

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.522 ± 0.062	0.686 ± 0.128	0.679 ± 0.126	0.763 ± 0.092	0.745 ± 0.090	0.739 ± 0.094	0.747 ± 0.096
<i>ecoli-0-3-4-7-vs-5-6</i>	[−] 0.869 ± 0.097	¹ 0.900 ± 0.071	¹ 0.898 ± 0.071	^{all} 0.879 ± 0.074	^{1,2,3,6} 0.878 ± 0.078	^{1,2,3} 0.900 ± 0.077	^{1,2,3,6} 0.883 ± 0.077
<i>shuttle-c2-vs-c4</i>	[−] 0.585 ± 0.177	³ 0.995 ± 0.034	[−] 0.995 ± 0.034	[−] 0.855 ± 0.218	[−] 0.910 ± 0.178	[−] 0.860 ± 0.218	[−] 0.920 ± 0.176
<i>glass-0-1-4-6-vs-2</i>	[−] 0.518 ± 0.062	^{1,4,5,6} 0.707 ± 0.110	^{1,4,5,6} 0.699 ± 0.122	¹ 0.750 ± 0.113	¹ 0.740 ± 0.106	¹ 0.721 ± 0.106	¹ 0.738 ± 0.098
<i>yeast-1-2-8-9-vs-7</i>	[−] 0.508 ± 0.024	¹ 0.640 ± 0.086	¹ 0.650 ± 0.087	^{1,5,6,7} 0.649 ± 0.091	^{1,3,6,7} 0.643 ± 0.095	¹ 0.674 ± 0.084	^{1,6} 0.682 ± 0.087
<i>ecoli-0-1-4-6-vs-5</i>	[−] 0.886 ± 0.091	¹ 0.920 ± 0.075	¹ 0.918 ± 0.074	¹ 0.901 ± 0.080	¹ 0.903 ± 0.077	^{1,2,5} 0.904 ± 0.078	^{1,2,3,4,5} 0.905 ± 0.078
<i>glass-0-1-6-vs-5</i>	[−] 0.668 ± 0.151	^{3,4,5,6,7} 0.884 ± 0.147	[−] 0.879 ± 0.150	[−] 0.845 ± 0.160	[−] 0.838 ± 0.160	[−] 0.846 ± 0.153	[−] 0.847 ± 0.154
<i>yeast-2-vs-4</i>	[−] 0.820 ± 0.066	^{1,4,5,7} 0.877 ± 0.063	^{1,5,7} 0.879 ± 0.061	¹ 0.839 ± 0.063	¹ 0.846 ± 0.065	¹ 0.843 ± 0.068	^{1,6} 0.853 ± 0.063
<i>glass-0-6-vs-5</i>	[−] 0.714 ± 0.194	^{1,4,5,6,7} 0.920 ± 0.139	^{1,4,5,6,7} 0.930 ± 0.113	[−] 0.805 ± 0.181	¹ 0.796 ± 0.187	¹ 0.830 ± 0.155	¹ 0.816 ± 0.170
<i>ecoli-0-3-4-6-vs-5</i>	[−] 0.895 ± 0.094	^{1,4,5,6,7} 0.917 ± 0.087	^{1,4,5,6,7} 0.914 ± 0.087	¹ 0.896 ± 0.088	¹ 0.900 ± 0.090	^{1,5} 0.895 ± 0.092	¹ 0.893 ± 0.092
<i>yeast-0-3-5-9-vs-7-8</i>	^{6,7} 0.641 ± 0.058	^{3,4,5,6,7} 0.707 ± 0.060	^{4,5,6,7} 0.706 ± 0.059	¹ 0.652 ± 0.067	¹ 0.650 ± 0.061	[−] 0.666 ± 0.066	[−] 0.655 ± 0.057
<i>glass-0-1-5-vs-2</i>	[−] 0.533 ± 0.066	^{all} 0.682 ± 0.145	^{1,4,5,6,7} 0.681 ± 0.142	[−] 0.728 ± 0.131	[−] 0.727 ± 0.108	^{1,5} 0.690 ± 0.126	[−] 0.723 ± 0.105
<i>ecoli-0-6-7-vs-5</i>	[−] 0.840 ± 0.108	¹ 0.872 ± 0.098	¹ 0.874 ± 0.096	^{1,3,5,6,7} 0.869 ± 0.102	^{1,3,6} 0.865 ± 0.100	¹ 0.869 ± 0.099	^{1,6} 0.871 ± 0.107
<i>ecoli-0-2-3-4-vs-5</i>	[−] 0.890 ± 0.083	⁴ 0.913 ± 0.080	[−] 0.910 ± 0.079	[−] 0.907 ± 0.080	[−] 0.908 ± 0.080	[−] 0.908 ± 0.080	[−] 0.908 ± 0.080
<i>ecoli4</i>	[−] 0.894 ± 0.100	³ 0.919 ± 0.097	[−] 0.918 ± 0.097	[−] 0.924 ± 0.091	[−] 0.938 ± 0.081	[−] 0.932 ± 0.088	[−] 0.932 ± 0.082
<i>yeast5</i>	[−] 0.821 ± 0.064	[−] 0.935 ± 0.049	[−] 0.934 ± 0.053	^{2,3} 0.926 ± 0.061	^{1,2,3,7} 0.940 ± 0.052	^{2,3,7} 0.940 ± 0.053	³ 0.930 ± 0.049
<i>ecoli-0-4-6-vs-5</i>	[−] 0.901 ± 0.084	^{1,3} 0.916 ± 0.082	¹ 0.916 ± 0.081	¹ 0.902 ± 0.080	^{1,6,7} 0.906 ± 0.083	¹ 0.902 ± 0.085	¹ 0.906 ± 0.083
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	[−] 0.635 ± 0.077	^{4,5,6,7} 0.899 ± 0.069	^{4,5,6,7} 0.878 ± 0.086	¹ 0.615 ± 0.080	¹ 0.653 ± 0.087	¹ 0.885 ± 0.073	¹ 0.874 ± 0.119
<i>ecoli-0-1-vs-5</i>	⁴ 0.891 ± 0.089	^{1,4,5} 0.920 ± 0.074	^{1,4,5,7} 0.918 ± 0.074	[−] 0.903 ± 0.081	⁴ 0.908 ± 0.075	^{1,4,5} 0.908 ± 0.079	^{1,4,5} 0.912 ± 0.072
<i>ecoli-0-2-6-7-vs-3-5</i>	[−] 0.797 ± 0.125	[−] 0.856 ± 0.087	[−] 0.872 ± 0.081	[−] 0.831 ± 0.109	[−] 0.835 ± 0.103	[−] 0.842 ± 0.100	[−] 0.839 ± 0.099
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	[−] 0.833 ± 0.100	¹ 0.848 ± 0.082	^{1,4,5,6,7} 0.850 ± 0.081	[−] 0.861 ± 0.081	[−] 0.858 ± 0.081	¹ 0.856 ± 0.081	[−] 0.858 ± 0.077
<i>shuttle-c0-vs-c4</i>	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	^{2,3,6,7} 0.995 ± 0.008	^{2,3,6} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008
<i>ecoli-0-6-7-vs-3-5</i>	[−] 0.792 ± 0.119	[−] 0.845 ± 0.104	[−] 0.861 ± 0.102	[−] 0.826 ± 0.104	[−] 0.829 ± 0.105	[−] 0.830 ± 0.106	[−] 0.834 ± 0.100
<i>vowel0</i>	[−] 0.970 ± 0.038	[−] 0.999 ± 0.002	¹ 0.999 ± 0.002	[−] 0.804 ± 0.068	[−] 0.895 ± 0.062	[−] 0.932 ± 0.052	[−] 0.904 ± 0.058
<i>glass4</i>	^{4,5,6,7} 0.750 ± 0.158	^{1,4,5,6,7} 0.909 ± 0.143	^{1,4,5,6,7} 0.909 ± 0.143	[−] 0.786 ± 0.141	⁴ 0.805 ± 0.152	^{4,5,7} 0.789 ± 0.150	^{4,5} 0.808 ± 0.154
<i>yeast-0-5-6-7-9-vs-4</i>	[−] 0.649 ± 0.074	^{1,4,5,6,7} 0.805 ± 0.060	^{1,4,5,6,7} 0.804 ± 0.059	[−] 0.785 ± 0.054	[−] 0.789 ± 0.050	[−] 0.801 ± 0.050	[−] 0.801 ± 0.059
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	[−] 0.756 ± 0.042	^{1,3,4,5} 0.795 ± 0.046	^{1,4} 0.790 ± 0.045	¹ 0.765 ± 0.052	¹ 0.776 ± 0.053	^{1,4} 0.760 ± 0.053	^{1,4} 0.760 ± 0.054
<i>ecoli-0-1-vs-2-3-5</i>	[−] 0.833 ± 0.093	^{all} 0.879 ± 0.093	^{1,4,5,6,7} 0.877 ± 0.091	[−] 0.855 ± 0.090	^{1,4,6,7} 0.859 ± 0.087	[−] 0.858 ± 0.087	[−] 0.855 ± 0.088
<i>ecoli-0-3-4-vs-5</i>	[−] 0.903 ± 0.105	¹ 0.916 ± 0.100	¹ 0.913 ± 0.098	[−] 0.912 ± 0.104	^{1,7} 0.911 ± 0.104	[−] 0.909 ± 0.104	[−] 0.905 ± 0.110
<i>glass5</i>	[−] 0.648 ± 0.165	³ 0.820 ± 0.198	[−] 0.829 ± 0.199	[−] 0.815 ± 0.180	[−] 0.837 ± 0.180	¹ 0.827 ± 0.175	¹ 0.838 ± 0.181
<i>yeast4</i>	[−] 0.555 ± 0.043	^{1,4} 0.724 ± 0.072	^{1,4,6} 0.728 ± 0.076	¹ 0.747 ± 0.071	^{1,3} 0.749 ± 0.071	^{1,4} 0.782 ± 0.079	^{1,3} 0.783 ± 0.072
<i>glass-0-4-vs-5</i>	[−] 0.744 ± 0.204	¹ 0.971 ± 0.064	¹ 0.981 ± 0.045	^{1,2} 0.838 ± 0.156	^{1,2} 0.856 ± 0.159	^{1,2,3,4,5} 0.860 ± 0.147	^{1,2,3,4,5} 0.832 ± 0.159
<i>yeast6</i>	[−] 0.757 ± 0.091	^{1,4,5,6,7} 0.811 ± 0.097	^{1,4,5,6,7} 0.813 ± 0.098	[−] 0.839 ± 0.088	¹ 0.845 ± 0.082	¹ 0.854 ± 0.082	¹ 0.860 ± 0.076
<i>page-blocks-1-3-vs-4</i>	[−] 0.818 ± 0.106	¹ 0.929 ± 0.073	¹ 0.930 ± 0.072	^{1,2,3} 0.756 ± 0.102	^{1,2,3} 0.792 ± 0.105	^{1,2,3} 0.816 ± 0.114	^{1,2,3} 0.810 ± 0.102
<i>yeast-1-vs-7</i>	⁴ 0.529 ± 0.043	^{1,4,5,6,7} 0.646 ± 0.099	^{1,4,5,6,7} 0.661 ± 0.105	[−] 0.637 ± 0.092	⁴ 0.622 ± 0.098	⁴ 0.656 ± 0.104	^{4,5} 0.649 ± 0.104
<i>ecoli-0-1-3-7-vs-2-6</i>	[−] 0.850 ± 0.200	¹ 0.840 ± 0.197	^{1,5} 0.841 ± 0.197	¹ 0.842 ± 0.208	¹ 0.837 ± 0.206	^{1,5} 0.827 ± 0.199	^{1,5} 0.835 ± 0.202
<i>yeast-1-4-5-8-vs-7</i>	^{all} 0.501 ± 0.010	^{6,7} 0.580 ± 0.079	^{6,7} 0.588 ± 0.086	^{5,6,7} 0.596 ± 0.086	⁶ 0.594 ± 0.091	[−] 0.623 ± 0.102	⁶ 0.618 ± 0.093
<i>ecoli-0-1-4-7-vs-5-6</i>	[−] 0.865 ± 0.098	¹ 0.907 ± 0.070	¹ 0.908 ± 0.067	¹ 0.894 ± 0.078	¹ 0.889 ± 0.083	^{1,2,3,5} 0.897 ± 0.073	^{1,2,3} 0.894 ± 0.082
<i>yeast-2-vs-8</i>	[−] 0.774 ± 0.114	[−] 0.784 ± 0.122	² 0.790 ± 0.112	[−] 0.773 ± 0.116	[−] 0.776 ± 0.111	⁴ 0.773 ± 0.116	[−] 0.775 ± 0.111
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	[−] 0.892 ± 0.042	^{1,4,5,6,7} 0.896 ± 0.039	² 0.894 ± 0.041	[−] 0.897 ± 0.039	[−] 0.901 ± 0.038	[−] 0.896 ± 0.041	[−] 0.898 ± 0.037
<i>glass2</i>	[−] 0.547 ± 0.083	³ 0.710 ± 0.131	[−] 0.703 ± 0.111	[−] 0.755 ± 0.106	^{1,3} 0.757 ± 0.103	[−] 0.746 ± 0.093	[−] 0.753 ± 0.102
	[−]	¹	¹	^{1,2,3,6,7}	^{1,2,3,4,6}	^{1,2,3}	^{1,2,3,6}

