	0.8696	0.8712
HDDT satimage	0.8595	0.8615	0.8601	0.8605	0.8607	0.8556	0.8568	0.8596	0.8590	0.8579
HDDT segment	0.9936	0.9945	0.9939	0.9949	0.9939	0.9937	0.9949	0.9940	0.9952	0.9943
KEEL abalone19	0.7274	0.7216	0.6991	0.6533	0.6447	0.6201	0.6248	0.5896	0.5932	0.5858
KEEL abalone9-18	0.8045	0.8063	0.7945	0.7992	0.7912	0.7718	0.7719	0.7403	0.7579	0.7493
KEEL cleveland-0_vs_4	0.7912	0.8235	0.7663	0.7223	0.7611	0.7346	0.6758	0.7145	0.7580	0.6303
KEEL ecoli-0-1-3-7_vs_2-6	0.7022	0.8116	0.7884	0.6979	0.6423	0.7063	0.6827	0.6090	0.6161	0.5709
KEEL ecoli-0-1-4-6_vs_5	0.8922	0.8844	0.8741	0.8656	0.8680	0.8676	0.8608	0.8568	0.8579	0.8571
KEEL ecoli-0-1-4-7_vs_2-3	0.8349	0.8453	0.8320	0.8406	0.8412	0.8448	0.8380	0.8229	0.8216	0.8148
KEEL ecoli-0-1-4-7_vs_5-6	0.8593	0.8670	0.8546	0.8671	0.8725	0.8499	0.8631	0.8557	0.8605	0.8526
KEEL ecoli-0-1_vs_2-3-5	0.8374	0.8450	0.8699	0.8657	0.8690	0.8607	0.8483	0.8409	0.8565	0.8468
KEEL ecoli-0-1_vs_5	0.8769	0.8682	0.8711	0.8662	0.8505	0.8629	0.8609	0.8679	0.8750	0.8649
KEEL ecoli-0-2-3-4_vs_5	0.8718	0.8985	0.8938	0.8975	0.8786	0.8838	0.8902	0.8902	0.8841	0.8809
KEEL ecoli-0-2-6-7_vs_3-5	0.8452	0.8368	0.8537	0.8387	0.8545	0.8342	0.8509	0.8429	0.8349	0.8276
KEEL ecoli-0-3-4-6_vs_5	0.8879	0.8777	0.8743	0.8670	0.8659	0.8705	0.8673	0.8575	0.8632	0.8809
KEEL ecoli-0-3-4-7_vs_5-6	0.8463	0.8447	0.8420	0.8649	0.8603	0.8658	0.8509	0.8661	0.8571	0.8688
KEEL ecoli-0-3-4_vs_5	0.8416	0.8481	0.8527	0.8471	0.8433	0.8542	0.8492	0.8497	0.8549	0.8481
KEEL ecoli-0-4-6_vs_5	0.9008	0.8924	0.8821	0.8789	0.8800	0.8689	0.8819	0.8825	0.8709	0.8745
KEEL ecoli-0-6-7_vs_3-5	0.8355	0.8185	0.8290	0.8241	0.8214	0.8269	0.8111	0.8331	0.8184	0.8125
KEEL ecoli-0-6-7_vs_5	0.8769	0.8891	0.8715	0.8772	0.8852	0.8788	0.8651	0.8717	0.8908	0.8739
KEEL ecoli-0_vs_1	0.9732	0.9724	0.9745	0.9731	0.9746	0.9745	0.9732	0.9710	0.9731	0.9766
KEEL ecoli1	0.8722	0.8720	0.8706	0.8715	0.8703	0.8646	0.8586	0.8619	0.8677	0.8604
KEEL ecoli2	0.8930	0.9023	0.9010	0.8965	0.8941	0.8975	0.8949	0.8973	0.8804	0.8975
KEEL ecoli3	0.8656	0.8558	0.8380	0.8067	0.8057	0.8070	0.7736	0.7607	0.7611	0.7723
KEEL ecoli4	0.9186	0.9253	0.9233	0.9079	0.9142	0.8968	0.9081	0.9095	0.8932	0.8855
KEEL glass-0-1-2-3_vs_4-5	0.9146	0.9216	0.9130	0.9280	0.9320	0.9240	0.9211	0.9188	0.9201	0.9337
KEEL glass-0-1-4-6_vs_2	0.6528	0.6116	0.6394	0.5592	0.6444	0.5503	0.5273	0.4968	0.5628	0.5035
KEEL glass-0-1-5_vs_2	0.6182	0.6391	0.6336	0.5903	0.6058	0.5696	0.5499	0.5387	0.6035	0.5073
KEEL glass-0-1-6_vs_2	0.6568	0.6434	0.6187	0.5722	0.4907	0.4974	0.5345	0.4831	0.4517	0.4909
KEEL glass-0-1-6_vs_5	0.8755	0.8913	0.8557	0.8358	0.8581	0.8370	0.8357	0.8489	0.8419	0.8392
KEEL glass-0-4_vs_5	0.8867	0.9834	0.9487	0.9108	0.9511	0.9100	0.9230	0.9482	0.9230	0.9060
KEEL glass-0-6_vs_5	0.8274	0.8538	0.9337	0.8790	0.9151	0.8781	0.9397	0.9031	0.9267	0.8993
KEEL glass0	0.7661	0.7873	0.7751	0.7739	0.7711	0.7750	0.7785	0.7823	0.7731	0.7677
KEEL glass1	0.7402	0.7393	0.7396	0.7393	0.7459	0.7408	0.7400	0.7476	0.7519	0.7586
KEEL glass2	0.6886	0.7046	0.6915	0.6239	0.6836	0.6089	0.6251	0.5056	0.5797	0.5299
KEEL glass4	0.8620	0.8459	0.7837	0.8250	0.8057	0.7693	0.7225	0.7886	0.7075	0.7084
KEEL glass5	0.8289	0.8574	0.8813	0.8650	0.8640	0.8473	0.8555	0.7815	0.8609	0.8127
KEEL glass6	0.9041	0.8953	0.9062	0.8888	0.9002	0.8935	0.8943	0.8886	0.8946	0.8902
KEEL haberman	0.6011	0.6221	0.6325	0.6294	0.6489	0.6493	0.6352	0.6359	0.6491	0.6369
KEEL iris0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
KEEL led7digit-0-2-4-5-6-	0.8721	0.8879	0.8836	0.8797	0.8841	0.8746	0.8863	0.8795	0.8836	0.8766
KEEL new-thyroid1	0.9719	0.9744	0.9702	0.9767	0.9702	0.9699	0.9727	0.9763	0.9732	0.9732
KEEL new-thyroid2	0.9750	0.9753	0.9765	0.9786	0.9748	0.9773	0.9757	0.9743	0.9773	0.9748
KEEL page-blocks-1-3_vs_4	0.9667	0.9891	0.9760	0.9921	0.9859	0.9856	0.9828	0.9762	0.9876	0.9871
KEEL pima	0.7267	0.7316	0.7303	0.7346	0.7300	0.7258	0.7242	0.7302	0.7319	0.7261
KEEL shuttle-c0-vs-c4	0.9959	0.9959	0.9959	0.9959	0.9959	0.9959	0.9959	0.9959	0.9959	0.9959
KEEL shuttle-c2-vs-c4	0.8955	0.9386	0.9394	0.9427	0.9202	0.9626	0.9066	0.9816	0.9394	0.9808
KEEL vehicle0	0.9553	0.9655	0.9694	0.9691	0.9721	0.9719	0.9768	0.9750	0.9760	0.9768
KEEL vehicle1	0.7682	0.7624	0.7614	0.7576	0.7520	0.7490	0.7491	0.7426	0.7441	0.7392
KEEL vehicle2	0.9678	0.9758	0.9803	0.9795	0.9829	0.9820	0.9818	0.9848	0.9814	0.9840
KEEL vehicle3	0.7472	0.7473	0.7430	0.7393	0.7330	0.7277	0.7332	0.7307	0.7336	0.7237
KEEL vowel0	0.9697	0.9817	0.9887	0.9865	0.9881	0.9899	0.9908	0.9962	0.9871	0.9912
KEEL wisconsin	0.9690	0.9717	0.9714	0.9709	0.9741	0.9730	0.9714	0.9704	0.9695	0.9703
KEEL yeast-0-2-5-6_vs_3-7	0.7875	0.7900	0.7974	0.7895	0.7933	0.7929	0.7785	0.7809	0.7870	0.7855
KEEL yeast-0-2-5-7-9_vs_3	0.8844	0.8935	0.8976	0.8942	0.8934	0.8926	0.8940	0.8978	0.8925	0.8868
KEEL yeast-0-3-5-9_vs_7-8	0.6443	0.6511	0.6397	0.6496	0.6559	0.6500	0.6372	0.6393	0.6380	0.6201
KEEL yeast-0-5-6-7-9_vs_4	0.7623	0.7732	0.7686	0.7604	0.7530	0.7561	0.7525	0.7516	0.7339	0.7222
KEEL yeast-1-2-8-9_vs_7	0.6552	0.6653	0.6694	0.6435	0.6546	0.6272	0.6287	0.6141	0.6259	0.5888
KEEL yeast-1-4-5-8_vs_7	0.6355	0.5911	0.5939	0.5962	0.5762	0.5309	0.5571	0.5959	0.5338	0.5343
KEEL yeast-1_vs_7	0.6954	0.6992	0.7100	0.6819	0.6603	0.6729	0.6440	0.6345	0.6222	0.6286
KEEL yeast-2_vs_4	0.9078	0.9040	0.9031	0.8954	0.8916	0.8841	0.8954	0.8855	0.8917	0.8746
KEEL yeast-2_vs_8	0.7040	0.7091	0.7342	0.7032	0.6885	0.6847	0.6970	0.7197	0.6978	0.6860
KEEL yeast1	0.7067	0.7097	0.7097	0.7128	0.7154	0.7161	0.7146	0.7144	0.7131	0.7142
KEEL yeast3	0.9077	0.9050	0.9034	0.9111	0.9001	0.9021	0.9055	0.9006	0.9015	0.8950
KEEL yeast4	0.8017	0.7846	0.7844	0.7833	0.7855	0.7822	0.7762	0.7784	0.7805	0.7689
KEEL yeast5	0.9301	0.9309	0.9309	0.9418	0.9315	0.9188	0.9289	0.8750	0.9087	0.9103
KEEL yeast6	0.8520	0.8404	0.8315	0.8234	0.8321	0.8090	0.8107	0.8166	0.8200	0.8008

Table 75: Complexity measures for HDDT and KEEL datasets (I).

