Table 1: Results for BAC metric

(Note: the rightmost column, ODESIRE, is partially cut off at the page edge; its values are reproduced as far as visible. Significance markers printed above each value row belong to the dataset in the row above; they are shown here in brackets after the corresponding value.)

Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	DESIRE (6)	ODESIRE
glass-0-1-4-6-vs-2	0.518 ± 0.062	0.514 ± 0.052	0.721 ± 0.110 [1,2,4,5]	0.516 ± 0.056	0.710 ± 0.113 [1,2,4]	0.729 ± 0.121 [1,2,4]	0.744 ± 0.10 [1,2,4]
ecoli-0-6-7-vs-3-5	0.792 ± 0.119	0.797 ± 0.120	0.846 ± 0.095 [1,4]	0.795 ± 0.117	0.870 ± 0.096 [1,2,4]	0.887 ± 0.073 [1,2,3,4,7]	0.880 ± 0.07 [1,2,3,4]
ecoli-0-3-4-7-vs-5-6	0.869 ± 0.097	0.877 ± 0.086	0.899 ± 0.072 [6,7]	0.879 ± 0.086	0.897 ± 0.072 [6,7]	0.880 ± 0.068 [7]	0.873 ± 0.06
glass4	0.750 ± 0.158	0.755 ± 0.155	0.929 ± 0.100 [1,2,4,6,7]	0.789 ± 0.158 [1,2]	0.928 ± 0.099 [1,2,4,6,7]	0.907 ± 0.099 [1,2,4]	0.907 ± 0.09 [1,2,4]
glass-0-6-vs-5	0.714 ± 0.194	0.709 ± 0.191	0.920 ± 0.139 [1,2,4]	0.714 ± 0.195	0.925 ± 0.127 [1,2,4]	0.952 ± 0.080 [1,2,4]	0.952 ± 0.08 [1,2,4]
vowel0	0.970 ± 0.038	0.975 ± 0.036	0.999 ± 0.001 [1,2,4,6,7]	0.979 ± 0.036 [1,6]	0.999 ± 0.001 [1,2,4,6,7]	0.972 ± 0.027	0.979 ± 0.01
ecoli4	0.894 ± 0.100	0.894 ± 0.103	0.916 ± 0.097	0.894 ± 0.103	0.915 ± 0.096	0.944 ± 0.047 [1,2,4]	0.944 ± 0.04 [1,2,4]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.635 ± 0.077	0.644 ± 0.089	0.900 ± 0.060 [1,2,4,6,7]	0.653 ± 0.099 [1]	0.876 ± 0.092 [1,2,4,6,7]	0.660 ± 0.094 [1]	0.664 ± 0.08 [1,2,6]
shuttle-c0-vs-c4	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008	0.998 ± 0.006	0.998 ± 0.00
ecoli-0-3-4-vs-5	0.903 ± 0.105	0.908 ± 0.106	0.916 ± 0.100	0.911 ± 0.098	0.912 ± 0.098	0.902 ± 0.093	0.901 ± 0.09
yeast-0-3-5-9-vs-7-8	0.641 ± 0.058	0.629 ± 0.047	0.715 ± 0.057 [5,6,7]	0.629 ± 0.049 [6,7]	0.719 ± 0.056 [2,4,6,7]	0.700 ± 0.070	0.716 ± 0.06
ecoli-0-2-6-7-vs-3-5	0.797 ± 0.125	0.817 ± 0.120	0.859 ± 0.092 [1,2,4]	0.813 ± 0.119	0.879 ± 0.080 [1,2,4,6]	0.880 ± 0.069 [1,2,4]	0.873 ± 0.06 [1,2,4]