Table 1: Results for BAC metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	1.585	5.256	5.232	3.402	4.037	4.134	4.354
	[−]	^{1,4,5,6}	^{1,4,5,6}	¹	^{1,4}	^{1,4}	^{1,4}

Table 2: Results for mean ranks according to BAC metric

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.088 ± 0.169	0.352 ± 0.163	0.337 ± 0.158	0.350 ± 0.090	0.316 ± 0.077	0.307 ± 0.077	0.316 ± 0.087
<i>ecoli-0-3-4-7-vs-5-6</i>	^{1,6,7} 0.813 ± 0.131	^{1,6,7} 0.773 ± 0.101	¹ 0.753 ± 0.100	^{1,5,6,7} 0.795 ± 0.115	^{1,6} 0.787 ± 0.121	¹ 0.784 ± 0.123	¹ 0.779 ± 0.125
<i>shuttle-c2-vs-c4</i>	^{2,3,7} 0.180 ± 0.366	³ 0.993 ± 0.046	³ 0.993 ± 0.046	³ 0.720 ± 0.433	³ 0.833 ± 0.348	³ 0.727 ± 0.435	³ 0.847 ± 0.347
<i>glass-0-1-4-6-vs-2</i>	^{1,4,5,6} 0.074 ± 0.165	^{1,4,5,6} 0.358 ± 0.140	^{1,4,5,6} 0.350 ± 0.160	¹ 0.334 ± 0.104	¹ 0.313 ± 0.097	¹ 0.288 ± 0.091	¹ 0.307 ± 0.081
<i>yeast-1-2-8-9-vs-7</i>	^{1,5,6,7} 0.026 ± 0.079	^{1,5,6,7} 0.249 ± 0.132	^{1,5,6,7} 0.250 ± 0.121	^{1,5,6,7} 0.175 ± 0.078	^{1,6,7} 0.162 ± 0.088	¹ 0.166 ± 0.059	^{1,6} 0.178 ± 0.063
<i>ecoli-0-1-4-6-vs-5</i>	^{1,4,5,6,7} 0.845 ± 0.127	^{1,4,5,6,7} 0.855 ± 0.112	^{1,4,5,6,7} 0.832 ± 0.103	^{1,5} 0.823 ± 0.111	¹ 0.814 ± 0.108	¹ 0.824 ± 0.110	^{1,6} 0.818 ± 0.109
<i>glass-0-1-6-vs-5</i>	⁵ 0.332 ± 0.282	^{3,5,7} 0.611 ± 0.253	³ 0.612 ± 0.264	³ 0.547 ± 0.250	³ 0.527 ± 0.247	³ 0.561 ± 0.239	³ 0.539 ± 0.242
<i>yeast-2-vs-4</i>	^{1,5,7} 0.752 ± 0.104	^{1,5,7} 0.766 ± 0.090	^{1,5,7} 0.762 ± 0.092	¹ 0.760 ± 0.096	¹ 0.764 ± 0.097	¹ 0.743 ± 0.103	¹ 0.755 ± 0.096
<i>glass-0-6-vs-5</i>	⁶ 0.490 ± 0.393	⁶ 0.785 ± 0.266	⁶ 0.801 ± 0.219	⁶ 0.648 ± 0.327	⁶ 0.614 ± 0.346	⁶ 0.695 ± 0.267	⁶ 0.646 ± 0.302
<i>ecoli-0-3-4-6-vs-5</i>	^{1,4,5,6,7} 0.853 ± 0.140	^{1,4,5,6,7} 0.852 ± 0.131	^{1,4,5,6,7} 0.830 ± 0.130	¹ 0.778 ± 0.148	¹ 0.779 ± 0.153	^{1,5} 0.781 ± 0.155	¹ 0.770 ± 0.157
<i>yeast-0-3-5-9-vs-7-8</i>	^{4,5,6,7} 0.397 ± 0.126	^{3,4,5,6,7} 0.403 ± 0.080	^{4,5,6,7} 0.393 ± 0.077	³ 0.401 ± 0.130	³ 0.396 ± 0.127	³ 0.405 ± 0.117	³ 0.398 ± 0.112
<i>glass-0-1-5-vs-2</i>	³ 0.113 ± 0.179	³ 0.346 ± 0.179	³ 0.336 ± 0.169	³ 0.335 ± 0.115	³ 0.321 ± 0.098	³ 0.289 ± 0.096	³ 0.313 ± 0.086
<i>ecoli-0-6-7-vs-5</i>	^{1,6} 0.774 ± 0.170	^{1,6} 0.727 ± 0.153	^{1,6} 0.719 ± 0.148	^{1,5,6,7} 0.782 ± 0.169	^{1,6} 0.769 ± 0.166	¹ 0.765 ± 0.163	^{1,6} 0.754 ± 0.175
<i>ecoli-0-2-3-4-vs-5</i>	^{2,3} 0.852 ± 0.121	^{2,3} 0.825 ± 0.129	^{2,3} 0.806 ± 0.128	^{2,3} 0.826 ± 0.134	^{2,3} 0.819 ± 0.134	^{2,3} 0.824 ± 0.136	³ 0.820 ± 0.133
<i>ecoli4</i>	^{3,5,6,7} 0.853 ± 0.143	³ 0.802 ± 0.141	³ 0.794 ± 0.140	³ 0.867 ± 0.136	³ 0.870 ± 0.133	³ 0.854 ± 0.150	³ 0.827 ± 0.136
<i>yeast5</i>	^{2,3} 0.706 ± 0.114	^{2,3} 0.706 ± 0.078	^{2,3,7} 0.694 ± 0.081	^{2,3,7} 0.707 ± 0.091	^{2,3,7} 0.698 ± 0.080	^{2,3,7} 0.674 ± 0.084	³ 0.687 ± 0.082
<i>ecoli-0-4-6-vs-5</i>	⁶ 0.860 ± 0.134	^{3,6,7} 0.851 ± 0.141	⁶ 0.846 ± 0.134	^{6,7} 0.794 ± 0.133	⁶ 0.793 ± 0.142	⁶ 0.794 ± 0.142	⁶ 0.792 ± 0.144
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	^{4,5,6,7} 0.388 ± 0.185	^{4,5,6,7} 0.672 ± 0.094	^{4,5,6,7} 0.661 ± 0.121	³ 0.324 ± 0.185	³ 0.391 ± 0.184	³ 0.733 ± 0.102	³ 0.667 ± 0.172
<i>ecoli-0-1-vs-5</i>	⁴ 0.855 ± 0.117	^{1,4,5} 0.865 ± 0.105	^{1,4,5} 0.847 ± 0.106	⁴ 0.869 ± 0.108	⁴ 0.874 ± 0.102	^{all} 0.871 ± 0.109	^{1,4,5} 0.875 ± 0.102
<i>ecoli-0-2-6-7-vs-3-5</i>	³ 0.699 ± 0.217	³ 0.727 ± 0.135	³ 0.723 ± 0.130	³ 0.728 ± 0.186	³ 0.728 ± 0.174	³ 0.710 ± 0.179	³ 0.705 ± 0.185