Dataset	F1	F1v	F2	F3	F4	L1	L2	L3	N1	N2	N3	N4	T1	T2
HDDT PhosS	0.134	2.921	0	0.02	0.03	0.108	0.054	0.5	0.243	0.974	0.259	0	1	23.773
HDDT boundary	-1	3.805	0	0.047	0.325	0.103	0.035	0.5	0.07	0.866	0.087	0.000285	1	20.029
HDDT breast-y	0.021	0.869	0.8	0.003	0.003	0.586	0.297	0.5	0.448	0.865	0.304	0.395	1	31.778
HDDT cam	-1	2.147	1	0	0	0.1	0.05	0.5	0.112	0.859	0.079	0.312	1	143.303
HDDT compustat	0.347	1.76	4.64E-011	0.056	0.098	0.076	0.038	0.5	0.055	0.415	0.025	0.408	0.995	682.85
HDDT covtype	0.591	0.044	0.031	0.283	0.372	0.143	0.071	0.5	0.032	0.192	0.016	0.239	1	3850
HDDT credit-g	0.107	2.088	0.662	0.014	0.024	0.702	0.283	0.486	0.428	0.892	0.271	0.234	1	50
HDDT estate	0.037	0.072	0	0.002	0.008	0.239	0.12	0.5	0.279	0.634	0.182	0.461	0.919	443.5
HDDT german-numer	0.355	1.495	0.664	0.008	0.016	0.715	0.264	0.456	0.485	0.853	0.325	0.284	1	41.667
HDDT heart-v	0.266	2.541	0.2	0.03	0.075	0.548	0.255	0.5	0.325	0.643	0.215	0.175	1	15.385
HDDT hypo	2.304	2.034	0	0.201	0.327	0.174	0.048	0.5	0.046	0.189	0.025	0.096	0.934	126.52
HDDT ism	0.955	4.255	0.005	0.027	0.051	0.111	0.023	0.5	0.026	0.228	0.016	0.219	0.942	1863.333
HDDT letter	1.953	0.133	0.000374	0.289	0.623	1.304	0.009	0.109	0.002	0.236	0.00035	0.087	0.948	1250
HDDT oil	1.373	6.868	0	0.255	1	0.111	0.044	0.5	0.068	0.451	0.041	0.215	0.998	19.122
HDDT optdigits	4.729	0.252	0	0.471	0.865	1.697	0.002	0.003	0.000712	0.409	0.000178	0.005	0.992	87.812
HDDT page	0.511	7.034	0.000021	0.016	0.026	0.319	0.095	0.484	0.068	0.184	0.038	0.212	0.988	547.3
HDDT pendigits	1.288	0.001	0.012	0.317	0.601	1.448	0.026	0.097	0.004	0.207	0.002	0.089	0.986	687
HDDT phoneme	0.27	0.174	0.271	0.122	0.135	0.667	0.257	0.338	0.199	0.269	0.092	0.274	0.986	1080.8
HDDT satimage	0.377	0.476	1.59E-009	0.305	0.605	0.195	0.097	0.5	0.105	0.394	0.063	0.21	0.999	178.611
HDDT segment	1.798	12.635	8.63E-014	0.734	1	0.485	0.143	0.5	0.01	0.114	0.003	0.039	0.933	121.579
KEEL abalone19	0.529	1.891	0.000783	0.334	0.481	0.016	0.008	0.5	0.021	0.221	0.015	0.452	0.842	521.75
KEEL abalone9-18	0.632	7.056	0.033	0.148	0.269	0.118	0.057	0.5	0.119	0.452	0.075	0.313	0.971	91.375
KEEL cleveland-0_vs_4	1.35	14.696	0.164	0.158	1	0.264	0.073	0.5	0.096	0.351	0.068	0.059	0.96	13.615
KEEL ecoli-0-1-3-7_vs_2-6	2.302	2.106	0	0.794	1	0.079	0.025	0.5	0.05	0.247	0.025	0.128	0.879	40.143
KEEL ecoli-0-1-4-6_vs_5	1.34	0.031	0.147	0.382	0.961	0.186	0.071	0.5	0.046	0.268	0.021	0.043	0.914	46.667
KEEL ecoli-0-1-4-7_vs_2-3	0.528	0.657	0	0.107	0.315	0.194	0.086	0.5	0.074	0.34	0.057	0.113	0.943	48
KEEL ecoli-0-1-4-7_vs_5-6	0.912	0.364	0.169	0.331	0.895	0.186	0.075	0.5	0.051	0.287	0.036	0.095	0.919	55.333
KEEL ecoli-0-1_vs_2-3-5	1.103	0.484	0	0.139	0.389	0.243	0.098	0.5	0.082	0.324	0.041	0.09	0.934	34.857
KEEL ecoli-0-1_vs_5	1.39	0.056	0.145	0.317	0.629	0.215	0.083	0.5	0.058	0.278	0.029	0.044	0.904	40
KEEL ecoli-0-2-3-4_vs_5	1.618	0.019	0	0.228	0.554	0.236	0.099	0.5	0.069	0.293	0.04	0.035	0.906	28.857
KEEL ecoli-0-2-6-7_vs_3-5	0.913	0.459	0	0.107	0.339	0.221	0.098	0.5	0.076	0.314	0.045	0.094	0.942	32
KEEL ecoli-0-3-4-6_vs_5	1.595	0.01	0	0.224	0.941	0.232	0.098	0.5	0.068	0.284	0.029	0.073	0.907	29.286
KEEL ecoli-0-3-4-7_vs_5-6	1.13	0.199	0	0.191	0.794	0.232	0.097	0.5	0.066	0.311	0.047	0.095	0.926	36.714
KEEL ecoli-0-3-4_vs_5	1.632	0.021	0	0.225	0.94	0.239	0.1	0.5	0.07	0.292	0.035	0.072	0.905	28.571
KEEL ecoli-0-4-6_vs_5	1.603	0.006	0.179	0.222	0.557	0.232	0.099	0.5	0.069	0.275	0.03	0.057	0.906	33.833
KEEL ecoli-0-6-7_vs_3-5	0.92	0.478	0	0.108	0.338	0.222	0.099	0.5	0.077	0.306	0.045	0.115	0.928	31.714
KEEL ecoli-0-6-7_vs_5	1.692	0.02	0.247	0.118	0.855	0.213	0.091	0.5	0.068	0.296	0.045	0.077	0.927	36.667
KEEL ecoli-0_vs_1	9.752	21.812	0	0.864	1	0.42	0.073	0.093	0.045	0.345	0.032	0.02	0.836	31.429
KEEL ecoli1	2.65	6.944	0	0.384	0.512	0.481	0.229	0.5	0.185	0.421	0.125	0.126	0.932	48
KEEL ecoli2	1.826	6.394	0	0.214	0.583	0.343	0.155	0.5	0.089	0.409	0.06	0.103	0.97	48
KEEL ecoli3	1.579	5.258	0	0.539	0.762	0.227	0.104	0.5	0.146	0.291	0.104	0.164	0.946	48
KEEL ecoli4	3.247	14.965	0	0.574	0.991	0.154	0.06	0.5	0.036	0.244	0.021	0.039	0.893	48

Table 76: Complexity measures for HDDT and KEEL datasets (II).