ecoli-0-6-7-vs-5	0.840 ± 0.108	0.843 ± 0.105 [1]	0.876 ± 0.099 [1]	0.838 ± 0.103 [1]	0.876 ± 0.100 [1,2,4]	0.859 ± 0.089 [1,2,4,7]	0.853 ± 0.08 [1,2,4]
page-blocks-1-3-vs-4	0.818 ± 0.106	0.840 ± 0.099	0.931 ± 0.067 [6,7]	0.845 ± 0.101	0.931 ± 0.068 [6,7]	0.939 ± 0.034 [7]	0.939 ± 0.03
yeast-0-2-5-7-9-vs-3-6-8	0.892 ± 0.042	0.895 ± 0.041 [1]	0.898 ± 0.040 [1,2,4]	0.893 ± 0.041 [1]	0.898 ± 0.040 [1,2,4]	0.886 ± 0.029 [1,2,4]	0.883 ± 0.02 [1,2,4]
ecoli-0-2-3-4-vs-5	0.890 ± 0.083	0.895 ± 0.081	0.913 ± 0.078 [6,7]	0.895 ± 0.085	0.910 ± 0.078 [3,6,7]	0.903 ± 0.073 [7]	0.902 ± 0.07
glass5	0.648 ± 0.165	0.649 ± 0.165	0.819 ± 0.197 [5,6,7]	0.648 ± 0.165	0.824 ± 0.198 [6,7]	0.909 ± 0.121	0.909 ± 0.12
yeast-0-2-5-6-vs-3-7-8-9	0.756 ± 0.042	0.758 ± 0.044	0.799 ± 0.046 [1,2,4]	0.756 ± 0.045	0.794 ± 0.045 [1,2,4]	0.766 ± 0.038 [1,2,4]	0.770 ± 0.03 [1,2,4]
ecoli-0-3-4-6-vs-5	0.895 ± 0.094	0.898 ± 0.095 [4]	0.916 ± 0.088 [all]	0.895 ± 0.094	0.913 ± 0.088 [1,2,4,6,7]	0.895 ± 0.082	0.893 ± 0.08 [1,4]
ecoli-0-1-vs-5	0.891 ± 0.089	0.894 ± 0.090	0.919 ± 0.073 [5,6,7]	0.891 ± 0.089	0.917 ± 0.074 [6,7]	0.912 ± 0.071	0.911 ± 0.07
yeast4	0.555 ± 0.043	0.554 ± 0.041	0.725 ± 0.073 [6,7]	0.561 ± 0.047	0.728 ± 0.072 [6,7]	0.813 ± 0.064	0.813 ± 0.06
shuttle-c2-vs-c4	0.585 ± 0.177	0.585 ± 0.177	0.995 ± 0.034 [1,2,4]	0.585 ± 0.177	0.995 ± 0.034 [1,2,4]	0.995 ± 0.034 [1,2,3,4]	0.995 ± 0.03 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	0.508 ± 0.024	0.508 ± 0.024	0.636 ± 0.092 [1,2,4]	0.509 ± 0.026	0.659 ± 0.093 [1,2,4]	0.687 ± 0.088 [1,2,4]	0.687 ± 0.08 [1,2,4]
ecoli-0-1-4-7-vs-5-6	0.865 ± 0.098	0.873 ± 0.088	0.908 ± 0.069 [1,2,4]	0.875 ± 0.085	0.909 ± 0.068 [1,2,4]	0.889 ± 0.058 [1,2,3,4]	0.889 ± 0.05 [1,2,3,4]
ecoli-0-1-4-7-vs-2-3-5-6	0.833 ± 0.100	0.831 ± 0.099	0.856 ± 0.081 [6,7]	0.833 ± 0.100	0.855 ± 0.080 [6,7]	0.851 ± 0.069	0.846 ± 0.06
yeast-2-vs-4	0.820 ± 0.066	0.822 ± 0.066	0.877 ± 0.063 [5]	0.822 ± 0.066	0.878 ± 0.059 [2,7]	0.877 ± 0.057 [7]	0.887 ± 0.05
glass-0-4-vs-5	0.744 ± 0.204	0.744 ± 0.204	0.972 ± 0.064 [1,2,4]	0.759 ± 0.195	0.981 ± 0.045 [1,2,4]	0.950 ± 0.033 [1,2,4]	0.950 ± 0.03 [1,2,4]