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	^{2,3} 0.773 ± 0.159	^{2,3} 0.688 ± 0.123	^{2,3} 0.683 ± 0.117	^{2,3,6,7} 0.798 ± 0.119	^{2,3,6} 0.786 ± 0.121	^{2,3} 0.760 ± 0.126	^{2,3} 0.764 ± 0.126
<i>shuttle-c0-vs-c4</i>	^{2,3} 0.996 ± 0.008	^{2,3} 0.996 ± 0.008	^{2,3} 0.996 ± 0.008	^{2,3,6,7} 0.995 ± 0.008	^{2,3,6} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008
<i>ecoli-0-6-7-vs-3-5</i>	³ 0.689 ± 0.199	³ 0.708 ± 0.167	³ 0.710 ± 0.164	³ 0.719 ± 0.180	³ 0.722 ± 0.177	³ 0.701 ± 0.182	³ 0.716 ± 0.172
<i>vowel0</i>	⁶ 0.963 ± 0.046	⁶ 0.989 ± 0.020	⁶ 0.990 ± 0.019	⁶ 0.706 ± 0.115	⁶ 0.827 ± 0.085	⁶ 0.878 ± 0.071	⁶ 0.864 ± 0.078
<i>glass4</i>	^{4,5,6,7} 0.572 ± 0.309	^{1,4,5,6,7} 0.709 ± 0.248	^{1,4,5,6,7} 0.704 ± 0.247	⁴ 0.535 ± 0.231	⁴ 0.552 ± 0.249	^{4,5} 0.534 ± 0.242	^{4,5} 0.560 ± 0.254
<i>yeast-0-5-6-7-9-vs-4</i>	^{4,6} 0.405 ± 0.157	^{1,4,5,6,7} 0.564 ± 0.089	^{1,4,5,6,7} 0.557 ± 0.086	⁶ 0.558 ± 0.082	⁶ 0.548 ± 0.090	⁶ 0.485 ± 0.056	⁶ 0.520 ± 0.097
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	^{1,3,6,7} 0.626 ± 0.075	^{1,3,6,7} 0.554 ± 0.064	^{1,6,7} 0.536 ± 0.062	^{1,6,7} 0.621 ± 0.086	^{1,6,7} 0.625 ± 0.088	¹ 0.596 ± 0.093	^{1,6} 0.611 ± 0.087
<i>ecoli-0-1-vs-2-3-5</i>	^{2,3,6} 0.773 ± 0.150	³ 0.752 ± 0.141	³ 0.742 ± 0.137	^{2,3,6} 0.803 ± 0.136	^{2,3,6} 0.807 ± 0.131	^{2,3} 0.799 ± 0.134	^{2,3} 0.781 ± 0.143
<i>ecoli-0-3-4-vs-5</i>	^{2,3} 0.861 ± 0.162	^{2,3} 0.840 ± 0.156	^{2,3} 0.817 ± 0.154	^{1,2,3,7} 0.822 ± 0.162	^{1,2,3,7} 0.817 ± 0.164	^{2,3} 0.816 ± 0.165	³ 0.804 ± 0.175
<i>glass5</i>	^{3,4,5,6,7} 0.325 ± 0.332	^{3,7} 0.540 ± 0.320	^{3,7} 0.543 ± 0.321	³ 0.454 ± 0.250	³ 0.447 ± 0.229	³ 0.444 ± 0.224	³ 0.459 ± 0.243
<i>yeast4</i>	^{1,4,5,6,7} 0.170 ± 0.122	^{1,4,5,6,7} 0.385 ± 0.101	^{1,4,5,6,7} 0.375 ± 0.100	^{1,6} 0.384 ± 0.093	¹ 0.392 ± 0.091	¹ 0.345 ± 0.074	¹ 0.350 ± 0.072
<i>glass-0-4-vs-5</i>	^{1,3,6,7} 0.547 ± 0.415	^{1,3,6,7} 0.891 ± 0.147	^{1,6,7} 0.903 ± 0.138	^{1,6,7} 0.646 ± 0.272	^{1,6,7} 0.669 ± 0.276	¹ 0.668 ± 0.251	¹ 0.641 ± 0.272
<i>yeast6</i>	^{1,4,5,6,7} 0.553 ± 0.158	^{1,4,5,6,7} 0.473 ± 0.131	^{1,4,5,6,7} 0.470 ± 0.134	⁶ 0.528 ± 0.117	⁶ 0.506 ± 0.112	⁶ 0.461 ± 0.104	⁶ 0.458 ± 0.109
<i>page-blocks-1-3-vs-4</i>	^{2,3,5,6,7} 0.648 ± 0.152	^{2,3,5,6,7} 0.703 ± 0.113	^{2,3,5,6,7} 0.709 ± 0.114	^{2,3,5,6,7} 0.527 ± 0.183	^{2,3,6,7} 0.613 ± 0.183	^{2,3,6,7} 0.625 ± 0.177	^{2,3,6,7} 0.671 ± 0.172
<i>yeast-1-vs-7</i>	⁴ 0.101 ± 0.143	^{1,4,5,6} 0.294 ± 0.141	^{1,4,5,6} 0.304 ± 0.139	⁴ 0.230 ± 0.090	⁴ 0.227 ± 0.110	⁴ 0.227 ± 0.083	^{4,5} 0.225 ± 0.088
<i>ecoli-0-1-3-7-vs-2-6</i>	^{1,4,5,6,7} 0.727 ± 0.386	^{1,4,5,6,7} 0.533 ± 0.314	^{1,4,5,6,7} 0.554 ± 0.334	¹ 0.668 ± 0.394	¹ 0.586 ± 0.353	¹ 0.423 ± 0.270	¹ 0.531 ± 0.325
<i>yeast-1-4-5-8-vs-7</i>	^{all} 0.004 ± 0.031	⁶ 0.164 ± 0.107	⁶ 0.169 ± 0.111	^{2,3,5,6,7} 0.140 ± 0.065	⁶ 0.133 ± 0.056	⁶ 0.149 ± 0.068	⁶ 0.143 ± 0.055
<i>ecoli-0-1-4-7-vs-5-6</i>	^{1,5} 0.812 ± 0.160	^{1,5} 0.787 ± 0.111	^{1,5} 0.773 ± 0.104	¹ 0.832 ± 0.108	¹ 0.820 ± 0.117	¹ 0.800 ± 0.115	¹ 0.808 ± 0.133
<i>yeast-2-vs-8</i>	^{2,3,6} 0.661 ± 0.209	³ 0.551 ± 0.195	³ 0.536 ± 0.170	^{2,3,6} 0.661 ± 0.209	³ 0.665 ± 0.200	³ 0.660 ± 0.211	³ 0.656 ± 0.206
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	^{2,3} 0.829 ± 0.059	³ 0.750 ± 0.052	³ 0.736 ± 0.054	^{2,3} 0.823 ± 0.054	^{2,3} 0.822 ± 0.054	^{2,3} 0.819 ± 0.059	^{2,3} 0.819 ± 0.057
<i>glass2</i>	^{2,3,6} 0.152 ± 0.209	³ 0.366 ± 0.169	³ 0.356 ± 0.149	^{2,3} 0.337 ± 0.106	^{2,3} 0.328 ± 0.097	^{2,3} 0.300 ± 0.073	^{2,3} 0.319 ± 0.082
	^{1,5,6,7}	^{1,5,6,7}	^{1,5,6,7}	^{1,5,6,7}	^{1,6}	¹	^{1,6}