Dataset	F1	F1v	F2	F3	F4	L1	L2	L3	N1	N2	N3	N4	T1	T2
KEEL glass-0-1-2-3_vs_4-5	3.324	1.896	0.007	0.617	1	0.368	0.121	0.334	0.117	0.333	0.056	0.051	0.869	23.778
KEEL glass-0-1-4-6_vs_2	0.349	1.55	0.000000834	0.454	0.893	0.166	0.083	0.5	0.171	0.389	0.117	0.283	0.985	22.778
KEEL glass-0-1-5_vs_2	0.137	1.53	0.00000675	0.471	0.872	0.198	0.099	0.5	0.186	0.566	0.122	0.328	0.988	19.111
KEEL glass-0-1-6_vs_2	0.269	1.235	0.00000238	0.417	0.885	0.177	0.089	0.5	0.182	0.437	0.125	0.297	0.984	21.333
KEEL glass-0-1-6_vs_5	1.851	4.549	0	0.842	0.995	0.102	0.049	0.5	0.082	0.3	0.033	0.087	0.918	20.444
KEEL glass-0-4_vs_5	1.542	1.919	0	0.891	0.989	0.203	0.098	0.5	0.098	0.321	0.043	0.022	0.913	10.222
KEEL glass-0-6_vs_5	1.049	2.934	0	0.759	1	0.174	0.083	0.5	0.083	0.312	0.028	0.028	0.778	12
KEEL glass0	0.649	0.566	0.0000628	0.29	0.439	0.67	0.327	0.5	0.285	0.434	0.145	0.236	0.991	23.778
KEEL glass1	0.19	0.384	0.008	0.103	0.346	0.711	0.355	0.5	0.35	0.529	0.187	0.332	0.995	23.778
KEEL glass2	0.395	1.604	0.000000486	0.463	0.832	0.16	0.079	0.5	0.164	0.379	0.112	0.283	0.995	23.778
KEEL glass4	1.469	6.255	0.004	0.715	1	0.132	0.061	0.5	0.084	0.256	0.037	0.1	0.808	23.778
KEEL glass5	1.019	2.492	0	0.86	0.995	0.088	0.042	0.5	0.061	0.296	0.028	0.07	0.818	23.778
KEEL glass6	2.391	8.43	0.014	0.617	0.986	0.287	0.136	0.5	0.079	0.326	0.037	0.089	0.85	23.778
KEEL haberman	0.185	0.002	0.718	0.029	0.033	0.53	0.265	0.5	0.529	0.754	0.343	0.356	0.931	102
KEEL iris0	16.822	25.483	0.005	0.573	0.573	0.309	0	0	0.013	0.096	0	0	0.453	37.5
KEEL led7digit-0-2-4-5-6-	1.957	6.682	1	0	0	0.518	0.084	0.5	0.097	0.069	0.065	0.324	1	63.286
KEEL new-thyroid1	3.579	3.628	0.0000112	0.809	1	0.34	0.163	0.5	0.056	0.227	0.014	0.026	0.679	43
KEEL new-thyroid2	3.579	3.627	0.0000112	0.809	1	0.342	0.163	0.5	0.056	0.227	0.014	0.016	0.679	43
KEEL page-blocks-1-3_vs_4	1.547	5.437	0.00000476	0.826	1	0.133	0.059	0.5	0.013	0.128	0.002	0.058	0.818	47.2
KEEL pima	0.576	1.426	0.252	0.007	0.022	0.689	0.35	0.5	0.438	0.84	0.294	0.286	0.999	96
KEEL shuttle-c0-vs-c4	12.972	211.743	2.59E-010	1	1	0.416	0.000547	0.007	0.002	0.011	0.000547	0.002	0.21	203.222
KEEL shuttle-c2-vs-c4	12.132	352.963	0	0.938	0.938	0.093	0.047	0.5	0.031	0.086	0.008	0.016	0.744	14.333
KEEL vehicle0	1.119	12.501	0.000103	0.457	0.747	0.529	0.235	0.5	0.122	0.418	0.06	0.151	1	47
KEEL vehicle1	0.169	2.602	0.000309	0.06	0.217	0.522	0.257	0.5	0.372	0.739	0.258	0.356	0.999	47
KEEL vehicle2	0.381	4.143	0.003	0.228	0.696	0.527	0.258	0.5	0.092	0.536	0.039	0.168	0.998	47
KEEL vehicle3	0.185	1.921	0.000534	0.037	0.223	0.504	0.251	0.5	0.365	0.712	0.248	0.362	0.999	47
KEEL vowel0	2.458	3.46	0.018	0.404	0.908	0.3	0.091	0.5	0.022	0.138	0	0.19	0.931	76
KEEL wisconsin	3.568	0.067	0.217	0.122	0.243	0.457	0.032	0.01	0.057	0.332	0.04	0.035	0.801	75.889
KEEL yeast-0-2-5-6_vs_3-7	0.694	3.786	0.049	0.075	0.154	0.196	0.099	0.5	0.129	0.52	0.075	0.31	0.996	125.5
KEEL yeast-0-2-5-7-9_vs_3	1.635	7.773		0.077	0.204	0.282	0.099	0.5	0.078	0.423	0.042	0.183	0.98	125.5
KEEL yeast-0-3-5-9_vs_7-8	0.311	2.873	0	0.136	0.289	0.192	0.099	0.5	0.184	0.579	0.121	0.322	0.988	63.25
KEEL yeast-0-5-6-7-9_vs_4	1.051	3.466	0	0.078	0.286	0.198	0.097	0.5	0.15	0.505	0.1	0.251	0.987	66
KEEL yeast-1-2-8-9_vs_7	0.366	1.524	0	0.182	0.469	0.064	0.032	0.5	0.076	0.424	0.052	0.365	0.989	118.375
KEEL yeast-1-4-5-8_vs_7	0.176	0.778	0	0.172	0.408	0.087	0.043	0.5	0.097	0.501	0.058	0.4	0.994	86.625
KEEL yeast-1_vs_7	0.242	1.247	0	0.036	0.086	0.588	0.289	0.5	0.421	0.676	0.28	0.307	0.999	185.5
KEEL yeast-2_vs_4	0.353	2.494	0	0.227	0.532	0.132	0.065	0.5	0.118	0.54	0.07	0.329	0.993	65.571
KEEL yeast-2_vs_8	1.579	7.421	0	0.125	0.383	0.241	0.099	0.5	0.089	0.404	0.049	0.173	0.971	64.25
KEEL yeast1	1.142	24.937	0	0.164	0.471	0.074	0.041	0.5	0.052	0.392	0.031	0.253	0.979	60.25
KEEL yeast3	2.751	5.841	0	0.541	0.655	0.27	0.11	0.5	0.1	0.435	0.067	0.121	0.977	185.5
KEEL yeast4	1.252	3.927	0	0.092	0.311	0.069	0.034	0.5	0.065	0.374	0.042	0.3	0.979	185.5
KEEL yeast5	4.198	8.418	0	0.883	0.949	0.089	0.03	0.5	0.033	0.195	0.02	0.131	0.873	185.5
KEEL yeast6	1.967	5.544	0	0.254	0.67	0.049	0.024	0.5	0.041	0.338	0.027	0.177	0.972	185.5

Table 77: AUC for artificial datasets with noisy and borderline examples.

