

Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA (6)	OTBA (7)
<i>glass-0-1-4-6-vs-2</i>	0.518 ± 0.062	0.514 ± 0.052	0.721 ± 0.110	0.516 ± 0.056	0.710 ± 0.113	0.729 ± 0.121	0.744 ± 0.102
<i>ecoli-0-6-7-vs-3-5</i>	0.792 ± 0.119	0.797 ± 0.120	0.846 ± 0.095	0.795 ± 0.117	0.870 ± 0.096	0.887 ± 0.073	0.880 ± 0.073
<i>ecoli-0-3-4-7-vs-5-6</i>	0.869 ± 0.097	0.877 ± 0.086	0.899 ± 0.072	0.879 ± 0.086	0.897 ± 0.072	0.880 ± 0.068	0.873 ± 0.066
<i>glass4</i>	0.750 ± 0.158	0.755 ± 0.155	0.929 ± 0.100	0.789 ± 0.158	0.928 ± 0.099	0.907 ± 0.099	0.907 ± 0.099
<i>glass-0-6-vs-5</i>	0.714 ± 0.194	0.709 ± 0.191	0.920 ± 0.139	0.714 ± 0.195	0.925 ± 0.127	0.952 ± 0.080	0.952 ± 0.080
<i>vowel0</i>	0.970 ± 0.038	0.975 ± 0.036	0.999 ± 0.001	0.979 ± 0.036	0.999 ± 0.001	0.972 ± 0.027	0.979 ± 0.014
<i>ecoli4</i>	0.894 ± 0.100	0.894 ± 0.103	0.916 ± 0.097	0.894 ± 0.103	0.915 ± 0.096	0.944 ± 0.047	0.944 ± 0.047
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	0.635 ± 0.077	0.644 ± 0.089	0.900 ± 0.060	0.653 ± 0.099	0.876 ± 0.092	0.660 ± 0.094	0.664 ± 0.083
<i>shuttle-c0-vs-c4</i>	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 ± 0.006
<i>ecoli-0-3-4-vs-5</i>	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 ± 0.094
<i>yeast-0-3-5-9-vs-7-8</i>	0.641 ± 0.058	0.629 ± 0.047	0.715 ± 0.057	0.629 ± 0.049	0.719 ± 0.056	0.700 ± 0.070	0.716 ± 0.062
<i>ecoli-0-2-6-7-vs-3-5</i>	0.797 ± 0.125	0.817 ± 0.120	0.859 ± 0.092	0.813 ± 0.119	0.879 ± 0.080	0.880 ± 0.069	0.873 ± 0.068
<i>ecoli-0-6-7-vs-5</i>	0.840 ± 0.108	0.843 ± 0.105	0.876 ± 0.099	0.838 ± 0.103	0.876 ± 0.100	0.859 ± 0.089	0.853 ± 0.088
<i>page-blocks-1-3-vs-4</i>	0.818 ± 0.106	0.840 ± 0.099	0.931 ± 0.067	0.845 ± 0.101	0.931 ± 0.068	0.939 ± 0.034	0.939 ± 0.034
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	0.892 ± 0.042	0.895 ± 0.041	0.898 ± 0.040	0.893 ± 0.041	0.898 ± 0.040	0.886 ± 0.029	0.883 ± 0.029
<i>ecoli-0-2-3-4-vs-5</i>	0.890 ± 0.083	0.895 ± 0.081	0.913 ± 0.078	0.895 ± 0.085	0.910 ± 0.078	0.903 ± 0.073	0.902 ± 0.072
<i>glass5</i>	0.648 ± 0.165	0.649 ± 0.165	0.819 ± 0.197	0.648 ± 0.165	0.824 ± 0.198	0.909 ± 0.121	0.909 ± 0.121