Table 3: Results for F1 metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	3.622	4.988	4.159	4.585	4.159	3.280	3.207
	—	1,3,6,7	7	1,6,7	6,7	—	—

Table 4: Results for mean ranks according to F1 metric

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.161 ± 0.334	0.289 ± 0.172	0.271 ± 0.142	0.228 ± 0.069	0.199 ± 0.055	0.191 ± 0.055	0.198 ± 0.064
<i>ecoli-0-3-4-7-vs-5-6</i>	— 0.944 ± 0.091	1,4,5,6,7 0.747 ± 0.149	1,4,5,6,7 0.710 ± 0.148	1,5,6,7 0.837 ± 0.145	1,6 0.815 ± 0.140	1 0.758 ± 0.144	1 0.783 ± 0.149
<i>shuttle-c2-vs-c4</i>	all 0.200 ± 0.400	3 1.000 ± 0.000	— 1.000 ± 0.000	2,3,6,7 0.740 ± 0.438	2,3,6 0.860 ± 0.346	— 0.740 ± 0.438	3 0.860 ± 0.346
<i>glass-0-1-4-6-vs-2</i>	— 0.133 ± 0.310	1,4,6 0.277 ± 0.118	1,4,6 0.272 ± 0.132	1 0.217 ± 0.074	1 0.198 ± 0.066	1 0.179 ± 0.063	1 0.193 ± 0.054
<i>yeast-1-2-8-9-vs-7</i>	— 0.070 ± 0.223	1,4,5,6,7 0.209 ± 0.115	1,4,5,6,7 0.200 ± 0.099	1,5,6,7 0.113 ± 0.051	1,6,7 0.109 ± 0.078	1 0.100 ± 0.037	1,6 0.109 ± 0.040
<i>ecoli-0-1-4-6-vs-5</i>	— 0.960 ± 0.100	all 0.883 ± 0.135	1,4,5,6,7 0.840 ± 0.136	1,5,6 0.867 ± 0.145	1 0.837 ± 0.141	1 0.859 ± 0.143	1,6 0.841 ± 0.139
<i>glass-0-1-6-vs-5</i>	all 0.373 ± 0.371	3 0.529 ± 0.267	— 0.530 ± 0.275	— 0.471 ± 0.253	— 0.448 ± 0.251	— 0.487 ± 0.244	— 0.457 ± 0.249
<i>yeast-2-vs-4</i>	— 0.922 ± 0.095	1,4,5,7 0.767 ± 0.111	1,5,7 0.753 ± 0.118	— 0.863 ± 0.101	— 0.850 ± 0.103	5,7 0.810 ± 0.131	— 0.811 ± 0.135
<i>glass-0-6-vs-5</i>	all 0.600 ± 0.469	— 0.768 ± 0.304	— 0.782 ± 0.266	2,3,6,7 0.748 ± 0.378	2,3,6,7 0.678 ± 0.397	2,3 0.805 ± 0.317	2,3 0.715 ± 0.359
<i>ecoli-0-3-4-6-vs-5</i>	— 0.946 ± 0.119	1 0.880 ± 0.146	1,5 0.839 ± 0.156	1 0.752 ± 0.167	— 0.746 ± 0.174	1,5,7 0.763 ± 0.177	— 0.742 ± 0.177
<i>yeast-0-3-5-9-vs-7-8</i>	all 0.605 ± 0.176	3,4,5,6,7 0.326 ± 0.070	4,5,6,7 0.310 ± 0.069	— 0.556 ± 0.181	— 0.516 ± 0.183	— 0.480 ± 0.180	— 0.506 ± 0.192
<i>glass-0-1-5-vs-2</i>	all 0.186 ± 0.333	3 0.281 ± 0.175	— 0.260 ± 0.132	2,3,5,6,7 0.219 ± 0.080	2,3 0.204 ± 0.072	2,3 0.180 ± 0.066	2,3 0.197 ± 0.059
<i>ecoli-0-6-7-vs-5</i>	— 0.953 ± 0.114	1,4,5,6,7 0.723 ± 0.193	1,4,5,6,7 0.696 ± 0.187	1,5,6,7 0.838 ± 0.191	1,6 0.815 ± 0.188	— 0.800 ± 0.193	6 0.768 ± 0.197
<i>ecoli-0-2-3-4-vs-5</i>	all 0.960 ± 0.092	— 0.835 ± 0.176	— 0.801 ± 0.182	2,3,7 0.846 ± 0.177	2,3 0.825 ± 0.174	2,3 0.837 ± 0.180	3 0.831 ± 0.180
<i>ecoli4</i>	all 0.973 ± 0.073	3 0.810 ± 0.180	— 0.791 ± 0.178	— 0.905 ± 0.132	— 0.876 ± 0.151	— 0.864 ± 0.167	— 0.818 ± 0.183
<i>yeast5</i>	all 0.794 ± 0.140	— 0.591 ± 0.089	— 0.576 ± 0.089	2,3,6,7 0.602 ± 0.100	2,3,7 0.575 ± 0.085	3,7 0.543 ± 0.088	— 0.569 ± 0.092
<i>ecoli-0-4-6-vs-5</i>	all 0.935 ± 0.135	3,5,6,7 0.873 ± 0.169	6 0.866 ± 0.165	5,6,7 0.780 ± 0.176	6 0.766 ± 0.179	— 0.780 ± 0.183	6 0.766 ± 0.186
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	all 0.782 ± 0.304	4,5,6,7 0.559 ± 0.098	4,5,6,7 0.569 ± 0.124	— 0.544 ± 0.310	— 0.504 ± 0.261	— 0.698 ± 0.122	— 0.602 ± 0.163
<i>ecoli-0-1-vs-5</i>	all 0.972 ± 0.076	— 0.904 ± 0.124	2 0.871 ± 0.140	— 0.965 ± 0.090	— 0.960 ± 0.094	2,3,4,5,7 0.954 ± 0.101	2,5 0.948 ± 0.109
<i>ecoli-0-2-6-7-vs-3-5</i>	2,3 0.933 ± 0.175	— 0.751 ± 0.190	— 0.708 ± 0.195	2,3 0.808 ± 0.198	2,3 0.802 ± 0.200	2,3 0.726 ± 0.212	2,3 0.723 ± 0.226
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	all 0.979 ± 0.065	3 0.681 ± 0.163	— 0.666 ± 0.155	3,6,7 0.914 ± 0.116	3,6,7 0.893 ± 0.135	— 0.822 ± 0.141	— 0.828 ± 0.171
<i>shuttle-c0-vs-c4</i>	all 1.000 ± 0.000	— 1.000 ± 0.000	— 1.000 ± 0.000	2,3,6,7 1.000 ± 0.000	2,3,6,7 1.000 ± 0.000	2,3 1.000 ± 0.000	2,3 1.000 ± 0.000
<i>ecoli-0-6-7-vs-3-5</i>	— 0.907 ± 0.169	— 0.738 ± 0.204	— 0.697 ± 0.198	— 0.811 ± 0.202	— 0.810 ± 0.201	— 0.743 ± 0.213	— 0.775 ± 0.202
<i>vowel0</i>	all 0.989 ± 0.027	— 0.979 ± 0.038	— 0.981 ± 0.036	2,3,6 0.840 ± 0.110	2,3,6 0.867 ± 0.090	— 0.889 ± 0.077	3 0.933 ± 0.074
<i>glass4</i>	4,5,6,7 0.728 ± 0.384	4,5,6,7 0.640 ± 0.271	4,5,6,7 0.632 ± 0.267	— 0.516 ± 0.276	4 0.511 ± 0.271	4,5 0.514 ± 0.285	4,5,6 0.521 ± 0.277
<i>yeast-0-5-6-7-9-vs-4</i>	all 0.647 ± 0.237	4,5,6,7 0.488 ± 0.106	4,5,6,7 0.475 ± 0.097	— 0.511 ± 0.109	— 0.487 ± 0.126	— 0.367 ± 0.065	— 0.424 ± 0.120
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	all 0.779 ± 0.092	3,6,7 0.475 ± 0.061	6,7 0.450 ± 0.060	3,5,6,7 0.721 ± 0.088	6,7 0.689 ± 0.102	— 0.673 ± 0.136	6 0.721 ± 0.107
<i>ecoli-0-1-vs-2-3-5</i>	all 0.968 ± 0.081	3 0.749 ± 0.164	— 0.732 ± 0.171	2,3,5,6 0.947 ± 0.114	2,3 0.943 ± 0.115	2,3 0.921 ± 0.129	2,3,5,6 0.887 ± 0.164
<i>ecoli-0-3-4-vs-5</i>	2,3,7 0.958 ± 0.111	— 0.874 ± 0.160	— 0.830 ± 0.165	2,3,7 0.830 ± 0.164	2,3,7 0.821 ± 0.172	2,3 0.820 ± 0.168	2,3 0.804 ± 0.180
<i>glass5</i>	all 0.377 ± 0.406	3 0.478 ± 0.309	— 0.476 ± 0.309	— 0.365 ± 0.242	— 0.344 ± 0.209	— 0.336 ± 0.191	— 0.358 ± 0.229
<i>yeast4</i>	— 0.358 ± 0.276	4,5,6,7 0.329 ± 0.098	4,5,6,7 0.308 ± 0.085	6 0.304 ± 0.080	— 0.316 ± 0.088	— 0.239 ± 0.053	— 0.244 ± 0.054
<i>glass-0-4-vs-5</i>	6,7 0.660 ± 0.473	3,4,6,7 0.853 ± 0.204	6,7 0.850 ± 0.200	6,7 0.646 ± 0.320	6,7 0.668 ± 0.331	— 0.652 ± 0.304	— 0.660 ± 0.336
<i>yeast6</i>	— 0.626 ± 0.178	1,4,5,6,7 0.383 ± 0.117	1,4,5,6,7 0.376 ± 0.117	— 0.434 ± 0.109	— 0.400 ± 0.106	— 0.343 ± 0.099	— 0.341 ± 0.113
<i>page-blocks-1-3-vs-4</i>	all 0.686 ± 0.174	6,7 0.584 ± 0.111	6,7 0.595 ± 0.121	2,3,5,6,7 0.542 ± 0.204	6,7 0.657 ± 0.214	— 0.637 ± 0.204	— 0.757 ± 0.206
<i>yeast-1-vs-7</i>	2,3,4 0.330 ± 0.464	— 0.261 ± 0.137	— 0.256 ± 0.124	— 0.158 ± 0.063	2,3,4 0.171 ± 0.095	4 0.146 ± 0.055	all 0.148 ± 0.058
<i>ecoli-0-1-3-7-vs-2-6</i>	— 0.790 ± 0.401	4,5,6,7 0.504 ± 0.356	4,5,6,7 0.536 ± 0.376	— 0.679 ± 0.417	7 0.569 ± 0.391	— 0.363 ± 0.308	— 0.505 ± 0.376
<i>yeast-1-4-5-8-vs-7</i>	all 0.007 ± 0.046	6 0.133 ± 0.094	6 0.132 ± 0.093	2,3,5,6,7 0.087 ± 0.042	6 0.081 ± 0.034	— 0.089 ± 0.042	6 0.085 ± 0.033
<i>ecoli-0-1-4-7-vs-5-6</i>	— 0.967 ± 0.091	1,4,5,6,7 0.769 ± 0.163	1,4,5,6,7 0.743 ± 0.162	1 0.895 ± 0.120	1 0.885 ± 0.135	1 0.809 ± 0.146	1 0.834 ± 0.156
<i>yeast-2-vs-8</i>	all 0.908 ± 0.200	3 0.576 ± 0.247	— 0.526 ± 0.217	2,3,6,7 0.908 ± 0.200	2,3,6,7 0.911 ± 0.190	3 0.898 ± 0.207	2,3 0.874 ± 0.214
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	2,3 0.871 ± 0.068	3 0.686 ± 0.065	— 0.663 ± 0.064	2,3 0.840 ± 0.063	2,3 0.829 ± 0.067	2,3 0.836 ± 0.071	2,3 0.831 ± 0.076
<i>glass2</i>	all 0.260 ± 0.387	3 0.290 ± 0.147	— 0.280 ± 0.132	2,3 0.221 ± 0.083	2,3 0.211 ± 0.075	2,3 0.186 ± 0.053	2,3 0.204 ± 0.061
	—	3,4,5,6,7	4,5,6,7	5,6,7	6	—	6

Table 5: Results for Precision metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	5.549	4.378	3.524	4.585	3.744	3.037	3.183
	3,4,5,6,7	3,6,7	—	3,5,6,7	—	—	—