Dataset	E-SM100	DN+ E-SM100	E-SM	DN+ E-SM	E-RUS	DN+ E-RUS	E-RB	DN+ E-RB	MBo	DN+ MBo	Ba	DN+ Ba	SMBa	DN+ SMBa	Ba-SM100	DN+ Ba-SM100	Ba-SM	DN+ Ba-SM	Ba-RUS	DN+ Ba-RUS
03subcl5-600-5-0-BI	0.9610	0.9840	0.9491	0.9689	0.9478	0.9713	0.9664	0.9796	0.9735	0.9821	0.9697	0.9791	0.9696	0.9834	0.9686	0.9793	0.9645	0.9793	0.9419	0.9671
03subcl5-600-5-30-BI	0.8970	0.9100	0.8958	0.8972	0.8873	0.8981	0.8987	0.9054	0.8687	0.8853	0.9041	0.8990	0.9082	0.9113	0.9069	0.9060	0.9044	0.9072	0.8850	0.8953
03subcl5-600-5-50-BI	0.8799	0.8870	0.8834	0.8791	0.8637	0.8766	0.8826	0.8850	0.8610	0.8554	0.8825	0.8814	0.8863	0.8887	0.8870	0.8871	0.8863	0.8890	0.8723	0.8771
03subcl5-600-5-60-BI	0.8680	0.8741	0.8650	0.8708	0.8553	0.8651	0.8678	0.8738	0.8395	0.8523	0.8635	0.8669	0.8705	0.8740	0.8692	0.8742	0.8707	0.8742	0.8592	0.8625
03subcl5-600-5-70-BI	0.8567	0.8604	0.8578	0.8502	0.8404	0.8518	0.8538	0.8613	0.8316	0.8426	0.8518	0.8567	0.8599	0.8606	0.8577	0.8593	0.8599	0.8642	0.8468	0.8559
03subcl5-800-7-0-BI	0.9630	0.9666	0.9558	0.9856	0.9369	0.9709	0.9711	0.9810	0.9678	0.9817	0.9694	0.9805	0.9710	0.9865	0.9701	0.9821	0.9671	0.9828	0.9370	0.9637
03subcl5-800-7-30-BI	0.9105	0.9045	0.9126	0.9201	0.8991	0.9088	0.9131	0.9193	0.8857	0.8933	0.9167	0.9120	0.9153	0.9192	0.9185	0.9181	0.9144	0.9175	0.8945	0.9077
03subcl5-800-7-50-BI	0.8726	0.8695	0.8725	0.8779	0.8673	0.8649	0.8772	0.8758	0.8341	0.8479	0.8736	0.8691	0.8731	0.8760	0.8764	0.8762	0.8752	0.8776	0.8673	0.8689
03subcl5-800-7-60-BI	0.8645	0.8601	0.8736	0.8799	0.8595	0.8670	0.8713	0.8767	0.8409	0.8553	0.8668	0.8715	0.8741	0.8778	0.8702	0.8771	0.8729	0.8800	0.8572	0.8650
03subcl5-800-7-70-BI	0.8450	0.8438	0.8468	0.8543	0.8330	0.8379	0.8487	0.8493	0.8218	0.8238	0.8431	0.8414	0.8464	0.8509	0.8453	0.8489	0.8443	0.8488	0.8327	0.8377
04clover5z-600-5-0-BI	0.8996	0.9563	0.9131	0.9320	0.8911	0.9399	0.9143	0.9507	0.9397	0.9655	0.9109	0.9538	0.9365	0.9595	0.9280	0.9545	0.9350	0.9527	0.8877	0.9320
04clover5z-600-5-30-BI	0.8685	0.9195	0.8764	0.9042	0.8694	0.9098	0.8848	0.9179	0.8813	0.9211	0.8879	0.9161	0.9062	0.9223	0.8979	0.9181	0.9064	0.9195	0.8786	0.9042
04clover5z-600-5-50-BI	0.8398	0.8801	0.8507	0.8642	0.8548	0.8808	0.8644	0.8844	0.8414	0.8879	0.8610	0.8871	0.8699	0.8845	0.8684	0.8875	0.8751	0.8860	0.8579	0.8802
04clover5z-600-5-60-BI	0.8366	0.8711	0.8510	0.8579	0.8375	0.8656	0.8514	0.8713	0.8364	0.8541	0.8498	0.8688	0.8603	0.8683	0.8543	0.8700	0.8633	0.8709	0.8445	0.8624
04clover5z-600-5-70-BI	0.8273	0.8534	0.8369	0.8483	0.8334	0.8523	0.8436	0.8591	0.8106	0.8485	0.8360	0.8523	0.8462	0.8572	0.8470	0.8583	0.8535	0.8606	0.8388	0.8543
04clover5z-800-7-0-BI	0.8955	0.9314	0.9067	0.9487	0.8941	0.9318	0.9100	0.9433	0.9495	0.9670	0.9077	0.9515	0.9209	0.9507	0.9177	0.9527	0.9187	0.9464	0.8888	0.9225
04clover5z-800-7-30-BI	0.8612	0.8832	0.8650	0.9031	0.8646	0.8931	0.8766	0.9035	0.8734	0.9021	0.8723	0.9015	0.8892	0.9063	0.8820	0.9052	0.8888	0.9051	0.8650	0.8883
04clover5z-800-7-50-BI	0.8306	0.8601	0.8485	0.8775	0.8458	0.8704	0.8569	0.8764	0.8492	0.8767	0.8483	0.8761	0.8626	0.8771	0.8629	0.8842	0.8701	0.8830	0.8501	0.8708
04clover5z-800-7-60-BI	0.8270	0.8419	0.8371	0.8626	0.8361	0.8621	0.8466	0.8641	0.8276	0.8541	0.8385	0.8689	0.8512	0.8634	0.8483	0.8703	0.8579	0.8686	0.8427	0.8615
04clover5z-800-7-70-BI	0.8236	0.8360	0.8341	0.8534	0.8316	0.8521	0.8433	0.8558	0.8152	0.8432	0.8320	0.8501	0.8461	0.8547	0.8402	0.8544	0.8479	0.8581	0.8380	0.8492
paw02a-600-5-0-BI	0.9230	0.9842	0.9252	0.9529	0.9347	0.9793	0.9465	0.9820	0.9631	0.9874	0.9125	0.9866	0.9534	0.9844	0.9578	0.9853	0.9608	0.9833	0.9405	0.9756
paw02a-600-5-30-BI	0.8770	0.9354	0.8902	0.9113	0.9017	0.9364	0.9130	0.9383	0.9138	0.9300	0.9105	0.9391	0.9140	0.9370	0.9198	0.9385	0.9217	0.9386	0.9081	0.9374
paw02a-600-5-50-BI	0.8829	0.9263	0.8890	0.9047	0.9022	0.9279	0.9102	0.9302	0.9117	0.9202	0.8894	0.9306	0.9169	0.9273	0.9163	0.9299	0.9200	0.9295	0.9099	0.9257
paw02a-600-5-60-BI	0.8605	0.9069	0.8655	0.9012	0.8736	0.9031	0.8856	0.9077	0.8715	0.8928	0.8672	0.9078	0.8910	0.9054	0.8933	0.9108	0.8971	0.9102	0.8861	0.9061
paw02a-600-5-70-BI	0.8736	0.9040	0.8776	0.8871	0.8979	0.9076	0.8968	0.9083	0.8843	0.9005	0.8963	0.9079	0.9001	0.9077	0.8983	0.9090	0.8994	0.9058	0.8963	0.9071
paw02a-800-7-0-BI	0.9248	0.9566	0.9315	0.9863	0.9589	0.9830	0.9729	0.9862	0.9814	0.9892	0.9672	0.9902	0.9660	0.9875	0.9695	0.9897	0.9655	0.9867	0.9512	0.9770
paw02a-800-7-30-BI	0.8786	0.9110	0.8974	0.9313	0.9021	0.9323	0.9153	0.9361	0.9194	0.9273	0.9092	0.9354	0.9125	0.9301	0.9166	0.9362	0.9217	0.9358	0.9100	0.9342
paw02a-800-7-50-BI	0.8628	0.8805	0.8764	0.9085	0.8891	0.9115	0.8926	0.9130	0.8989	0.9112	0.8917	0.9176	0.8959	0.9085	0.8975	0.9170	0.9024	0.9165	0.8936	0.9125
paw02a-800-7-60-BI	0.8361	0.8612	0.8468	0.8817	0.8573	0.8864	0.8659	0.8896	0.8612	0.8765	0.8617	0.8884	0.8679	0.8833	0.8703	0.8887	0.8756	0.8896	0.8691	0.8886
paw02a-800-7-70-BI	0.8350	0.8548	0.8438	0.8708	0.8598	0.8765	0.8616	0.8759	0.8576	0.8668	0.8544	0.8769	0.8619	0.8729	0.8608	0.8776	0.8667	0.8796	0.8642	0.8777

Dataset	Ba-RB	DN+ Ba-RB	ABo1	DN+ ABo1	ABo2	DN+ ABo2	MBo	DN+ MBo	SMBo	DN+ SMBo	RAMOBo	DN+ RAMOBo	RUSBo	DN+ RUSBo	RBBo	DN+ RBBo
03subcl5-600-5-0-BI	0.9619	0.9744	0.9732	0.9821	0.9786	0.9909	0.9735	0.9821	0.9822	0.9918	0.9881	0.9920	0.9809	0.9846	0.9852	0.9893
03subcl5-600-5-30-BI	0.8958	0.9013	0.8605	0.8706	0.8955	0.8727	0.8687	0.8853	0.8895	0.8795	0.8933	0.8890	0.8949	0.8920	0.8856	0.8807
03subcl5-600-5-50-BI	0.8813	0.8844	0.8609	0.8370	0.8725	0.8421	0.8610	0.8554	0.8706	0.8554	0.8690	0.8601	0.8778	0.8653	0.8687	0.8563
03subcl5-600-5-60-BI	0.8664	0.8699	0.8395	0.8279	0.8516	0.8302	0.8395	0.8523	0.8564	0.8449	0.8648	0.8492	0.8586	0.8535	0.8582	0.8425
03subcl5-600-5-70-BI	0.8579	0.8598	0.8289	0.8247	0.8414	0.8277	0.8316	0.8426	0.8519	0.8384	0.8539	0.8412	0.8529	0.8451	0.8464	0.8385
03subcl5-800-7-0-BI	0.9687	0.9769	0.9671	0.9831	0.9740	0.9881	0.9678	0.9817	0.9745	0.9891	0.9830	0.9935	0.9768	0.9872	0.9859	0.9896