glass-0-1-6-vs-2	0.522 ± 0.062	0.517 ± 0.056	0.700 ± 0.117 [1,2,4,6,7]	0.519 ± 0.057	0.692 ± 0.113 [1,2,4,6,7]	0.735 ± 0.104 [1,2,4]	0.738 ± 0.09 [1,2,4]
glass-0-1-5-vs-2	0.533 ± 0.066	0.525 ± 0.060	0.694 ± 0.139 [1,2,4]	0.530 ± 0.073	0.688 ± 0.138 [1,2,4]	0.690 ± 0.130 [1,2,4]	0.722 ± 0.10 [1,2,4,5]
yeast6	0.757 ± 0.091	0.755 ± 0.090	0.821 ± 0.092 [1,2,4]	0.756 ± 0.091	0.827 ± 0.093 [1,2,4]	0.882 ± 0.056 [1,2,4]	0.882 ± 0.05 [1,2,4]
ecoli-0-1-3-7-vs-2-6	0.850 ± 0.200	0.849 ± 0.200	0.839 ± 0.196 [1,2,4]	0.849 ± 0.199	0.840 ± 0.196 [1,2,4]	0.815 ± 0.195 [1,2,3,4,5]	0.815 ± 0.19 [1,2,3,4,5]
yeast-1-vs-7	0.529 ± 0.043 [3,5,6,7]	0.535 ± 0.047 [3,5,6,7]	0.673 ± 0.107 [6,7]	0.541 ± 0.048 [3,5,6,7]	0.679 ± 0.104 [6,7]	0.662 ± 0.099	0.678 ± 0.09
glass-0-1-6-vs-5	0.668 ± 0.151	0.658 ± 0.149	0.888 ± 0.148 [1,2,4]	0.664 ± 0.148	0.878 ± 0.150 [1,2,4]	0.903 ± 0.129 [1,2,4]	0.903 ± 0.12 [1,2,4,6]
yeast-2-vs-8	0.774 ± 0.114	0.774 ± 0.114	0.785 ± 0.118 [1,2,4]	0.774 ± 0.114	0.790 ± 0.113 [1,2,4]	0.805 ± 0.104 [1,2,3,4,5]	0.805 ± 0.10 [1,2,3,4,5]
glass2	0.547 ± 0.083	0.520 ± 0.066	0.738 ± 0.123 [1,2,4]	0.525 ± 0.072	0.737 ± 0.119 [3]	0.755 ± 0.102 [1,2,4]	0.758 ± 0.10 [1,2,4]
ecoli-0-1-4-6-vs-5	0.886 ± 0.091 [4]	0.892 ± 0.090	0.919 ± 0.075 [1,2,4]	0.894 ± 0.091	0.918 ± 0.075 [1,2,4]	0.905 ± 0.070 [1,2,4]	0.905 ± 0.07 [1,2,4]
yeast-0-5-6-7-9-vs-4	0.649 ± 0.074	0.654 ± 0.072	0.801 ± 0.059 [6,7]	0.661 ± 0.073	0.802 ± 0.059 [6,7]	0.794 ± 0.050	0.797 ± 0.04
ecoli-0-1-vs-2-3-5	0.833 ± 0.093	0.832 ± 0.095	0.883 ± 0.092 [1,2,4]	0.823 ± 0.101	0.880 ± 0.092 [1,2,4]	0.864 ± 0.085 [1,2,4]	0.857 ± 0.08 [1,2,4]
yeast5	0.821 ± 0.064	0.833 ± 0.063	0.940 ± 0.051 [all]	0.833 ± 0.066	0.938 ± 0.052 [1,2,4,6,7]	0.978 ± 0.011 [1,2,4,7]	0.978 ± 0.01 [4]
yeast-1-4-5-8-vs-7	0.501 ± 0.010	0.501 ± 0.010	0.577 ± 0.081 [1,2,4,5]	0.501 ± 0.010 [1]	0.587 ± 0.086 [1,2,4]	0.627 ± 0.099 [1,2,3,4,5]	0.627 ± 0.09 [1,2,3,4,5]
ecoli-0-4-6-vs-5	0.901 ± 0.084	0.904 ± 0.085	0.915 ± 0.083 [1,2,4]	0.906 ± 0.084	0.915 ± 0.081 [1,2,4]	0.904 ± 0.079 [1,2,3,4,5]	0.901 ± 0.07 [1,2,3,4,5]