Table 6: Results for mean ranks according to Precision metric

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.065 ± 0.123	0.513 ± 0.242	0.497 ± 0.251	0.802 ± 0.191	0.815 ± 0.193	0.827 ± 0.194	0.827 ± 0.194
<i>ecoli-0-3-4-7-vs-5-6</i>	$\overset{1}{0.744} \pm 0.196$	$\overset{1}{0.836} \pm 0.148$	$\overset{1}{0.840} \pm 0.149$	$\overset{1,2,3}{0.776} \pm 0.147$	$\overset{1,2,3}{0.776} \pm 0.153$	$\overset{1,2,3}{0.832} \pm 0.151$	$\overset{1,2,3}{0.792} \pm 0.149$
<i>shuttle-c2-vs-c4</i>	$\overset{1,4,5,7}{0.170} \pm 0.355$	$\overset{1,4,5,7}{0.990} \pm 0.069$	$\overset{1,4,5,7}{0.990} \pm 0.069$	$\overset{1}{0.710} \pm 0.436$	$\overset{1}{0.820} \pm 0.357$	$\overset{1,4,5,7}{0.720} \pm 0.437$	$\overset{1}{0.840} \pm 0.352$
<i>glass-0-1-4-6-vs-2</i>	$\overset{1,4,5,6}{0.055} \pm 0.122$	$\overset{1,4,5,6}{0.545} \pm 0.231$	$\overset{1,4,5,6}{0.525} \pm 0.252$	$\overset{1}{0.760} \pm 0.215$	$\overset{1}{0.772} \pm 0.210$	$\overset{1}{0.782} \pm 0.208$	$\overset{1}{0.780} \pm 0.189$
<i>yeast-1-2-8-9-vs-7</i>	$\overset{1}{0.017} \pm 0.049$	$\overset{1}{0.320} \pm 0.172$	$\overset{1}{0.347} \pm 0.172$	$\overset{1,2,3}{0.400} \pm 0.185$	$\overset{1,2,3}{0.400} \pm 0.208$	$\overset{1,2,3}{0.497} \pm 0.164$	$\overset{1,2,3}{0.503} \pm 0.171$
<i>ecoli-0-1-4-6-vs-5</i>	$\overset{1}{0.775} \pm 0.182$	$\overset{1}{0.850} \pm 0.150$	$\overset{1}{0.850} \pm 0.150$	$\overset{1,2,3}{0.815} \pm 0.164$	$\overset{1,2}{0.820} \pm 0.158$	$\overset{1,2,3,4,5}{0.820} \pm 0.158$	$\overset{1,2,3,4,5}{0.825} \pm 0.160$
<i>glass-0-1-6-vs-5</i>	$\overset{1}{0.360} \pm 0.316$	$\overset{1}{0.810} \pm 0.298$	$\overset{1}{0.800} \pm 0.300$	$\overset{1}{0.740} \pm 0.320$	$\overset{1}{0.730} \pm 0.319$	$\overset{1}{0.740} \pm 0.303$	$\overset{1}{0.750} \pm 0.304$
<i>yeast-2-vs-4</i>	$\overset{1}{0.647} \pm 0.132$	$\overset{1}{0.782} \pm 0.129$	$\overset{1}{0.789} \pm 0.126$	$\overset{1}{0.691} \pm 0.126$	$\overset{1}{0.707} \pm 0.131$	$\overset{1}{0.707} \pm 0.138$	$\overset{1}{0.729} \pm 0.130$
<i>glass-0-6-vs-5</i>	$\overset{1,4,5,6,7}{0.440} \pm 0.382$	$\overset{1,4,5,6,7}{0.870} \pm 0.279$	$\overset{1,4,5,6,7}{0.890} \pm 0.229$	$\overset{1}{0.630} \pm 0.357$	$\overset{1}{0.620} \pm 0.368$	$\overset{1}{0.680} \pm 0.312$	$\overset{1,4,6}{0.660} \pm 0.338$
<i>ecoli-0-3-4-6-vs-5</i>	$\overset{1,4,5,6,7}{0.795} \pm 0.185$	$\overset{1,4,5,6,7}{0.850} \pm 0.173$	$\overset{1,4,5,6,7}{0.850} \pm 0.173$	$\overset{1}{0.825} \pm 0.167$	$\overset{1}{0.835} \pm 0.170$	$\overset{1}{0.820} \pm 0.173$	$\overset{1}{0.820} \pm 0.173$
<i>yeast-0-3-5-9-vs-7-8</i>	$\overset{1}{0.306} \pm 0.115$	$\overset{1}{0.540} \pm 0.121$	$\overset{1}{0.550} \pm 0.118$	$\overset{1}{0.338} \pm 0.141$	$\overset{1}{0.338} \pm 0.121$	$\overset{1}{0.386} \pm 0.142$	$\overset{1}{0.356} \pm 0.123$
<i>glass-0-1-5-vs-2</i>	$\overset{1,4,5,6,7}{0.090} \pm 0.139$	$\overset{1,4,5,6,7}{0.513} \pm 0.286$	$\overset{1,4,5,6,7}{0.515} \pm 0.288$	$\overset{1}{0.745} \pm 0.266$	$\overset{1}{0.798} \pm 0.221$	$\overset{1,4,5}{0.768} \pm 0.247$	$\overset{1}{0.805} \pm 0.222$
<i>ecoli-0-6-7-vs-5</i>	$\overset{1,2,3}{0.685} \pm 0.216$	$\overset{1}{0.780} \pm 0.197$	$\overset{1}{0.790} \pm 0.195$	$\overset{1,2,3}{0.755} \pm 0.196$	$\overset{1,2,3}{0.750} \pm 0.193$	$\overset{1,2,3}{0.760} \pm 0.193$	$\overset{1,2,3}{0.770} \pm 0.205$
<i>ecoli-0-2-3-4-vs-5</i>	$\overset{1}{0.785} \pm 0.165$	$\overset{1}{0.850} \pm 0.158$	$\overset{1}{0.850} \pm 0.158$	$\overset{1}{0.835} \pm 0.155$	$\overset{1}{0.840} \pm 0.156$	$\overset{1}{0.840} \pm 0.156$	$\overset{1}{0.840} \pm 0.156$
<i>ecoli4</i>	$\overset{1}{0.790} \pm 0.202$	$\overset{1}{0.855} \pm 0.200$	$\overset{1}{0.855} \pm 0.200$	$\overset{1}{0.855} \pm 0.180$	$\overset{1}{0.885} \pm 0.159$	$\overset{1}{0.875} \pm 0.175$	$\overset{1}{0.880} \pm 0.167$
<i>yeast5</i>	$\overset{1}{0.647} \pm 0.127$	$\overset{1}{0.889} \pm 0.098$	$\overset{1}{0.889} \pm 0.106$	$\overset{1}{0.871} \pm 0.122$	$\overset{1}{0.901} \pm 0.104$	$\overset{1}{0.903} \pm 0.106$	$\overset{1}{0.882} \pm 0.098$
<i>ecoli-0-4-6-vs-5</i>	$\overset{1}{0.810} \pm 0.162$	$\overset{1}{0.850} \pm 0.158$	$\overset{1}{0.850} \pm 0.158$	$\overset{1}{0.835} \pm 0.155$	$\overset{1,4}{0.845} \pm 0.157$	$\overset{1,4,7}{0.835} \pm 0.162$	$\overset{1}{0.845} \pm 0.157$
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	$\overset{1}{0.279} \pm 0.155$	$\overset{1}{0.863} \pm 0.140$	$\overset{1}{0.816} \pm 0.173$	$\overset{1}{0.250} \pm 0.161$	$\overset{1}{0.339} \pm 0.170$	$\overset{1}{0.805} \pm 0.152$	$\overset{1}{0.799} \pm 0.243$
<i>ecoli-0-1-vs-5</i>	$\overset{1,3,4,5,6}{0.785} \pm 0.180$	$\overset{1,3,4,5,6}{0.850} \pm 0.150$	$\overset{1,4,5}{0.850} \pm 0.150$	$\overset{1}{0.810} \pm 0.162$	$\overset{1,4}{0.820} \pm 0.150$	$\overset{1,4,5}{0.820} \pm 0.158$	$\overset{1,4,5}{0.830} \pm 0.145$
<i>ecoli-0-2-6-7-vs-3-5</i>	$\overset{1}{0.597} \pm 0.251$	$\overset{1}{0.746} \pm 0.180$	$\overset{1}{0.788} \pm 0.170$	$\overset{1}{0.680} \pm 0.210$	$\overset{1}{0.691} \pm 0.199$	$\overset{1}{0.718} \pm 0.191$	$\overset{1}{0.714} \pm 0.182$
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	$\overset{1,4,5}{0.668} \pm 0.202$	$\overset{1,4,5}{0.733} \pm 0.167$	$\overset{1,4,5,6,7}{0.741} \pm 0.168$	$\overset{1}{0.730} \pm 0.164$	$\overset{1}{0.727} \pm 0.163$	$\overset{1}{0.729} \pm 0.161$	$\overset{1}{0.734} \pm 0.154$