03subcl5-800-7-30-BI	0.9112	0.9137	0.8761	0.8813	0.8951	0.8797	0.8857	0.8933	0.9043	0.8901	0.9060	0.8960	0.9075	0.8981	0.8944	0.8921
03subcl5-800-7-50-BI	0.8750	0.8745	0.8272	0.8343	0.8577	0.8317	0.8341	0.8479	0.8632	0.8406	0.8688	0.8474	0.8672	0.8484	0.8518	0.8445
03subcl5-800-7-60-BI	0.8702	0.8774	0.8397	0.8351	0.8562	0.8373	0.8409	0.8553	0.8648	0.8449	0.8627	0.8569	0.8624	0.8565	0.8561	0.8506
03subcl5-800-7-70-BI	0.8444	0.8447	0.8203	0.8023	0.8300	0.8048	0.8218	0.8238	0.8361	0.8222	0.8387	0.8311	0.8397	0.8341	0.8296	0.8220
04clover5z-600-5-0-BI	0.9177	0.9472	0.9306	0.9610	0.9211	0.9680	0.9397	0.9655	0.9373	0.9718	0.9532	0.9723	0.9307	0.9638	0.9567	0.9731
04clover5z-600-5-30-BI	0.8920	0.9131	0.8764	0.9127	0.8826	0.9179	0.8813	0.9211	0.8924	0.9254	0.9078	0.9278	0.8873	0.9220	0.9109	0.9257
04clover5z-600-5-50-BI	0.8684	0.8846	0.8395	0.8725	0.8440	0.8729	0.8414	0.8879	0.8577	0.8794	0.8720	0.8889	0.8679	0.8925	0.8766	0.8823
04clover5z-600-5-60-BI	0.8577	0.8649	0.8344	0.8439	0.8402	0.8466	0.8364	0.8541	0.8505	0.8560	0.8622	0.8627	0.8546	0.8676	0.8580	0.8583
04clover5z-600-5-70-BI	0.8488	0.8617	0.8106	0.8323	0.8263	0.8377	0.8106	0.8485	0.8291	0.8505	0.8412	0.8566	0.8423	0.8540	0.8416	0.8524
04clover5z-800-7-0-BI	0.9136	0.9408	0.9530	0.9678	0.9206	0.9657	0.9495	0.9670	0.9344	0.9659	0.9467	0.9648	0.9310	0.9588	0.9585	0.9699
04clover5z-800-7-30-BI	0.8820	0.9007	0.8700	0.8920	0.8700	0.8932	0.8734	0.9021	0.8796	0.9030	0.8892	0.9101	0.8762	0.9031	0.8904	0.9056
04clover5z-800-7-50-BI	0.8626	0.8794	0.8460	0.8583	0.8472	0.8652	0.8492	0.8541	0.8560	0.8787	0.8642	0.8835	0.8542	0.8822	0.8703	0.8778
04clover5z-800-7-60-BI	0.8521	0.8686	0.8259	0.8329	0.8385	0.8410	0.8276	0.8541	0.8417	0.8554	0.8523	0.8606	0.8512	0.8678	0.8534	0.8563
04clover5z-800-7-70-BI	0.8437	0.8551	0.8184	0.8226	0.8235	0.8265	0.8152	0.8432	0.8343	0.8399	0.8398	0.8473	0.8429	0.8525	0.8396	0.8457
paw02a-600-5-0-BI	0.9564	0.9804	0.9621	0.9847	0.9693	0.9875	0.9631	0.9874	0.9792	0.9879	0.9797	0.9885	0.9831	0.9917	0.9863	0.9903
paw02a-600-5-30-BI	0.9188	0.9377	0.9084	0.9218	0.9069	0.9274	0.9138	0.9300	0.9215	0.9287	0.9288	0.9294	0.9295	0.9373	0.9305	0.9321
paw02a-600-5-50-BI	0.9162	0.9297	0.9031	0.9105	0.8976	0.9129	0.9117	0.9202	0.9066	0.9158	0.9177	0.9208	0.9250	0.9300	0.9195	0.9182
paw02a-600-5-60-BI	0.8956	0.9076	0.8705	0.8719	0.8743	0.8750	0.8715	0.8928	0.8741	0.8838	0.8884	0.8932	0.8953	0.9084	0.8882	0.8887
paw02a-600-5-70-BI	0.8986	0.9073	0.8811	0.8899	0.8832	0.8921	0.8843	0.9005	0.8942	0.8977	0.8957	0.9039	0.9063	0.9119	0.8998	0.8990
paw02a-800-7-0-BI	0.9689	0.9851	0.9846	0.9889	0.9786	0.9913	0.9814	0.9892	0.9807	0.9918	0.9854	0.9918	0.9879	0.9928	0.9896	0.9923
paw02a-800-7-30-BI	0.9231	0.9394	0.9107	0.9253	0.9212	0.9259	0.9194	0.9273	0.9179	0.9259	0.9278	0.9300	0.9308	0.9360	0.9263	0.9293
paw02a-800-7-50-BI	0.9052	0.9155	0.8885	0.9032	0.8958	0.9017	0.8989	0.9112	0.8977	0.9054	0.9133	0.9116	0.9121	0.9188	0.9063	0.9054
paw02a-800-7-60-BI	0.8779	0.8924	0.8578	0.8555	0.8596	0.8570	0.8612	0.8765	0.8669	0.8684	0.8761	0.8741	0.8776	0.8913	0.8742	0.8736
paw02a-800-7-70-BI	0.8663	0.8800	0.8452	0.8503	0.8522	0.8479	0.8576	0.8668	0.8654	0.8620	0.8708	0.8739	0.8704	0.8826	0.8724	0.8676

Table 78: F-measure for artificial datasets with noisy and borderline examples.

Dataset	E-SM100	DN+E-SM100	E-SM	DN+E-SM	E-RUS	DN+E-RUS	E-RB	DN+E-RB	Ba	DN+Ba	SMBa	DN+SMBa	Ba-SM100	DN+Ba-SM100	Ba-SM	DN+Ba-SM	Ba-RUS	DN+Ba-RUS
03subcl5-600-5-0-BI	0.8598	0.8639	0.8154	0.8380	0.6921	0.7458	0.7730	0.7875	0.8691	0.8502	0.8020	0.8212	0.8406	0.8346	0.8014	0.8267	0.6965	0.7497
03subcl5-600-5-30-BI	0.6402	0.6253	0.5891	0.5884	0.5354	0.5516	0.5626	0.5747	0.5625	0.5692	0.5870	0.5892	0.6140	0.6209	0.5960	0.6046	0.5489	0.5593
03subcl5-600-5-50-BI	0.5736	0.5721	0.5622	0.5536	0.5332	0.5392	0.5449	0.5554	0.3989	0.4308	0.5589	0.5637	0.5647	0.5453	0.5676	0.5759	0.5288	0.5429
03subcl5-600-5-60-BI	0.5527	0.5415	0.5593	0.5536	0.5326	0.5505	0.5543	0.5554	0.3113	0.3855	0.5574	0.5346	0.5309	0.5136	0.5490	0.5313	0.5294	0.5430
03subcl5-600-5-70-BI	0.5335	0.4918	0.5452	0.5210	0.5110	0.5358	0.5495	0.5513	0.2098	0.3338	0.5475	0.5346	0.4967	0.4577	0.5393	0.5298	0.5224	0.5482
03subcl5-800-7-0-BI	0.8385	0.8103	0.8048	0.8148	0.6177	0.6536	0.7251	0.7374	0.8467	0.8134	0.7885	0.8137	0.8502	0.8239	0.7663	0.7917	0.6086	0.6469
03subcl5-800-7-30-BI	0.6050	0.5918	0.5638	0.5674	0.4560	0.4907	0.5439	0.5531	0.5411	0.5011	0.5579	0.5674	0.5926	0.5928	0.5794	0.5896	0.4819	0.5235
03subcl5-800-7-50-BI	0.4703	0.4674	0.4808	0.4828	0.4282	0.4383	0.4715	0.4646	0.2761	0.3064	0.4743	0.4762	0.4601	0.4686	0.4874	0.4870	0.4354	0.4613
03subcl5-800-7-60-BI	0.4912	0.4129	0.4859	0.4855	0.4252	0.4601	0.4755	0.4737	0.0942	0.2300	0.4900	0.4818	0.4233	0.4414	0.4692	0.4672	0.4364	0.4687
03subcl5-800-7-70-BI	0.4091	0.3851	0.4472	0.4460	0.4136	0.4324	0.4442	0.4447	0.0323	0.1458	0.4409	0.4358	0.3663	0.3521	0.4313	0.4257	0.4143	0.4324
04clover5z-600-5-0-BI	0.6141	0.7624	0.6607	0.7320	0.5295	0.6197	0.6139	0.7169	0.5463	0.6590	0.6810	0.7523	0.6783	0.7394	0.7020	0.7509	0.5609	0.6529
04clover5z-600-5-30-BI	0.5669	0.6409	0.5989	0.6361	0.5081	0.5864	0.5927	0.6405	0.4169	0.4963	0.6235	0.6585	0.5831	0.6115	0.6398	0.6578	0.5414	0.5927
04clover5z-600-5-50-BI	0.5421	0.5698	0.5654	0.5818	0.5006	0.5691	0.5531	0.5952	0.2850	0.4386	0.5752	0.5963	0.5498	0.5554	0.5785	0.5807	0.5281	0.5697
04clover5z-600-5-60-BI	0.5131	0.5464	0.5341	0.5493	0.4856	0.5334	0.5199	0.5418	0.3275	0.3930	0.5391	0.5432	0.5029	0.4984	0.5340	0.5418	0.5003	0.5269
04clover5z-600-5-70-BI	0.5154	0.5257	0.5274	0.5399	0.4547	0.5129	0.5110	0.5441	0.2830	0.3990	0.5265	0.5425	0.4943	0.4941	0.5278	0.5450	0.4955	0.5237
04clover5z-800-7-0-BI	0.5731	0.7043	0.6095	0.7205	0.4600	0.5348	0.5742	0.6811	0.4695	0.6000	0.6736	0.7288	0.6541	0.7238	0.6950	0.7251	0.4795	0.5662
04clover5z-800-7-30-BI	0.4837	0.5427	0.5088	0.5538	0.4255	0.4829	0.5002	0.5348	0.2427	0.3961	0.5346	0.5666	0.5092	0.5283	0.5422	0.5582	0.4482	0.4966
04clover5z-800-7-50-BI	0.3531	0.4879	0.4961	0.5175	0.4166	0.4606	0.4701	0.5182	0.1608	0.2962	0.4952	0.5118	0.4546	0.4671	0.4959	0.5220	0.4386	0.4850