(trailing markers)	–	–	6,7	–	6,7	7	–

Table 1: Results for BAC metric

1

Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	DESIRE (6)	ODESIRE (7)
glass-0-1-4-6-vs-2	0.098 ± 0.210	0.083 ± 0.189	0.679 ± 0.182 [1,2,4,5]	0.094 ± 0.201	0.667 ± 0.182 [1,2,4]	0.714 ± 0.148 [1,2,4]	0.735 ± 0.10 [1,2,4,5]
ecoli-0-6-7-vs-3-5	0.750 ± 0.159	0.751 ± 0.183	0.830 ± 0.117 [1,4]	0.749 ± 0.180	0.858 ± 0.110 [1,2,4]	0.882 ± 0.078 [all]	0.875 ± 0.07 [1,2,3,4]
ecoli-0-3-4-7-vs-5-6	0.852 ± 0.116	0.863 ± 0.100	0.893 ± 0.079 [6,7]	0.866 ± 0.099	0.891 ± 0.079 [6,7]	0.875 ± 0.072 [7]	0.869 ± 0.06
glass4	0.641 ± 0.310	0.655 ± 0.298	0.921 ± 0.115 [1,2,4,6,7]	0.706 ± 0.293 [1,2]	0.921 ± 0.115 [1,2,4,6,7]	0.900 ± 0.112 [1,2,4]	0.900 ± 0.11 [1,2,4]
glass-0-6-vs-5	0.521 ± 0.407	0.515 ± 0.402	0.885 ± 0.244 [1,2,4]	0.521 ± 0.407 [1,2]	0.899 ± 0.211 [1,2,4]	0.947 ± 0.093 [1,2,4]	0.947 ± 0.09 [1,2,4]
vowel0	0.969 ± 0.041	0.974 ± 0.038	0.999 ± 0.001 [1,2,4,6,7]	0.978 ± 0.039 [1,6]	0.999 ± 0.001 [1,2,4,6,7]	0.972 ± 0.028	0.979 ± 0.01
ecoli4	0.879 ± 0.124	0.879 ± 0.127	0.906 ± 0.116 [1,2,4]	0.879 ± 0.127	0.905 ± 0.115	0.942 ± 0.049 [1,2,4]	0.942 ± 0.04 [1,2,4]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.494 ± 0.179	0.506 ± 0.182	0.897 ± 0.064 [1,2,4,6,7]	0.520 ± 0.190 [1]	0.866 ± 0.115 [1,2,4,6,7]	0.583 ± 0.163 [1,2,4]	0.602 ± 0.12 [1,2,4]
shuttle-c0-vs-c4	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.998 ± 0.006 [1,2,4]	0.998 ± 0.00 [1,2,4,6]
ecoli-0-3-4-vs-5	0.888 ± 0.132	0.889 ± 0.165	0.905 ± 0.122 [5,6,7]	0.899 ± 0.120 [6,7]	0.901 ± 0.120 [2,4,6,7]	0.894 ± 0.112	0.893 ± 0.11
yeast-0-3-5-9-vs-7-8	0.533 ± 0.123	0.512 ± 0.108	0.693 ± 0.072 [1,2,4]	0.511 ± 0.113	0.701 ± 0.070 [1,2,4]	0.695 ± 0.071 [1,2,4]	0.711 ± 0.06 [1,2,4]
ecoli-0-2-6-7-vs-3-5	0.747 ± 0.192	0.771 ± 0.204 [1]	0.845 ± 0.110 [1]	0.765 ± 0.203 [1]	0.870 ± 0.091 [1,2,4]	0.875 ± 0.072 [1,2,4,7]	0.868 ± 0.07 [1,2,4]
ecoli-0-6-7-vs-5	0.814 ± 0.139	0.818 ± 0.135	0.863 ± 0.117	0.812 ± 0.133	0.863 ± 0.118 [6,7]	0.853 ± 0.095 [1,4,7]	0.846 ± 0.09