<i>shuttle-c0-vs-c4</i>	$\overset{1}{0.992} \pm 0.016$	$\overset{1}{0.992} \pm 0.016$	$\overset{1}{0.992} \pm 0.016$	$\overset{1}{0.990} \pm 0.017$	$\overset{1}{0.990} \pm 0.017$	$\overset{1}{0.990} \pm 0.017$	$\overset{1}{0.990} \pm 0.017$
<i>ecoli-0-6-7-vs-3-5</i>	$\overset{1}{0.593} \pm 0.237$	$\overset{1}{0.724} \pm 0.205$	$\overset{1}{0.765} \pm 0.203$	$\overset{1}{0.672} \pm 0.201$	$\overset{1}{0.678} \pm 0.204$	$\overset{1}{0.690} \pm 0.203$	$\overset{1}{0.695} \pm 0.193$
<i>vowel0</i>	$\overset{1,4,5}{0.941} \pm 0.077$	$\overset{1,4,5}{1.000} \pm 0.000$	$\overset{all}{1.000} \pm 0.000$	$\overset{1}{0.621} \pm 0.137$	$\overset{1}{0.803} \pm 0.125$	$\overset{1}{0.876} \pm 0.103$	$\overset{1}{0.814} \pm 0.117$
<i>glass4</i>	$\overset{4,5,6,7}{0.513} \pm 0.310$	$\overset{1,4,5,6,7}{0.857} \pm 0.278$	$\overset{1,4,5,6,7}{0.857} \pm 0.278$	$\overset{1}{0.620} \pm 0.272$	$\overset{4}{0.660} \pm 0.294$	$\overset{4,5,7}{0.627} \pm 0.293$	$\overset{4}{0.663} \pm 0.299$
<i>yeast-0-5-6-7-9-vs-4</i>	$\overset{1,4,5,6,7}{0.317} \pm 0.153$	$\overset{1,4,5,6,7}{0.693} \pm 0.123$	$\overset{1,4,5,6,7}{0.695} \pm 0.123$	$\overset{1}{0.642} \pm 0.115$	$\overset{1}{0.661} \pm 0.107$	$\overset{1}{0.746} \pm 0.120$	$\overset{1}{0.722} \pm 0.125$
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	$\overset{1,4,5}{0.529} \pm 0.083$	$\overset{1,4,5}{0.673} \pm 0.093$	$\overset{1,4,5}{0.671} \pm 0.091$	$\overset{1}{0.555} \pm 0.106$	$\overset{1}{0.582} \pm 0.108$	$\overset{1,2,3,4,5}{0.554} \pm 0.111$	$\overset{1,4,5}{0.544} \pm 0.112$
<i>ecoli-0-1-vs-2-3-5</i>	$\overset{1,4,5,6,7}{0.670} \pm 0.187$	$\overset{1,4,5,6,7}{0.791} \pm 0.188$	$\overset{1,4,5,6,7}{0.791} \pm 0.184$	$\overset{1}{0.715} \pm 0.179$	$\overset{1,4,6,7}{0.723} \pm 0.173$	$\overset{1}{0.723} \pm 0.173$	$\overset{1}{0.722} \pm 0.173$
<i>ecoli-0-3-4-vs-5</i>	$\overset{1,4,5,6,7}{0.810} \pm 0.209$	$\overset{1,4,5,6,7}{0.850} \pm 0.200$	$\overset{1,4,5,6,7}{0.850} \pm 0.200$	$\overset{1}{0.845} \pm 0.205$	$\overset{1}{0.845} \pm 0.205$	$\overset{1}{0.840} \pm 0.204$	$\overset{1}{0.835} \pm 0.215$
<i>glass5</i>	$\overset{1}{0.310} \pm 0.330$	$\overset{1}{0.670} \pm 0.395$	$\overset{1}{0.690} \pm 0.398$	$\overset{1}{0.690} \pm 0.359$	$\overset{1}{0.740} \pm 0.363$	$\overset{1}{0.720} \pm 0.348$	$\overset{1}{0.740} \pm 0.363$
<i>yeast4</i>	$\overset{1}{0.117} \pm 0.088$	$\overset{1}{0.484} \pm 0.146$	$\overset{1}{0.497} \pm 0.156$	$\overset{1}{0.540} \pm 0.143$	$\overset{1}{0.542} \pm 0.146$	$\overset{1}{0.636} \pm 0.163$	$\overset{1}{0.638} \pm 0.149$
<i>glass-0-4-vs-5</i>	$\overset{1,2}{0.490} \pm 0.406$	$\overset{1}{0.970} \pm 0.118$	$\overset{1}{0.990} \pm 0.069$	$\overset{1,2}{0.730} \pm 0.319$	$\overset{1,2}{0.770} \pm 0.319$	$\overset{1,2,3,4,5}{0.780} \pm 0.302$	$\overset{1,2,3,4,5}{0.720} \pm 0.318$
<i>yeast6</i>	$\overset{1,4,5,6,7}{0.523} \pm 0.184$	$\overset{1,4,5,6,7}{0.649} \pm 0.196$	$\overset{1,4,5,6,7}{0.654} \pm 0.198$	$\overset{1}{0.700} \pm 0.178$	$\overset{1}{0.717} \pm 0.165$	$\overset{1}{0.746} \pm 0.169$	$\overset{1}{0.760} \pm 0.157$
<i>page-blocks-1-3-vs-4</i>	$\overset{1,2,3,4}{0.657} \pm 0.217$	$\overset{1}{0.901} \pm 0.144$	$\overset{1}{0.901} \pm 0.144$	$\overset{1,2}{0.541} \pm 0.207$	$\overset{1,2,3}{0.607} \pm 0.208$	$\overset{1,2,3,4}{0.658} \pm 0.232$	$\overset{1,2,3,4,5}{0.636} \pm 0.203$
<i>yeast-1-vs-7</i>	$\overset{4}{0.060} \pm 0.086$	$\overset{1,4,5,6,7}{0.373} \pm 0.195$	$\overset{1,4,5,6,7}{0.413} \pm 0.208$	$\overset{1}{0.447} \pm 0.183$	$\overset{1}{0.390} \pm 0.212$	$\overset{4,5}{0.537} \pm 0.219$	$\overset{4}{0.500} \pm 0.223$
<i>ecoli-0-1-3-7-vs-2-6</i>	$\overset{1,2}{0.700} \pm 0.400$	$\overset{1}{0.700} \pm 0.400$	$\overset{1,2}{0.700} \pm 0.400$	$\overset{1,2,5}{0.700} \pm 0.400$	$\overset{1}{0.700} \pm 0.400$	$\overset{1,2,3,4,5}{0.700} \pm 0.400$	$\overset{1,2,3,4,5}{0.700} \pm 0.400$
<i>yeast-1-4-5-8-vs-7</i>	$\overset{1}{0.003} \pm 0.023$	$\overset{1}{0.230} \pm 0.159$	$\overset{1}{0.253} \pm 0.173$	$\overset{1}{0.373} \pm 0.171$	$\overset{1}{0.390} \pm 0.193$	$\overset{1}{0.467} \pm 0.197$	$\overset{1}{0.467} \pm 0.185$
<i>ecoli-0-1-4-7-vs-5-6</i>	$\overset{1,2,3}{0.732} \pm 0.198$	$\overset{1}{0.840} \pm 0.144$	$\overset{1}{0.844} \pm 0.140$	$\overset{1,2,3}{0.796} \pm 0.157$	$\overset{1,2,3}{0.788} \pm 0.166$	$\overset{1,2,3,4,5}{0.812} \pm 0.146$	$\overset{1,2,3,4,5}{0.804} \pm 0.162$
<i>yeast-2-vs-8</i>	$\overset{1,4,5}{0.550} \pm 0.229$	$\overset{1,4,5}{0.590} \pm 0.248$	$\overset{1,4,5,7}{0.610} \pm 0.230$	$\overset{1}{0.550} \pm 0.229$	$\overset{1}{0.555} \pm 0.219$	$\overset{1}{0.550} \pm 0.229$	$\overset{1}{0.555} \pm 0.219$
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	$\overset{1,4,5,6,7}{0.797} \pm 0.084$	$\overset{1,4,5,6,7}{0.835} \pm 0.081$	$\overset{1,4,5,6,7}{0.834} \pm 0.084$	$\overset{1,4,5,6,7}{0.812} \pm 0.078$	$\overset{1,4,6,7}{0.821} \pm 0.076$	$\overset{1,4,6,7}{0.809} \pm 0.083$	$\overset{1,4,6,7}{0.814} \pm 0.076$
<i>glass2</i>	$\overset{1,4,5,6,7}{0.117} \pm 0.164$	$\overset{1,4,5,6,7}{0.537} \pm 0.265$	$\overset{1,4,5,6,7}{0.528} \pm 0.227$	$\overset{1}{0.757} \pm 0.193$	$\overset{1,6}{0.778} \pm 0.191$	$\overset{1}{0.808} \pm 0.174$	$\overset{1}{0.775} \pm 0.200$
	$\overset{1}{-}$	$\overset{1}{1}$	$\overset{1}{1}$	$\overset{1,2,3}{1}$	$\overset{1,2,3}{1}$	$\overset{1,2,3,4}{1}$	$\overset{1,2,3}{1}$