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	0.756 ± 0.042	0.758 ± 0.044	0.799 ± 0.046	0.756 ± 0.045	0.794 ± 0.045	0.766 ± 0.038	0.770 ± 0.036
<i>ecoli-0-3-4-6-vs-5</i>	0.895 ± 0.094	0.898 ± 0.095	0.916 ± 0.088	0.895 ± 0.094	0.913 ± 0.088	0.895 ± 0.082	0.893 ± 0.082
<i>ecoli-0-1-vs-5</i>	0.891 ± 0.089	0.894 ± 0.090	0.919 ± 0.073	0.891 ± 0.089	0.917 ± 0.074	0.912 ± 0.071	0.911 ± 0.072
<i>yeast4</i>	0.555 ± 0.043	0.554 ± 0.041	0.725 ± 0.073	0.561 ± 0.047	0.728 ± 0.072	0.813 ± 0.064	0.813 ± 0.064
<i>shuttle-c2-vs-c4</i>	0.585 ± 0.177	0.585 ± 0.177	0.995 ± 0.034	0.585 ± 0.177	0.995 ± 0.034	0.995 ± 0.034	0.995 ± 0.034
<i>yeast-1-2-8-9-vs-7</i>	0.508 ± 0.024	0.508 ± 0.024	0.636 ± 0.092	0.509 ± 0.026	0.659 ± 0.093	0.687 ± 0.088	0.687 ± 0.088
<i>ecoli-0-1-4-7-vs-5-6</i>	0.865 ± 0.098	0.873 ± 0.088	0.908 ± 0.069	0.875 ± 0.085	0.909 ± 0.068	0.889 ± 0.058	0.889 ± 0.057
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	0.833 ± 0.100	0.831 ± 0.099	0.856 ± 0.081	0.833 ± 0.100	0.855 ± 0.080	0.851 ± 0.069	0.846 ± 0.069
<i>yeast-2-vs-4</i>	0.820 ± 0.066	0.822 ± 0.066	0.877 ± 0.063	0.822 ± 0.066	0.878 ± 0.059	0.877 ± 0.057	0.887 ± 0.053
<i>glass-0-4-vs-5</i>	0.744 ± 0.204	0.744 ± 0.204	0.972 ± 0.064	0.759 ± 0.195	0.981 ± 0.045	0.950 ± 0.033	0.950 ± 0.033
<i>glass-0-1-6-vs-2</i>	0.522 ± 0.062	0.517 ± 0.056	0.700 ± 0.117	0.519 ± 0.057	0.692 ± 0.113	0.735 ± 0.104	0.738 ± 0.097
<i>glass-0-1-5-vs-2</i>	0.533 ± 0.066	0.525 ± 0.060	0.694 ± 0.139	0.530 ± 0.073	0.688 ± 0.138	0.690 ± 0.130	0.722 ± 0.108
<i>yeast6</i>	0.757 ± 0.091	0.755 ± 0.090	0.821 ± 0.092	0.756 ± 0.091	0.827 ± 0.093	0.882 ± 0.056	0.882 ± 0.056
<i>ecoli-0-1-3-7-vs-2-6</i>	0.850 ± 0.200	0.849 ± 0.200	0.839 ± 0.196	0.849 ± 0.199	0.840 ± 0.196	0.815 ± 0.195	0.815 ± 0.195
<i>yeast-1-vs-7</i>	0.529 ± 0.043	0.535 ± 0.047	0.673 ± 0.107	0.541 ± 0.048	0.679 ± 0.104	0.662 ± 0.099	0.678 ± 0.096
<i>glass-0-1-6-vs-5</i>	0.668 ± 0.151	0.658 ± 0.149	0.888 ± 0.148	0.664 ± 0.148	0.878 ± 0.150	0.903 ± 0.129	0.903 ± 0.129
<i>yeast-2-vs-8</i>	0.774 ± 0.114	0.774 ± 0.114	0.785 ± 0.118	0.774 ± 0.114	0.790 ± 0.113	0.805 ± 0.104	0.805 ± 0.104