04clover5z-800-7-60-BI	0.3457	0.4168	0.4643	0.4867	0.4033	0.4493	0.4486	0.4845	0.0911	0.2148	0.4887	0.4893	0.3768	0.3862	0.4920	0.4866	0.4339	0.4732
04clover5z-800-7-70-BI	0.3950	0.3867	0.4606	0.4855	0.3812	0.4439	0.4523	0.4663	0.0527	0.2440	0.4607	0.4810	0.3834	0.3863	0.4532	0.4746	0.4284	0.4451
paw02a-600-5-0-BI	0.7525	0.8722	0.7766	0.8489	0.6813	0.7095	0.7053	0.8313	0.8344	0.8740	0.7976	0.8612	0.8222	0.8734	0.8087	0.8755	0.6868	0.7200
paw02a-600-5-30-BI	0.6276	0.7035	0.6464	0.6837	0.5819	0.6209	0.6360	0.6887	0.6486	0.7002	0.6607	0.6882	0.6661	0.6878	0.6705	0.7047	0.6227	0.6608
paw02a-600-5-50-BI	0.6198	0.6596	0.6298	0.6579	0.5844	0.6178	0.5954	0.6439	0.6160	0.6320	0.6343	0.6533	0.6588	0.6606	0.6532	0.6637	0.5930	0.6284
paw02a-600-5-60-BI	0.5696	0.6055	0.5755	0.6027	0.5498	0.5779	0.5693	0.5961	0.4865	0.5433	0.5910	0.6026	0.5729	0.6005	0.5898	0.6003	0.5623	0.5913
paw02a-600-5-70-BI	0.6022	0.6064	0.6020	0.6184	0.5720	0.5944	0.5841	0.6107	0.4775	0.5007	0.6088	0.6222	0.5986	0.5844	0.6183	0.6226	0.5874	0.6165
paw02a-800-7-0-BI	0.7137	0.8074	0.7143	0.8721	0.6277	0.6577	0.6568	0.8240	0.8134	0.8504	0.8372	0.8642	0.8298	0.8702	0.8285	0.8647	0.6282	0.6806
paw02a-800-7-30-BI	0.5820	0.6397	0.5667	0.6310	0.5036	0.5447	0.5459	0.6029	0.5544	0.6772	0.5886	0.6224	0.6477	0.6885	0.6026	0.6460	0.5327	0.5689
paw02a-800-7-50-BI	0.5397	0.5681	0.5380	0.5766	0.4913	0.5199	0.5148	0.5624	0.4206	0.5412	0.5530	0.5673	0.5756	0.5889	0.5752	0.5823	0.5049	0.5382
paw02a-800-7-60-BI	0.4481	0.5100	0.4847	0.5279	0.4489	0.4766	0.4688	0.5210	0.1880	0.4528	0.4990	0.5285	0.5160	0.5265	0.5235	0.5426	0.4685	0.4932
paw02a-800-7-70-BI	0.4459	0.4696	0.4913	0.5170	0.4634	0.4787	0.4751	0.5012	0.2007	0.3710	0.5078	0.5055	0.4767	0.4574	0.5164	0.4994	0.4768	0.4917

Dataset	Ba-RB	DN+Ba-RB	ABo1	DN+ABo1	ABo2	DN+ABo2	MBo	DN+MBo	SMBo	DN+SMBo	RAMOBo	DN+RAMOBo	RUSBo	DN+RUSBo	RBBo	DN+RBBo
03subcl5-600-5-0-BI	0.7648	0.7843	0.8891	0.8757	0.9293	0.9276	0.8885	0.8845	0.9229	0.9260	0.9187	0.9210	0.8658	0.8656	0.8988	0.8877
03subcl5-600-5-30-BI	0.5745	0.5829	0.5327	0.5966	0.5934	0.6079	0.5430	0.5946	0.6211	0.6187	0.6303	0.6229	0.5742	0.5942	0.6086	0.6159
03subcl5-600-5-50-BI	0.5542	0.5717	0.3830	0.4873	0.3153	0.4920	0.3804	0.4927	0.5189	0.5199	0.5589	0.5429	0.5490	0.5363	0.5034	0.5080
03subcl5-600-5-60-BI	0.5487	0.5510	0.3031	0.4490	0.2821	0.4357	0.3031	0.4475	0.4962	0.4868	0.5191	0.5121	0.5483	0.5206	0.4446	0.4807
03subcl5-600-5-70-BI	0.5437	0.5418	0.2422	0.3959	0.2395	0.3868	0.2406	0.3819	0.4380	0.4294	0.4818	0.4853	0.5504	0.4863	0.3835	0.4268
03subcl5-800-7-0-BI	0.7368	0.7560	0.9027	0.8784	0.9084	0.9151	0.8980	0.8823	0.9151	0.9151	0.9131	0.9115	0.8317	0.8434	0.8920	0.8782
03subcl5-800-7-30-BI	0.5772	0.5845	0.5628	0.5600	0.4712	0.5613	0.5622	0.5579	0.5988	0.5979	0.6257	0.6170	0.5585	0.5415	0.5964	0.5928
03subcl5-800-7-50-BI	0.4891	0.4873	0.4086	0.4068	0.3170	0.3974	0.4003	0.4029	0.4058	0.4166	0.4860	0.4646	0.4658	0.4464	0.4353	0.4416
03subcl5-800-7-60-BI	0.4830	0.4589	0.3016	0.3899	0.2042	0.3798	0.2947	0.3893	0.3076	0.3674	0.4130	0.4554	0.4685	0.4565	0.3886	0.4530
03subcl5-800-7-70-BI	0.4447	0.4227	0.2201	0.3272	0.1115	0.3203	0.2192	0.3035	0.2021	0.3821	0.3646	0.3970	0.4422	0.4284	0.2924	0.3810
04clover5z-600-5-0-BI	0.6354	0.7246	0.6370	0.7706	0.6363	0.7765	0.6519	0.7653	0.7089	0.7953	0.7319	0.7814	0.6772	0.7751	0.7584	0.7993
04clover5z-600-5-30-BI	0.5993	0.6373	0.4754	0.6027	0.4759	0.6132	0.4874	0.6104	0.5515	0.6492	0.6289	0.6855	0.5943	0.6512	0.6022	0.6476
04clover5z-600-5-50-BI	0.5503	0.5878	0.3581	0.5344	0.3147	0.5248	0.3640	0.5233	0.4848	0.5581	0.5517	0.5776	0.5736	0.6048	0.4935	0.5538
04clover5z-600-5-60-BI	0.5271	0.5301	0.3951	0.4545	0.2726	0.4672	0.3923	0.4656	0.4379	0.5004	0.5411	0.5182	0.5273	0.5381	0.4627	0.5095
04clover5z-600-5-70-BI	0.5253	0.5437	0.2549	0.4401	0.2071	0.4286	0.2549	0.4351	0.4053	0.4919	0.4933	0.5118	0.5216	0.5264	0.4184	0.4971
04clover5z-800-7-0-BI	0.6735	0.7241	0.7026	0.7386	0.6516	0.7333	0.6894	0.7249	0.6996	0.7544	0.7375	0.7714	0.6487	0.7222	0.7476	0.7774
04clover5z-800-7-30-BI	0.5205	0.5554	0.4712	0.5065	0.4283	0.5172	0.4679	0.5062	0.4751	0.5472	0.5291	0.5840	0.5040	0.5774	0.5368	0.5716
04clover5z-800-7-50-BI	0.4794	0.5066	0.3386	0.4089	0.2504	0.4031	0.3257	0.4027	0.3506	0.4698	0.4485	0.4939	0.4812	0.5097	0.4172	0.4627
04clover5z-800-7-60-BI	0.4729	0.4778	0.3015	0.3500	0.2245	0.3223	0.3148	0.3392	0.3248	0.4040	0.4278	0.4241	0.4715	0.4622	0.3619	0.4108
04clover5z-800-7-70-BI	0.4382	0.4446	0.2398	0.3257	0.1692	0.3330	0.2262	0.3351	0.2818	0.3821	0.3938	0.4219	0.4483	0.4463	0.3263	0.3993
paw02a-600-5-0-BI	0.7201	0.8230	0.8107	0.8866	0.8328	0.8891	0.8084	0.8877	0.8596	0.8773	0.8662	0.8823	0.8599	0.8948	0.8739	0.8910
paw02a-600-5-30-BI	0.6644	0.6860	0.6804	0.7093	0.5601	0.7145	0.6983	0.7218	0.6905	0.7144	0.7080	0.7155	0.6809	0.7034	0.7127	0.7184
paw02a-600-5-50-BI	0.6325	0.6574	0.6116	0.6387	0.6074	0.6484	0.6235	0.6542	0.6337	0.6515	0.6518	0.6746	0.6505	0.6667	0.6643	0.6624
paw02a-600-5-60-BI	0.5838	0.6068	0.4838	0.5878	0.5267	0.5768	0.4742	0.5842	0.5532	0.5975	0.5878	0.6052	0.5974	0.6117	0.5730	0.6041
paw02a-600-5-70-BI	0.6060	0.6251	0.5084	0.5692	0.4993	0.5683	0.5116	0.5680	0.5807	0.5875	0.6066	0.6095	0.6207	0.6344	0.5758	0.5900
paw02a-800-7-0-BI	0.7319	0.8460	0.8682	0.8738	0.8535	0.8731	0.8642	0.8720	0.8696	0.8732	0.8731	0.8778	0.8618	0.8733	0.8758	0.8793
paw02a-800-7-30-BI	0.6070	0.6497	0.5917	0.6684	0.6329	0.6630	0.5920	0.6586	0.6595	0.6780	0.6608	0.6733	0.6147	0.6313	0.6647	0.6703
paw02a-800-7-50-BI	0.5690	0.5805	0.5638	0.5744	0.5364	0.5759	0.5662	0.5803	0.5808	0.5912	0.6062	0.6125	0.5815	0.5763	0.5843	0.5921
paw02a-800-7-60-BI	0.5203	0.5381	0.4910	0.5067	0.5065	0.5065	0.4977	0.5118	0.4584	0.5317	0.5305	0.5428	0.5058	0.5243	0.5128	0.5246
paw02a-800-7-70-BI	0.5047	0.4939	0.4235	0.4377	0.3850	0.4469	0.4437	0.4421	0.4358	0.4736	0.4758	0.4812	0.5087	0.4961	0.4707	0.4724

Table 79: G-mean for artificial datasets with noisy and borderline examples.