Table 7: Results for Recall metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	1.415	5.098	5.451	2.915	3.951	4.524	4.646
	$\overset{1,4,5}{-}$	$\overset{1,4,5}{1}$	$\overset{1,2,4,5}{1}$	$\overset{1}{1}$	$\overset{1,4}{1}$	$\overset{1,4}{1}$	$\overset{1,4,5}{1}$

Table 8: Results for mean ranks according to Recall metric

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.522 ± 0.062	0.686 ± 0.128	0.679 ± 0.126	0.763 ± 0.092	0.745 ± 0.090	0.739 ± 0.094	0.747 ± 0.096
<i>ecoli-0-3-4-7-vs-5-6</i>	[−] 0.869 ± 0.097	¹ 0.900 ± 0.071	¹ 0.898 ± 0.071	^{all} 0.879 ± 0.074	^{1,2,3,6} 0.878 ± 0.078	^{1,2,3} 0.900 ± 0.077	^{1,2,3} 0.883 ± 0.077
<i>shuttle-c2-vs-c4</i>	[−] 0.585 ± 0.177	³ 0.995 ± 0.034	[−] 0.995 ± 0.034	[−] 0.855 ± 0.218	[−] 0.910 ± 0.178	[−] 0.860 ± 0.218	[−] 0.920 ± 0.176
<i>glass-0-1-4-6-vs-2</i>	^{1,4,5,6} 0.518 ± 0.062	^{1,4,5,6} 0.707 ± 0.110	^{1,4,5,6} 0.699 ± 0.122	¹ 0.750 ± 0.113	¹ 0.740 ± 0.106	¹ 0.721 ± 0.106	¹ 0.738 ± 0.098
<i>yeast-1-2-8-9-vs-7</i>	[−] 0.508 ± 0.024	¹ 0.640 ± 0.086	¹ 0.650 ± 0.087	^{1,5,6,7} 0.649 ± 0.091	^{1,3,6} 0.643 ± 0.095	¹ 0.674 ± 0.084	^{1,6} 0.682 ± 0.087
<i>ecoli-0-1-4-6-vs-5</i>	[−] 0.886 ± 0.091	¹ 0.920 ± 0.075	¹ 0.918 ± 0.074	¹ 0.901 ± 0.080	¹ 0.903 ± 0.077	^{1,2,5} 0.904 ± 0.078	^{1,2,3,4,5} 0.905 ± 0.078
<i>glass-0-1-6-vs-5</i>	[−] 0.668 ± 0.151	^{3,4,5,6,7} 0.884 ± 0.147	[−] 0.879 ± 0.150	[−] 0.845 ± 0.160	[−] 0.838 ± 0.160	[−] 0.846 ± 0.153	[−] 0.847 ± 0.154
<i>yeast-2-vs-4</i>	[−] 0.820 ± 0.066	^{1,4,5,7} 0.877 ± 0.063	^{1,5,7} 0.879 ± 0.061	¹ 0.839 ± 0.063	¹ 0.846 ± 0.065	¹ 0.843 ± 0.068	^{1,6} 0.853 ± 0.063
<i>glass-0-6-vs-5</i>	[−] 0.714 ± 0.194	^{1,4,5,6,7} 0.920 ± 0.139	^{1,4,5,6,7} 0.930 ± 0.113	[−] 0.805 ± 0.181	¹ 0.796 ± 0.187	¹ 0.830 ± 0.155	¹ 0.816 ± 0.170
<i>ecoli-0-3-4-6-vs-5</i>	[−] 0.895 ± 0.094	^{1,4,5,6,7} 0.917 ± 0.087	^{1,4,5,6,7} 0.914 ± 0.087	¹ 0.896 ± 0.088	¹ 0.900 ± 0.090	^{1,5} 0.895 ± 0.092	¹ 0.893 ± 0.092
<i>yeast-0-3-5-9-vs-7-8</i>	^{6,7} 0.641 ± 0.058	^{3,4,5,6,7} 0.707 ± 0.060	^{4,5,6,7} 0.706 ± 0.059	¹ 0.652 ± 0.067	¹ 0.650 ± 0.061	[−] 0.666 ± 0.066	[−] 0.655 ± 0.057
<i>glass-0-1-5-vs-2</i>	[−] 0.533 ± 0.066	^{all} 0.682 ± 0.145	^{1,4,5,6,7} 0.681 ± 0.142	[−] 0.728 ± 0.131	[−] 0.727 ± 0.108	¹ 0.690 ± 0.126	[−] 0.723 ± 0.105
<i>ecoli-0-6-7-vs-5</i>	[−] 0.840 ± 0.108	¹ 0.872 ± 0.098	¹ 0.874 ± 0.096	^{1,3,5,6,7} 0.869 ± 0.102	^{1,3,6} 0.865 ± 0.100	¹ 0.869 ± 0.099	^{1,6} 0.871 ± 0.107
<i>ecoli-0-2-3-4-vs-5</i>	[−] 0.890 ± 0.083	[−] 0.913 ± 0.080	[−] 0.910 ± 0.079	[−] 0.907 ± 0.080	[−] 0.908 ± 0.080	[−] 0.908 ± 0.080	[−] 0.908 ± 0.080
<i>ecoli4</i>	[−] 0.894 ± 0.100	³ 0.919 ± 0.097	[−] 0.918 ± 0.097	[−] 0.924 ± 0.091	[−] 0.938 ± 0.081	[−] 0.932 ± 0.088	[−] 0.932 ± 0.082
<i>yeast5</i>	[−] 0.821 ± 0.064	[−] 0.935 ± 0.049	[−] 0.934 ± 0.053	^{2,3} 0.926 ± 0.061	^{1,2,3,7} 0.940 ± 0.052	^{2,3,7} 0.940 ± 0.053	³ 0.930 ± 0.049
<i>ecoli-0-4-6-vs-5</i>	[−] 0.901 ± 0.084	^{1,3} 0.916 ± 0.082	¹ 0.916 ± 0.081	¹ 0.902 ± 0.080	^{1,6,7} 0.906 ± 0.083	¹ 0.902 ± 0.085	¹ 0.906 ± 0.083
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	[−] 0.635 ± 0.077	^{4,5,6,7} 0.899 ± 0.069	^{4,5,6,7} 0.878 ± 0.086	¹ 0.615 ± 0.080	¹ 0.653 ± 0.087	¹ 0.885 ± 0.073	¹ 0.874 ± 0.119
<i>ecoli-0-1-vs-5</i>	⁴ 0.891 ± 0.089	^{1,4,5} 0.920 ± 0.074	^{1,4,5,7} 0.918 ± 0.074	[−] 0.903 ± 0.081	⁴ 0.908 ± 0.075	^{1,4,5} 0.908 ± 0.079	^{1,4,5} 0.912 ± 0.072
<i>ecoli-0-2-6-7-vs-3-5</i>	[−] 0.797 ± 0.125	[−] 0.856 ± 0.087	[−] 0.872 ± 0.081	[−] 0.831 ± 0.109	[−] 0.835 ± 0.103	[−] 0.842 ± 0.100	[−] 0.839 ± 0.099
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	[−] 0.833 ± 0.100	¹ 0.848 ± 0.082	^{1,4,5,6,7} 0.850 ± 0.081	[−] 0.861 ± 0.081	[−] 0.858 ± 0.081	¹ 0.856 ± 0.081	[−] 0.858 ± 0.077
<i>shuttle-c0-vs-c4</i>	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	^{2,3,6,7} 0.995 ± 0.008	^{2,3,6} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008
<i>ecoli-0-6-7-vs-3-5</i>	[−] 0.792 ± 0.119	[−] 0.845 ± 0.104	[−] 0.861 ± 0.102	[−] 0.826 ± 0.104	[−] 0.829 ± 0.105	[−] 0.830 ± 0.106	[−] 0.834 ± 0.100
<i>vowel0</i>	[−] 0.970 ± 0.038	[−] 0.999 ± 0.002	¹ 0.999 ± 0.002	[−] 0.804 ± 0.068	[−] 0.895 ± 0.062	[−] 0.932 ± 0.052	[−] 0.904 ± 0.058
<i>glass4</i>	^{4,5,6,7} 0.750 ± 0.158	^{1,4,5,6,7} 0.909 ± 0.143	^{1,4,5,6,7} 0.909 ± 0.143	[−] 0.786 ± 0.141	⁴ 0.805 ± 0.152	^{4,5,7} 0.789 ± 0.150	^{4,5} 0.808 ± 0.154
<i>yeast-0-5-6-7-9-vs-4</i>	[−] 0.649 ± 0.074	^{1,4,5,6,7} 0.805 ± 0.060	^{1,4,5,6,7} 0.804 ± 0.059	[−] 0.785 ± 0.054	[−] 0.789 ± 0.050	[−] 0.801 ± 0.050	[−] 0.801 ± 0.059
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	[−] 0.756 ± 0.042	^{1,3,4,5} 0.795 ± 0.046	^{1,4,5} 0.790 ± 0.045	¹ 0.765 ± 0.052	¹ 0.776 ± 0.053	^{1,4} 0.760 ± 0.053	^{1,4} 0.760 ± 0.054
<i>ecoli-0-1-vs-2-3-5</i>	[−] 0.833 ± 0.093	^{all} 0.879 ± 0.093	^{1,4,5,6,7} 0.877 ± 0.091	[−] 0.855 ± 0.090	^{1,4,6,7} 0.859 ± 0.087	[−] 0.858 ± 0.087	[−] 0.855 ± 0.088
<i>ecoli-0-3-4-vs-5</i>	[−] 0.903 ± 0.105	¹ 0.916 ± 0.100	¹ 0.913 ± 0.098	[−] 0.912 ± 0.104	^{1,7} 0.911 ± 0.104	[−] 0.909 ± 0.104	[−] 0.905 ± 0.110
<i>glass5</i>	[−] 0.648 ± 0.165	^{3,7} 0.820 ± 0.198	[−] 0.829 ± 0.199	[−] 0.815 ± 0.180	[−] 0.837 ± 0.180	¹ 0.827 ± 0.175	¹ 0.838 ± 0.181
<i>yeast4</i>	[−] 0.555 ± 0.043	^{1,4} 0.724 ± 0.072	^{1,4,6} 0.728 ± 0.076	¹ 0.747 ± 0.071	^{1,3} 0.749 ± 0.071	^{1,4} 0.782 ± 0.079	^{1,3} 0.783 ± 0.072
<i>glass-0-4-vs-5</i>	[−] 0.744 ± 0.204	¹ 0.971 ± 0.064	¹ 0.981 ± 0.045	^{1,2} 0.838 ± 0.156	^{1,2} 0.856 ± 0.159	^{1,2,3,4,5} 0.860 ± 0.147	^{1,2,3,4,5} 0.832 ± 0.159
<i>yeast6</i>	[−] 0.757 ± 0.091	^{1,4,5,6,7} 0.811 ± 0.097	^{1,4,5,6,7} 0.813 ± 0.098	[−] 0.839 ± 0.088	¹ 0.845 ± 0.082	¹ 0.854 ± 0.082	¹ 0.860 ± 0.076
<i>page-blocks-1-3-vs-4</i>	[−] 0.818 ± 0.106	¹ 0.929 ± 0.073	¹ 0.930 ± 0.072	^{1,2,3} 0.756 ± 0.102	^{1,2,3} 0.792 ± 0.105	^{1,2,3} 0.816 ± 0.114	^{1,2,3} 0.810 ± 0.102
<i>yeast-1-vs-7</i>	⁴ 0.529 ± 0.043	^{1,4,5,6,7} 0.646 ± 0.099	^{1,4,5,6,7} 0.661 ± 0.105	[−] 0.637 ± 0.092	⁴ 0.622 ± 0.098	⁴ 0.656 ± 0.104	^{4,5} 0.649 ± 0.104
<i>ecoli-0-1-3-7-vs-2-6</i>	[−] 0.850 ± 0.200	¹ 0.840 ± 0.197	^{1,5} 0.841 ± 0.197	¹ 0.842 ± 0.208	¹ 0.837 ± 0.206	^{1,5} 0.827 ± 0.199	^{1,5} 0.835 ± 0.202
<i>yeast-1-4-5-8-vs-7</i>	^{all} 0.501 ± 0.010	^{6,7} 0.580 ± 0.079	^{6,7} 0.588 ± 0.086	^{5,6,7} 0.596 ± 0.086	⁶ 0.594 ± 0.091	[−] 0.623 ± 0.102	⁶ 0.618 ± 0.093
<i>ecoli-0-1-4-7-vs-5-6</i>	[−] 0.865 ± 0.098	¹ 0.907 ± 0.070	¹ 0.908 ± 0.067	¹ 0.894 ± 0.078	¹ 0.889 ± 0.083	^{1,2,3,5} 0.897 ± 0.073	^{1,2,3} 0.894 ± 0.082
<i>yeast-2-vs-8</i>	[−] 0.774 ± 0.114	[−] 0.784 ± 0.122	² 0.790 ± 0.112	[−] 0.773 ± 0.116	[−] 0.776 ± 0.111	⁴ 0.773 ± 0.116	[−] 0.775 ± 0.111
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	[−] 0.892 ± 0.042	^{1,4,5,6,7} 0.896 ± 0.039	² 0.894 ± 0.041	[−] 0.897 ± 0.039	[−] 0.901 ± 0.038	[−] 0.896 ± 0.041	[−] 0.898 ± 0.037
<i>glass2</i>	[−] 0.547 ± 0.083	³ 0.710 ± 0.131	¹ 0.703 ± 0.111	[−] 0.755 ± 0.106	^{1,3} 0.757 ± 0.103	[−] 0.746 ± 0.093	[−] 0.753 ± 0.102
	[−]	¹	¹	^{1,2,3,6,7}	^{1,2,3,4,6}	^{1,2,3}	^{1,2,3,6}

Table 9: Results for AUC metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	1.585	5.256	5.232	3.402	4.037	4.134	4.354
	−	1,4,5,6	1,4,5,6	1	1,4	1,4	1,4