<i>glass2</i>	0.547 ± 0.083	0.520 ± 0.066	0.738 ± 0.123	0.525 ± 0.072	0.737 ± 0.119	0.755 ± 0.102	0.758 ± 0.102
<i>ecoli-0-1-4-6-vs-5</i>	0.886 ± 0.091	0.892 ± 0.090	0.919 ± 0.075	0.894 ± 0.091	0.918 ± 0.075	0.905 ± 0.070	0.905 ± 0.070
<i>yeast-0-5-6-7-9-vs-4</i>	0.649 ± 0.074	0.654 ± 0.072	0.801 ± 0.059	0.661 ± 0.073	0.802 ± 0.059	0.794 ± 0.050	0.797 ± 0.047
<i>ecoli-0-1-vs-2-3-5</i>	0.833 ± 0.093	0.832 ± 0.095	0.883 ± 0.092	0.823 ± 0.101	0.880 ± 0.092	0.864 ± 0.085	0.857 ± 0.084
<i>yeast5</i>	0.821 ± 0.064	0.833 ± 0.063	0.940 ± 0.051	0.833 ± 0.066	0.938 ± 0.052	0.978 ± 0.011	0.978 ± 0.011
<i>yeast-1-4-5-8-vs-7</i>	0.501 ± 0.010	0.501 ± 0.010	0.577 ± 0.081	0.501 ± 0.010	0.587 ± 0.086	0.627 ± 0.099	0.627 ± 0.099
<i>ecoli-0-4-6-vs-5</i>	0.901 ± 0.084	0.904 ± 0.085	0.915 ± 0.083	0.906 ± 0.084	0.915 ± 0.081	0.904 ± 0.079	0.901 ± 0.079

Table 1: Results for BAC metric

	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA (6)	OTBA (7)
<i>Mean rank</i>	3.221	3.353	4.845	3.370	4.743	4.287	4.181
	—	1	<i>all</i>	1	1,2,4,6,7	1,2,4,7	1,2,4

Table 2: Results for mean ranks according to BAC metric

Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA (6)	OTBA (7)
<i>glass-0-1-4-6-vs-2</i>	0.098 ± 0.210	0.083 ± 0.189	0.679 ± 0.182	0.094 ± 0.201	0.667 ± 0.182	0.714 ± 0.148	0.735 ± 0.102
<i>ecoli-0-6-7-vs-3-5</i>	0.750 ± 0.159	0.751 ± 0.183	0.830 ± 0.117	0.749 ± 0.180	0.858 ± 0.110	0.882 ± 0.078	0.875 ± 0.077
<i>ecoli-0-3-4-7-vs-5-6</i>	0.852 ± 0.116	0.863 ± 0.100	0.893 ± 0.079	0.866 ± 0.099	0.891 ± 0.079	0.875 ± 0.072	0.869 ± 0.069
<i>glass4</i>	0.641 ± 0.310	0.655 ± 0.298	0.921 ± 0.115	0.706 ± 0.293	0.921 ± 0.115	0.900 ± 0.112	0.900 ± 0.112
<i>glass-0-6-vs-5</i>	0.521 ± 0.407	0.515 ± 0.402	0.885 ± 0.244	0.521 ± 0.407	0.899 ± 0.211	0.947 ± 0.093	0.947 ± 0.093
<i>vowel0</i>	0.969 ± 0.041	0.974 ± 0.038	0.999 ± 0.001	0.978 ± 0.039	0.999 ± 0.001	0.972 ± 0.028	0.979 ± 0.014
<i>ecoli4</i>	0.879 ± 0.124	0.879 ± 0.127	0.906 ± 0.116	0.879 ± 0.127	0.905 ± 0.115	0.942 ± 0.049	0.942 ± 0.049
<i>led7digit-0-2-4-5-6-7-8-9-vs-1</i>	0.494 ± 0.179	0.506 ± 0.182	0.897 ± 0.064	0.520 ± 0.190	0.866 ± 0.115	0.583 ± 0.163	0.602 ± 0.129