Dataset	E-SM100	DN+E-SM100	E-SM	DN+E-SM	E-RUS	DN+E-RUS	E-RB	DN+E-RB	Ba	DN+Ba	SMBa	DN+SMBa	Ba-SM100	DN+Ba-SM100	Ba-SM	DN+Ba-SM	Ba-RUS	DN+Ba-RUS
03subcl5-600-5-0-BI	0.9468	0.9469	0.9386	0.9352	0.9001	0.9210	0.9301	0.9346	0.9473	0.9267	0.9373	0.9393	0.9465	0.9320	0.9345	0.9373	0.9031	0.9225
03subcl5-600-5-30-BI	0.8091	0.7899	0.8038	0.7937	0.7970	0.8064	0.8040	0.8054	0.6809	0.6846	0.8038	0.8017	0.7850	0.7716	0.8014	0.7984	0.8016	0.8011
03subcl5-600-5-50-BI	0.7705	0.7522	0.7908	0.7731	0.8028	0.8032	0.8003	0.7949	0.5434	0.5711	0.7910	0.7832	0.7422	0.7113	0.7789	0.7731	0.7941	0.7937
03subcl5-600-5-60-BI	0.7732	0.7473	0.7961	0.7895	0.7820	0.8145	0.8089	0.8006	0.4698	0.5469	0.8010	0.7827	0.7344	0.6985	0.7727	0.7461	0.7957	0.7992
03subcl5-600-5-70-BI	0.7746	0.6955	0.7883	0.7555	0.7689	0.8005	0.8080	0.7991	0.3573	0.4929	0.7924	0.7673	0.6973	0.6461	0.7673	0.7447	0.7905	0.8029
03subcl5-800-7-0-BI	0.9206	0.8968	0.9169	0.9257	0.8989	0.9116	0.9288	0.9325	0.9031	0.8754	0.9254	0.9330	0.9157	0.9043	0.9215	0.9230	0.8949	0.9066
03subcl5-800-7-30-BI	0.7748	0.7427	0.8112	0.8100	0.8027	0.8220	0.8324	0.8285	0.6479	0.6192	0.8132	0.8130	0.7415	0.7331	0.8106	0.8059	0.8127	0.8294
03subcl5-800-7-50-BI	0.6904	0.6808	0.7669	0.7654	0.7796	0.7832	0.7865	0.7654	0.4144	0.4589	0.7589	0.7534	0.6581	0.6532	0.7483	0.7385	0.7832	0.7877
03subcl5-800-7-60-BI	0.7456	0.6358	0.7859	0.7794	0.7794	0.8059	0.8054	0.7910	0.1988	0.3722	0.7883	0.7689	0.6280	0.6201	0.7484	0.7320	0.7869	0.8005
03subcl5-800-7-70-BI	0.6728	0.6084	0.7619	0.7501	0.7683	0.7837	0.7841	0.7648	0.0820	0.2821	0.7509	0.7317	0.5671	0.5518	0.7234	0.7056	0.7666	0.7757
04clover5z-600-5-0-BI	0.7984	0.8684	0.8526	0.8816	0.7938	0.8585	0.8397	0.8881	0.6508	0.7423	0.8705	0.8969	0.7985	0.8381	0.8648	0.8835	0.8122	0.8657
04clover5z-600-5-30-BI	0.7817	0.8023	0.8260	0.8305	0.7774	0.8373	0.8318	0.8495	0.5562	0.6211	0.8421	0.8529	0.7511	0.7590	0.8372	0.8331	0.7988	0.8293
04clover5z-600-5-50-BI	0.7608	0.7548	0.8028	0.8041	0.7700	0.8239	0.7972	0.8172	0.4184	0.5790	0.8083	0.8086	0.7268	0.7215	0.7931	0.7791	0.7861	0.8069
04clover5z-600-5-60-BI	0.7529	0.7323	0.7831	0.7760	0.7540	0.7935	0.7776	0.7829	0.4729	0.5430	0.7810	0.7678	0.6919	0.6718	0.7580	0.7506	0.7614	0.7724
04clover5z-600-5-70-BI	0.7487	0.7224	0.7740	0.7729	0.7237	0.7740	0.7656	0.7819	0.4156	0.5471	0.7684	0.7705	0.6925	0.6730	0.7564	0.7553	0.7560	0.7709
04clover5z-800-7-0-BI	0.7510	0.8350	0.8527	0.8892	0.7975	0.8428	0.8475	0.8838	0.5858	0.6882	0.8778	0.8926	0.7795	0.8227	0.8748	0.8818	0.7981	0.8492
04clover5z-800-7-30-BI	0.7304	0.7320	0.7906	0.7981	0.7702	0.8075	0.8008	0.8102	0.3913	0.5327	0.8060	0.8036	0.6912	0.6840	0.7876	0.7821	0.7732	0.7970
04clover5z-800-7-50-BI	0.5764	0.6981	0.7974	0.7896	0.7660	0.7972	0.7876	0.8090	0.2687	0.4448	0.7860	0.7752	0.6436	0.6337	0.7620	0.7639	0.7733	0.7966
04clover5z-800-7-60-BI	0.5535	0.6375	0.7757	0.7717	0.7514	0.7916	0.7796	0.7895	0.2097	0.3713	0.7895	0.7676	0.5726	0.5760	0.7650	0.7425	0.7728	0.7904
04clover5z-800-7-70-BI	0.6400	0.6016	0.7785	0.7770	0.7291	0.7863	0.7773	0.7755	0.1177	0.4018	0.7702	0.7644	0.5776	0.5718	0.7382	0.7346	0.7651	0.7641
paw02a-600-5-0-BI	0.8901	0.9274	0.9050	0.9216	0.8839	0.8952	0.8484	0.9296	0.7629	0.8922	0.9173	0.9325	0.9106	0.9215	0.9149	0.9050	0.8863	0.9002
paw02a-600-5-30-BI	0.8103	0.8213	0.8405	0.8451	0.8291	0.8490	0.8277	0.8551	0.7402	0.7807	0.8492	0.8460	0.8077	0.8008	0.8415	0.8424	0.8466	0.8608
paw02a-600-5-50-BI	0.8204	0.8084	0.8384	0.8399	0.8348	0.8526	0.8125	0.8464	0.6185	0.7412	0.8409	0.8377	0.8121	0.7945	0.8333	0.8258	0.8285	0.8459
paw02a-600-5-60-BI	0.7947	0.7742	0.8051	0.8059	0.8094	0.8237	0.8305	0.8182	0.6099	0.6603	0.8145	0.8091	0.7524	0.7460	0.8007	0.7873	0.8110	0.8202
paw02a-600-5-70-BI	0.8180	0.7904	0.8345	0.8281	0.8262	0.8406	0.8200	0.8374	0.4500	0.6276	0.8360	0.8326	0.7764	0.7430	0.8267	0.8150	0.8302	0.8451
paw02a-800-7-0-BI	0.8981	0.8870	0.9022	0.9381	0.8939	0.9070	0.8989	0.9388	0.8669	0.8836	0.9347	0.9412	0.8950	0.9122	0.9186	0.9256	0.8857	0.9121
paw02a-800-7-30-BI	0.8143	0.8017	0.8272	0.8316	0.8197	0.8464	0.8295	0.8342	0.6606	0.7547	0.8363	0.8297	0.8042	0.7993	0.8268	0.8270	0.8294	0.8464
paw02a-800-7-50-BI	0.7925	0.7479	0.8166	0.8144	0.8146	0.8308	0.8105	0.8208	0.5565	0.6598	0.8202	0.8085	0.7605	0.7403	0.8190	0.8005	0.8104	0.8269