page-blocks-1-3-vs-4	0.789 ± 0.138	0.817 ± 0.125 [1]	0.928 ± 0.073 [1,2,4]	0.824 ± 0.127 [1]	0.928 ± 0.076 [1,2,4]	0.938 ± 0.035 [1,2,4]	0.938 ± 0.03 [1,2,4]
yeast-0-2-5-7-9-vs-3-6-8	0.885 ± 0.047	0.889 ± 0.045	0.895 ± 0.044 [6,7]	0.887 ± 0.046	0.895 ± 0.044 [3,6,7]	0.885 ± 0.029 [7]	0.882 ± 0.02
ecoli-0-2-3-4-vs-5	0.878 ± 0.100	0.884 ± 0.098	0.906 ± 0.088 [5,6,7]	0.883 ± 0.102	0.903 ± 0.087 [6,7]	0.898 ± 0.080	0.896 ± 0.07
glass5	0.394 ± 0.387	0.395 ± 0.388	0.712 ± 0.375 [1,2,4]	0.394 ± 0.387	0.718 ± 0.377 [1,2,4]	0.886 ± 0.201 [1,2,4]	0.886 ± 0.20 [1,2,4]
yeast-0-2-5-6-vs-3-7-8-9	0.719 ± 0.058	0.721 ± 0.061 [4]	0.788 ± 0.055 [all]	0.718 ± 0.063	0.784 ± 0.053 [1,2,4,6,7]	0.764 ± 0.038 [1,2,4]	0.768 ± 0.03 [1,2,4]
ecoli-0-3-4-6-vs-5	0.883 ± 0.108	0.886 ± 0.109	0.908 ± 0.099 [5,6,7]	0.883 ± 0.108	0.906 ± 0.099 [6,7]	0.890 ± 0.089	0.888 ± 0.08
ecoli-0-1-vs-5	0.879 ± 0.104	0.881 ± 0.105	0.912 ± 0.082 [6,7]	0.879 ± 0.104	0.911 ± 0.082 [6,7]	0.907 ± 0.077	0.907 ± 0.07
yeast4	0.288 ± 0.183	0.287 ± 0.174	0.675 ± 0.110 [1,2,4]	0.312 ± 0.176	0.681 ± 0.108 [1,2,4]	0.804 ± 0.076 [1,2,3,4]	0.804 ± 0.07 [1,2,3,4]
shuttle-c2-vs-c4	0.182 ± 0.369	0.182 ± 0.369	0.994 ± 0.041 [1,2,4]	0.182 ± 0.369	0.994 ± 0.041 [1,2,3,4]	0.994 ± 0.041 [1,2,3,4,5]	0.994 ± 0.04 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	0.041 ± 0.122	0.041 ± 0.122	0.505 ± 0.219 [1,2,4]	0.049 ± 0.132	0.560 ± 0.188 [1,2,4]	0.658 ± 0.117 [1,2,4]	0.658 ± 0.11 [1,2,4]
ecoli-0-1-4-7-vs-5-6	0.844 ± 0.132	0.857 ± 0.109	0.902 ± 0.077 [6,7]	0.860 ± 0.105	0.903 ± 0.075 [6,7]	0.885 ± 0.061 [1,2,4]	0.886 ± 0.06
ecoli-0-1-4-7-vs-2-3-5-6	0.805 ± 0.133	0.803 ± 0.128	0.843 ± 0.097 [5]	0.806 ± 0.129	0.843 ± 0.097 [2]	0.845 ± 0.075 [1,2,4,7]	0.840 ± 0.07 [1,2,4]
yeast-2-vs-4	0.797 ± 0.083	0.800 ± 0.083	0.869 ± 0.072 [1,2,4]	0.800 ± 0.083	0.871 ± 0.067 [1,2,4]	0.873 ± 0.061 [1,2,4]	0.884 ± 0.05 [1,2,4]
glass-0-4-vs-5	0.560 ± 0.419	0.560 ± 0.419	0.969 ± 0.072 [1,2,4,6,7]	0.603 ± 0.395	0.980 ± 0.049 [1,2,4,6,7]	0.948 ± 0.035 [1,2,4]	0.948 ± 0.03 [1,2,4]