<i>shuttle-c0-vs-c4</i>	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.998 ± 0.006	0.998 ± 0.006
<i>ecoli-0-3-4-vs-5</i>	0.888 ± 0.132	0.889 ± 0.165	0.905 ± 0.122	0.899 ± 0.120	0.901 ± 0.120	0.894 ± 0.112	0.893 ± 0.112
<i>yeast-0-3-5-9-vs-7-8</i>	0.533 ± 0.123	0.512 ± 0.108	0.693 ± 0.072	0.511 ± 0.113	0.701 ± 0.070	0.695 ± 0.071	0.711 ± 0.060
<i>ecoli-0-2-6-7-vs-3-5</i>	0.747 ± 0.192	0.771 ± 0.204	0.845 ± 0.110	0.765 ± 0.203	0.870 ± 0.091	0.875 ± 0.072	0.868 ± 0.072
<i>ecoli-0-6-7-vs-5</i>	0.814 ± 0.139	0.818 ± 0.135	0.863 ± 0.117	0.812 ± 0.133	0.863 ± 0.118	0.853 ± 0.095	0.846 ± 0.094
<i>page-blocks-1-3-vs-4</i>	0.789 ± 0.138	0.817 ± 0.125	0.928 ± 0.073	0.824 ± 0.127	0.928 ± 0.076	0.938 ± 0.035	0.938 ± 0.035
<i>yeast-0-2-5-7-9-vs-3-6-8</i>	0.885 ± 0.047	0.889 ± 0.045	0.895 ± 0.044	0.887 ± 0.046	0.895 ± 0.044	0.885 ± 0.029	0.882 ± 0.029
<i>ecoli-0-2-3-4-vs-5</i>	0.878 ± 0.100	0.884 ± 0.098	0.906 ± 0.088	0.883 ± 0.102	0.903 ± 0.087	0.898 ± 0.080	0.896 ± 0.079
<i>glass5</i>	0.394 ± 0.387	0.395 ± 0.388	0.712 ± 0.375	0.394 ± 0.387	0.718 ± 0.377	0.886 ± 0.201	0.886 ± 0.201
<i>yeast-0-2-5-6-vs-3-7-8-9</i>	0.719 ± 0.058	0.721 ± 0.061	0.788 ± 0.055	0.718 ± 0.063	0.784 ± 0.053	0.764 ± 0.038	0.768 ± 0.035
<i>ecoli-0-3-4-6-vs-5</i>	0.883 ± 0.108	0.886 ± 0.109	0.908 ± 0.099	0.883 ± 0.108	0.906 ± 0.099	0.890 ± 0.089	0.888 ± 0.089
<i>ecoli-0-1-vs-5</i>	0.879 ± 0.104	0.881 ± 0.105	0.912 ± 0.082	0.879 ± 0.104	0.911 ± 0.082	0.907 ± 0.077	0.907 ± 0.078
<i>yeast4</i>	0.288 ± 0.183	0.287 ± 0.174	0.675 ± 0.110	0.312 ± 0.176	0.681 ± 0.108	0.804 ± 0.076	0.804 ± 0.076
<i>shuttle-c2-vs-c4</i>	0.182 ± 0.369	0.182 ± 0.369	0.994 ± 0.041	0.182 ± 0.369	0.994 ± 0.041	0.994 ± 0.041	0.994 ± 0.041
<i>yeast-1-2-8-9-vs-7</i>	0.041 ± 0.122	0.041 ± 0.122	0.505 ± 0.219	0.049 ± 0.132	0.560 ± 0.188	0.658 ± 0.117	0.658 ± 0.117
<i>ecoli-0-1-4-7-vs-5-6</i>	0.844 ± 0.132	0.857 ± 0.109	0.902 ± 0.077	0.860 ± 0.105	0.903 ± 0.075	0.885 ± 0.061	0.886 ± 0.060
<i>ecoli-0-1-4-7-vs-2-3-5-6</i>	0.805 ± 0.133	0.803 ± 0.128	0.843 ± 0.097	0.806 ± 0.129	0.843 ± 0.097	0.845 ± 0.075	0.840 ± 0.075