Table 10: Results for mean ranks according to AUC metric

Dataset	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>glass-0-1-6-vs-2</i>	0.118 ± 0.222	0.637 ± 0.192	0.618 ± 0.208	0.753 ± 0.095	0.733 ± 0.092	0.724 ± 0.094	0.734 ± 0.097
<i>ecoli-0-3-4-7-vs-5-6</i>	[−] 0.852 ± 0.116	¹ 0.894 ± 0.079	¹ 0.892 ± 0.078	^{all} 0.869 ± 0.085	^{1,2,3,6} 0.867 ± 0.088	^{1,2,3} 0.894 ± 0.085	^{1,2,3,6} 0.874 ± 0.085
<i>shuttle-c2-vs-c4</i>	[−] 0.182 ± 0.369	³ 0.994 ± 0.041	[−] 0.994 ± 0.041	[−] 0.722 ± 0.433	[−] 0.837 ± 0.346	[−] 0.728 ± 0.435	[−] 0.848 ± 0.347
<i>glass-0-1-4-6-vs-2</i>	[−] 0.098 ± 0.210	^{1,4,5,6} 0.660 ± 0.183	^{1,4,5,6} 0.636 ± 0.225	¹ 0.739 ± 0.120	¹ 0.724 ± 0.141	¹ 0.709 ± 0.107	¹ 0.729 ± 0.099
<i>yeast-1-2-8-9-vs-7</i>	[−] 0.041 ± 0.122	¹ 0.515 ± 0.205	¹ 0.545 ± 0.183	^{1,3,5,6,7} 0.573 ± 0.173	^{1,2,3,6} 0.550 ± 0.217	¹ 0.640 ± 0.116	^{1,3,5,6} 0.647 ± 0.119
<i>ecoli-0-1-4-6-vs-5</i>	[−] 0.873 ± 0.105	¹ 0.913 ± 0.083	¹ 0.911 ± 0.082	^{1,2} 0.892 ± 0.092	¹ 0.894 ± 0.088	^{1,2,3,4,5} 0.895 ± 0.088	^{1,2,3,4,5} 0.897 ± 0.089
<i>glass-0-1-6-vs-5</i>	[−] 0.459 ± 0.368	^{3,4,5,6,7} 0.844 ± 0.247	[−] 0.839 ± 0.248	[−] 0.794 ± 0.269	[−] 0.786 ± 0.268	[−] 0.803 ± 0.245	[−] 0.805 ± 0.245
<i>yeast-2-vs-4</i>	[−] 0.797 ± 0.083	^{1,5,7} 0.868 ± 0.072	^{1,5,7} 0.871 ± 0.070	¹ 0.822 ± 0.076	¹ 0.831 ± 0.078	¹ 0.828 ± 0.081	¹ 0.840 ± 0.074
<i>glass-0-6-vs-5</i>	[−] 0.521 ± 0.407	^{1,4,5,6,7} 0.885 ± 0.244	^{1,4,5,6,7} 0.912 ± 0.171	[−] 0.711 ± 0.336	¹ 0.694 ± 0.350	¹ 0.772 ± 0.264	¹ 0.741 ± 0.305
<i>ecoli-0-3-4-6-vs-5</i>	[−] 0.883 ± 0.108	^{1,4,5,6,7} 0.910 ± 0.098	^{1,4,5,6,7} 0.907 ± 0.098	¹ 0.889 ± 0.098	¹ 0.893 ± 0.100	^{1,5} 0.886 ± 0.102	¹ 0.885 ± 0.103
<i>yeast-0-3-5-9-vs-7-8</i>	[−] 0.533 ± 0.123	^{3,4,5,6,7} 0.682 ± 0.080	^{4,5,6,7} 0.684 ± 0.078	¹ 0.554 ± 0.136	¹ 0.556 ± 0.125	¹ 0.588 ± 0.133	¹ 0.569 ± 0.119
<i>glass-0-1-5-vs-2</i>	[−] 0.161 ± 0.246	^{1,4,5,6,7} 0.612 ± 0.248	^{all} 0.610 ± 0.247	[−] 0.706 ± 0.166	[−] 0.707 ± 0.140	^{1,5} 0.666 ± 0.151	¹ 0.701 ± 0.137
<i>ecoli-0-6-7-vs-5</i>	[−] 0.814 ± 0.139	¹ 0.858 ± 0.116	¹ 0.862 ± 0.114	^{1,2,3,6,7} 0.854 ± 0.120	^{1,2,3,4,6} 0.850 ± 0.118	¹ 0.854 ± 0.117	^{1,2,3,6} 0.857 ± 0.125
<i>ecoli-0-2-3-4-vs-5</i>	[−] 0.878 ± 0.100	⁴ 0.906 ± 0.089	[−] 0.903 ± 0.088	[−] 0.900 ± 0.088	[−] 0.901 ± 0.089	[−] 0.902 ± 0.089	[−] 0.901 ± 0.088
<i>ecoli4</i>	[−] 0.879 ± 0.124	³ 0.908 ± 0.116	[−] 0.908 ± 0.116	[−] 0.916 ± 0.104	^{1,2,3,7} 0.932 ± 0.091	^{2,3} 0.924 ± 0.104	^{3,6} 0.925 ± 0.094
<i>yeast5</i>	[−] 0.798 ± 0.083	[−] 0.932 ± 0.053	[−] 0.931 ± 0.057	^{2,3} 0.922 ± 0.067	^{1,2,3,7} 0.937 ± 0.056	^{2,3} 0.937 ± 0.058	^{3,6} 0.928 ± 0.053
<i>ecoli-0-4-6-vs-5</i>	[−] 0.892 ± 0.095	¹ 0.910 ± 0.091	¹ 0.909 ± 0.090	¹ 0.896 ± 0.088	^{1,6,7} 0.900 ± 0.091	¹ 0.895 ± 0.094	¹ 0.900 ± 0.091
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	[−] 0.494 ± 0.179	^{4,5,6,7} 0.895 ± 0.075	^{4,5,6,7} 0.870 ± 0.099	¹ 0.450 ± 0.205	¹ 0.545 ± 0.177	¹ 0.876 ± 0.088	¹ 0.855 ± 0.162
<i>ecoli-0-1-vs-5</i>	⁴ 0.879 ± 0.104	^{1,4,5} 0.913 ± 0.083	^{1,4,5,7} 0.912 ± 0.082	[−] 0.894 ± 0.092	⁴ 0.900 ± 0.084	^{1,4,5} 0.899 ± 0.089	^{1,4,5} 0.905 ± 0.081
<i>ecoli-0-2-6-7-vs-3-5</i>	[−] 0.747 ± 0.192	[−] 0.841 ± 0.106	[−] 0.861 ± 0.093	[−] 0.807 ± 0.136	[−] 0.813 ± 0.127	¹ 0.825 ± 0.122	[−] 0.822 ± 0.116
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	[−] 0.805 ± 0.133	¹ 0.833 ± 0.098	^{1,4,5,7} 0.836 ± 0.098	[−] 0.845 ± 0.099	[−] 0.842 ± 0.099	¹ 0.841 ± 0.098	[−] 0.844 ± 0.093
<i>shuttle-c0-vs-c4</i>	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	[−] 0.996 ± 0.008	^{2,3,6,7} 0.995 ± 0.008	^{2,3,6} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008	^{2,3} 0.995 ± 0.008
<i>ecoli-0-6-7-vs-3-5</i>	[−] 0.750 ± 0.159	[−] 0.826 ± 0.127	[−] 0.847 ± 0.120	[−] 0.802 ± 0.129	[−] 0.805 ± 0.130	[−] 0.809 ± 0.130	[−] 0.814 ± 0.121
<i>vowel0</i>	[−] 0.969 ± 0.041	[−] 0.999 ± 0.002	¹ 0.999 ± 0.002	[−] 0.778 ± 0.091	[−] 0.887 ± 0.072	[−] 0.929 ± 0.056	[−] 0.897 ± 0.066
<i>glass4</i>	^{4,5,6,7} 0.641 ± 0.310	^{1,4,5,6,7} 0.875 ± 0.243	^{1,4,5,6,7} 0.875 ± 0.243	[−] 0.735 ± 0.230	⁴ 0.751 ± 0.258	^{4,5,7} 0.730 ± 0.255	^{4,5} 0.753 ± 0.260
<i>yeast-0-5-6-7-9-vs-4</i>	[−] 0.532 ± 0.164	^{1,4,5,6,7} 0.793 ± 0.071	^{1,4,5,6,7} 0.793 ± 0.070	[−] 0.768 ± 0.066	[−] 0.775 ± 0.060	[−] 0.795 ± 0.057	[−] 0.793 ± 0.067
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	[−] 0.719 ± 0.058	^{1,3,4,5} 0.784 ± 0.055	^{1,4,5} 0.779 ± 0.053	¹ 0.732 ± 0.072	¹ 0.748 ± 0.071	^{1,4,5} 0.727 ± 0.072	^{1,4} 0.724 ± 0.073
<i>ecoli-0-1-vs-2-3-5</i>	[−] 0.807 ± 0.125	^{all} 0.867 ± 0.111	^{1,4,5,6,7} 0.866 ± 0.108	[−] 0.836 ± 0.110	^{1,4,6,7} 0.842 ± 0.106	[−] 0.841 ± 0.106	[−] 0.838 ± 0.106
<i>ecoli-0-3-4-vs-5</i>	[−] 0.888 ± 0.132	¹ 0.905 ± 0.122	¹ 0.902 ± 0.121	[−] 0.901 ± 0.126	^{1,7} 0.900 ± 0.126	[−] 0.898 ± 0.126	[−] 0.893 ± 0.135
<i>glass5</i>	[−] 0.394 ± 0.387	³ 0.713 ± 0.376	[−] 0.723 ± 0.379	[−] 0.738 ± 0.324	[−] 0.762 ± 0.328	¹ 0.760 ± 0.308	¹ 0.763 ± 0.329
<i>yeast4</i>	[−] 0.288 ± 0.183	¹ 0.674 ± 0.108	¹ 0.681 ± 0.113	^{1,3} 0.711 ± 0.098	^{1,3} 0.713 ± 0.097	^{1,3,4} 0.761 ± 0.100	¹ 0.764 ± 0.091
<i>glass-0-4-vs-5</i>	[−] 0.560 ± 0.419	¹ 0.969 ± 0.072	¹ 0.981 ± 0.048	^{1,2} 0.784 ± 0.267	^{1,2} 0.807 ± 0.269	^{1,2,3,4,5} 0.818 ± 0.243	^{1,2,3,4,5} 0.779 ± 0.266
<i>yeast6</i>	[−] 0.707 ± 0.136	^{1,4,5,6,7} 0.784 ± 0.129	^{1,4,5,6,7} 0.787 ± 0.130	[−] 0.819 ± 0.115	¹ 0.829 ± 0.101	¹ 0.841 ± 0.101	¹ 0.849 ± 0.091
<i>page-blocks-1-3-vs-4</i>	[−] 0.789 ± 0.138	¹ 0.925 ± 0.081	¹ 0.926 ± 0.081	^{1,2,3} 0.700 ± 0.187	^{1,2,3} 0.753 ± 0.163	^{1,2,3} 0.781 ± 0.171	^{1,2,3} 0.781 ± 0.131
<i>yeast-1-vs-7</i>	⁴ 0.142 ± 0.199	^{1,4,5,6,7} 0.553 ± 0.192	^{1,4,5,6,7} 0.583 ± 0.187	[−] 0.594 ± 0.129	⁴ 0.545 ± 0.174	⁴ 0.628 ± 0.131	^{4,5} 0.604 ± 0.173
<i>ecoli-0-1-3-7-vs-2-6</i>	[−] 0.741 ± 0.387	¹ 0.733 ± 0.382	^{1,5} 0.734 ± 0.383	¹ 0.738 ± 0.387	¹ 0.734 ± 0.383	^{1,2,5} 0.724 ± 0.377	^{1,2,5} 0.731 ± 0.381
<i>yeast-1-4-5-8-vs-7</i>	^{all} 0.008 ± 0.056	⁶ 0.416 ± 0.200	⁶ 0.434 ± 0.211	^{2,3,5,6,7} 0.530 ± 0.156	⁶ 0.531 ± 0.160	[−] 0.580 ± 0.166	⁶ 0.582 ± 0.142
<i>ecoli-0-1-4-7-vs-5-6</i>	[−] 0.844 ± 0.132	¹ 0.901 ± 0.078	¹ 0.902 ± 0.074	^{1,2,3} 0.884 ± 0.088	^{1,2,3} 0.878 ± 0.094	^{1,2,3,5} 0.889 ± 0.081	^{1,2,3,4} 0.885 ± 0.093
<i>yeast-2-vs-8</i>	[−] 0.718 ± 0.181	[−] 0.735 ± 0.187	² 0.754 ± 0.151	[−] 0.718 ± 0.181	[−] 0.728 ± 0.154	⁴ 0.718 ± 0.181	[−] 0.727 ± 0.154
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	[−] 0.885 ± 0.047	^{1,4,5,6,7} 0.893 ± 0.043	² 0.890 ± 0.045	[−] 0.892 ± 0.043	[−] 0.896 ± 0.042	[−] 0.890 ± 0.046	[−] 0.893 ± 0.042
<i>glass2</i>	[−] 0.201 ± 0.271	³ 0.651 ± 0.217	[−] 0.653 ± 0.184	[−] 0.748 ± 0.109	¹ 0.749 ± 0.105	[−] 0.737 ± 0.092	[−] 0.744 ± 0.104
	[−]	¹	¹	^{1,2,3,6,7}	^{1,2,3,4,6}	^{1,2,3}	^{1,2,3,6}

Table 11: Results for GMEAN metric

	kNN (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
<i>Mean rank</i>	1.524	5.159	5.061	3.415	4.134	4.207	4.500
	−	1,4,5,6	1,4,6	1	1,4	1,4	1,4

Table 12: Results for mean ranks according to GMEAN metric