glass-0-1-6-vs-2	0.118 ± 0.222	0.096 ± 0.205	0.664 ± 0.164 [1,2,4]	0.107 ± 0.214	0.653 ± 0.162 [1,2,4]	0.722 ± 0.104 [1,2,3,4,5]	0.725 ± 0.09 [1,2,3,4,5]
glass-0-1-5-vs-2	0.161 ± 0.246	0.129 ± 0.230	0.643 ± 0.217 [1,2,4]	0.145 ± 0.248	0.635 ± 0.215 [1,2,4]	0.669 ± 0.157 [1,2,4]	0.701 ± 0.13 [1,2,4,5]
yeast6	0.707 ± 0.136	0.704 ± 0.134	0.797 ± 0.122 [1,2,4]	0.705 ± 0.136	0.805 ± 0.123 [1,2,4]	0.878 ± 0.061 [1,2,4]	0.878 ± 0.06 [1,2,4,5]
ecoli-0-1-3-7-vs-2-6	0.741 ± 0.387	0.741 ± 0.387	0.732 ± 0.381 [1,2,4]	0.741 ± 0.387	0.733 ± 0.382 [1,2,4]	0.713 ± 0.370 [1,2,3,4,5]	0.713 ± 0.37 [1,2,3,4,5]
yeast-1-vs-7	0.142 ± 0.199 [3,5,6,7]	0.162 ± 0.209 [3,5,6,7]	0.592 ± 0.203 [6,7]	0.194 ± 0.213 [3,5,6,7]	0.605 ± 0.200 [6,7]	0.648 ± 0.108	0.666 ± 0.10
glass-0-1-6-vs-5	0.459 ± 0.368	0.441 ± 0.367	0.849 ± 0.247 [1,2,4]	0.455 ± 0.363	0.838 ± 0.248 [1,2,4]	0.878 ± 0.207 [1,2,4]	0.878 ± 0.20 [1,2,3,4,6]
yeast-2-vs-8	0.718 ± 0.181	0.718 ± 0.181	0.738 ± 0.182 [1,2,4]	0.718 ± 0.181	0.753 ± 0.151 [1,2,4]	0.787 ± 0.129 [1,2,3,4]	0.787 ± 0.12 [1,2,3,4]
glass2	0.201 ± 0.271	0.101 ± 0.218	0.700 ± 0.176 [1,2,4]	0.124 ± 0.236	0.701 ± 0.170 [3]	0.748 ± 0.102 [1,2,4]	0.751 ± 0.10 [1,2,4]
ecoli-0-1-4-6-vs-5	0.873 ± 0.105 [2]	0.879 ± 0.104	0.912 ± 0.083 [1,2,4]	0.881 ± 0.105	0.912 ± 0.083 [1,2,4]	0.900 ± 0.075 [1,2,3,4,5]	0.900 ± 0.07 [1,2,3,4,5]
yeast-0-5-6-7-9-vs-4	0.532 ± 0.164	0.546 ± 0.150	0.789 ± 0.070 [1,2,4]	0.560 ± 0.148	0.790 ± 0.069 [1,2,4]	0.790 ± 0.050	0.794 ± 0.04
ecoli-0-1-vs-2-3-5	0.807 ± 0.125	0.805 ± 0.127	0.871 ± 0.110 [6,7]	0.787 ± 0.162	0.869 ± 0.110 [1,2,4]	0.856 ± 0.100 [1,2,4]	0.848 ± 0.09 [1,2,4]
yeast5	0.798 ± 0.083	0.814 ± 0.078	0.937 ± 0.056 [all]	0.813 ± 0.083	0.935 ± 0.056 [1,2,4,6,7]	0.978 ± 0.011 [1,2,4,7]	0.978 ± 0.01 [1,2,4]
yeast-1-4-5-8-vs-7	0.008 ± 0.056	0.008 ± 0.056	0.398 ± 0.215 [1,2,4,5]	0.008 ± 0.056	0.431 ± 0.210 [1,2,4]	0.600 ± 0.142 [1,2,3,4,5]	0.600 ± 0.14 [1,2,3,4,5]
ecoli-0-4-6-vs-5	0.892 ± 0.095	0.895 ± 0.096	0.909 ± 0.091 [6,7]	0.897 ± 0.096	0.908 ± 0.090 [6,7]	0.900 ± 0.083 [7]	0.898 ± 0.08

Table 2: Results for GMEAN metric