paw02a-800-7-60-BI	0.7226	0.7249	0.7940	0.7888	0.7882	0.8054	0.7963	0.8037	0.3130	0.5847	0.7930	0.7831	0.6991	0.6899	0.7878	0.7757	0.7990	0.8058
paw02a-800-7-70-BI	0.7185	0.6876	0.8039	0.7983	0.8002	0.8067	0.7984	0.8050	0.3159	0.5209	0.8047	0.7788	0.6804	0.6470	0.7892	0.7512	0.8046	0.8069

Dataset	Ba-RB	DN+Ba-RB	ABo1	DN+ABo1	ABo2	DN+ABo2	MBo	DN+MBo	SMBo	DN+SMBo	RAMOBo	DN+RAMOBo	RUSBo	DN+RUSBo	RBBo	DN+RBBo
03subcl5-600-5-0-BI	0.9254	0.9310	0.9370	0.9268	0.9582	0.9578	0.9377	0.9344	0.9543	0.9574	0.9581	0.9618	0.9324	0.9425	0.9401	0.9361
03subcl5-600-5-30-BI	0.7994	0.7961	0.6800	0.7251	0.7098	0.7359	0.6885	0.7216	0.7611	0.7512	0.7881	0.7780	0.7992	0.7802	0.7402	0.7531
03subcl5-600-5-50-BI	0.7896	0.7866	0.5299	0.6419	0.4629	0.6478	0.5273	0.6405	0.6923	0.6814	0.7373	0.7186	0.7889	0.7383	0.6547	0.6737
03subcl5-600-5-60-BI	0.7930	0.7777	0.4484	0.6190	0.4264	0.6067	0.4484	0.6144	0.6881	0.6649	0.7173	0.6992	0.7905	0.7362	0.6093	0.6611
03subcl5-600-5-70-BI	0.7902	0.7725	0.3588	0.5647	0.3663	0.5561	0.3563	0.5472	0.6189	0.6101	0.6806	0.6727	0.8026	0.6986	0.5601	0.6054
03subcl5-800-7-0-BI	0.9244	0.9180	0.9294	0.9093	0.9384	0.9376	0.9279	0.9089	0.9376	0.9376	0.9409	0.9416	0.9101	0.9237	0.9160	0.9121
03subcl5-800-7-30-BI	0.8100	0.7913	0.7006	0.6963	0.6184	0.6967	0.6930	0.6851	0.7399	0.7346	0.7797	0.7656	0.8251	0.7819	0.7361	0.7381
03subcl5-800-7-50-BI	0.7481	0.7259	0.5939	0.5836	0.4755	0.5763	0.5854	0.5727	0.5767	0.6272	0.6831	0.6702	0.7757	0.7116	0.6227	0.6433
03subcl5-800-7-60-BI	0.7649	0.7109	0.4616	0.5591	0.3414	0.5502	0.4507	0.5527	0.4749	0.5994	0.6113	0.6568	0.7971	0.7296	0.5552	0.6417
03subcl5-800-7-70-BI	0.7363	0.6834	0.3894	0.5136	0.2288	0.5049	0.3863	0.4859	0.3497	0.5685	0.5811	0.6132	0.7808	0.7117	0.4758	0.5892
04clover5z-600-5-0-BI	0.8429	0.8899	0.7383	0.8455	0.7397	0.8525	0.7422	0.8352	0.8140	0.8761	0.8491	0.8915	0.8439	0.8949	0.8466	0.8768
04clover5z-600-5-30-BI	0.8208	0.8369	0.5984	0.7254	0.6171	0.7335	0.6102	0.7271	0.6996	0.7780	0.7846	0.8291	0.8151	0.8249	0.7343	0.7788
04clover5z-600-5-50-BI	0.7818	0.7945	0.4954	0.6849	0.4639	0.6748	0.5011	0.6690	0.6534	0.7216	0.7327	0.7540	0.8028	0.7984	0.6493	0.7194
04clover5z-600-5-60-BI	0.7651	0.7531	0.5472	0.6246	0.3932	0.6360	0.5436	0.6253	0.6002	0.6758	0.7289	0.7060	0.7622	0.7479	0.6230	0.6824
04clover5z-600-5-70-BI	0.7632	0.7663	0.3893	0.6119	0.3295	0.6008	0.3893	0.6028	0.5883	0.6690	0.6930	0.7001	0.7660	0.7389	0.5887	0.6755
04clover5z-800-7-0-BI	0.8604	0.8700	0.7909	0.8186	0.7506	0.8139	0.7755	0.8016	0.7980	0.8383	0.8502	0.8768	0.8593	0.8808	0.8391	0.8635
04clover5z-800-7-30-BI	0.7661	0.7630	0.6207	0.6505	0.5853	0.6615	0.6145	0.6449	0.6390	0.6980	0.7090	0.7508	0.7843	0.7955	0.7012	0.7309
04clover5z-800-7-50-BI	0.7337	0.7271	0.4883	0.5786	0.4107	0.5726	0.4736	0.5626	0.5240	0.6417	0.6406	0.6854	0.7829	0.7589	0.5903	0.6437
04clover5z-800-7-60-BI	0.7341	0.7095	0.4873	0.5363	0.3824	0.5137	0.5041	0.5214	0.5044	0.6042	0.6325	0.6421	0.7806	0.7250	0.5450	0.6206
04clover5z-800-7-70-BI	0.7155	0.6833	0.3836	0.5173	0.3087	0.5251	0.3677	0.5173	0.4658	0.5849	0.6015	0.6394	0.7701	0.7173	0.5139	0.6091
paw02a-600-5-0-BI	0.8900	0.9213	0.8624	0.9260	0.8826	0.9288	0.8527	0.9185	0.9055	0.9218	0.9129	0.9261	0.9236	0.9494	0.9164	0.9308
paw02a-600-5-30-BI	0.8490	0.8453	0.7931	0.8087	0.6561	0.8132	0.8034	0.8123	0.7986	0.8207	0.8217	0.8324	0.8432	0.8377	0.8163	0.8250
paw02a-600-5-50-BI	0.8344	0.8353	0.7443	0.7550	0.7395	0.7679	0.7494	0.7675	0.7696	0.7832	0.7920	0.8097	0.8365	0.8306	0.7924	0.7877
paw02a-600-5-60-BI	0.8068	0.8067	0.6252	0.7188	0.6826	0.7105	0.6148	0.7125	0.7175	0.7394	0.7521	0.7607	0.8087	0.7909	0.7153	0.7470
paw02a-600-5-70-BI	0.8280	0.8287	0.6508	0.7028	0.6443	0.7066	0.6536	0.7010	0.7320	0.7359	0.7680	0.7689	0.8302	0.8162	0.7143	0.7368
paw02a-800-7-0-BI	0.8902	0.9188	0.9056	0.9098	0.8974	0.9117	0.8994	0.9060	0.9120	0.9133	0.9214	0.9203	0.9350	0.9458	0.9141	0.9184
paw02a-800-7-30-BI	0.8311	0.8184	0.6956	0.7808	0.7497	0.7788	0.6894	0.7660	0.7745	0.7989	0.8002	0.8093	0.8412	0.8282	0.8003	0.7976
paw02a-800-7-50-BI	0.7850	0.7818	0.7099	0.7105	0.6822	0.7095	0.7041	0.7136	0.7352	0.7375	0.7720	0.7737	0.8285	0.7986	0.7441	0.7433
paw02a-800-7-60-BI	0.7850	0.7540	0.6599	0.6662	0.6167	0.6656	0.6545	0.6652	0.6399	0.7016	0.7195	0.7280	0.7964	0.7623	0.6861	0.7095
paw02a-800-7-70-BI	0.7769	0.7343	0.5975	0.6161	0.5550	0.6226	0.6094	0.6141	0.6233	0.6595	0.6796	0.6841	0.8035	0.7498	0.6563	0.6690