<i>yeast-2-vs-4</i>	0.797 ± 0.083	0.800 ± 0.083	0.869 ± 0.072	0.800 ± 0.083	0.871 ± 0.067	0.873 ± 0.061	0.884 ± 0.056
<i>glass-0-4-vs-5</i>	0.560 ± 0.419	0.560 ± 0.419	0.969 ± 0.072	0.603 ± 0.395	0.980 ± 0.049	0.948 ± 0.035	0.948 ± 0.035
<i>glass-0-1-6-vs-2</i>	0.118 ± 0.222	0.096 ± 0.205	0.664 ± 0.164	0.107 ± 0.214	0.653 ± 0.162	0.722 ± 0.104	0.725 ± 0.096
<i>glass-0-1-5-vs-2</i>	0.161 ± 0.246	0.129 ± 0.230	0.643 ± 0.217	0.145 ± 0.248	0.635 ± 0.215	0.669 ± 0.157	0.701 ± 0.139
<i>yeast6</i>	0.707 ± 0.136	0.704 ± 0.134	0.797 ± 0.122	0.705 ± 0.136	0.805 ± 0.123	0.878 ± 0.061	0.878 ± 0.061
<i>ecoli-0-1-3-7-vs-2-6</i>	0.741 ± 0.387	0.741 ± 0.387	0.732 ± 0.381	0.741 ± 0.387	0.733 ± 0.382	0.713 ± 0.370	0.713 ± 0.370
<i>yeast-1-vs-7</i>	0.142 ± 0.199	0.162 ± 0.209	0.592 ± 0.203	0.194 ± 0.213	0.605 ± 0.200	0.648 ± 0.108	0.666 ± 0.106
<i>glass-0-1-6-vs-5</i>	0.459 ± 0.368	0.441 ± 0.367	0.849 ± 0.247	0.455 ± 0.363	0.838 ± 0.248	0.878 ± 0.207	0.878 ± 0.207
<i>yeast-2-vs-8</i>	0.718 ± 0.181	0.718 ± 0.181	0.738 ± 0.182	0.718 ± 0.181	0.753 ± 0.151	0.787 ± 0.129	0.787 ± 0.129
<i>glass2</i>	0.201 ± 0.271	0.101 ± 0.218	0.700 ± 0.176	0.124 ± 0.236	0.701 ± 0.170	0.748 ± 0.102	0.751 ± 0.102
<i>ecoli-0-1-4-6-vs-5</i>	0.873 ± 0.105	0.879 ± 0.104	0.912 ± 0.083	0.881 ± 0.105	0.912 ± 0.083	0.900 ± 0.075	0.900 ± 0.075
<i>yeast-0-5-6-7-9-vs-4</i>	0.532 ± 0.164	0.546 ± 0.150	0.789 ± 0.070	0.560 ± 0.148	0.790 ± 0.069	0.790 ± 0.050	0.794 ± 0.046
<i>ecoli-0-1-vs-2-3-5</i>	0.807 ± 0.125	0.805 ± 0.127	0.871 ± 0.110	0.787 ± 0.162	0.869 ± 0.110	0.856 ± 0.100	0.848 ± 0.098
<i>yeast5</i>	0.798 ± 0.083	0.814 ± 0.078	0.937 ± 0.056	0.813 ± 0.083	0.935 ± 0.056	0.978 ± 0.011	0.978 ± 0.011
<i>yeast-1-4-5-8-vs-7</i>	0.008 ± 0.056	0.008 ± 0.056	0.398 ± 0.215	0.008 ± 0.056	0.431 ± 0.210	0.600 ± 0.142	0.600 ± 0.142
<i>ecoli-0-4-6-vs-5</i>	0.892 ± 0.095	0.895 ± 0.096	0.909 ± 0.091	0.897 ± 0.096	0.908 ± 0.090	0.900 ± 0.083	0.898 ± 0.083

Table 3: Results for GMEAN metric

	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA (6)	OTBA (7)
<i>Mean rank</i>	3.151	3.274	4.857	3.303	4.748	4.399	4.268
	—	1	<i>all</i>	1	1,2,4,7	1,2,4,7	1,2,4

Table 4: Results for mean ranks according to GMEAN metric