Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA.4 (6)	OTBA.4 (7)
glass4	0.750 ± 0.158	0.774 ± 0.155	0.904 ± 0.142	0.776 ± 0.160	0.905 ± 0.142	0.745 ± 0.130	0.859 ± 0.157
ecoli-0-2-3-4-vs-5	0.890 ± 0.083	0.896 ± 0.090	0.910 ± 0.078	$0.895 \stackrel{6}{\pm} 0.090$	0.908 ± 0.078	0.897 ± 0.082	0.907 ± 0.080
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.522 ± 0.062	0.499 ± 0.049	0.676 ± 0.132	$0.496 \stackrel{-}{\pm} 0.041$	0.643 ± 0.124	$0.525 \stackrel{2}{\pm} 0.083$	0.656 ± 0.140
ecoli-0-1-vs-5	0.891 ± 0.089	0.886 ± 0.090	0.918 ± 0.074	$0.889 \stackrel{-}{\pm} 0.088$	0.916 ± 0.073	$0.905 \stackrel{2}{\pm} 0.077$	0.919 ± 0.076
yeast-1-4-5-8- vs -7	0.501 ± 0.010	0.503 ± 0.018	0.547 ± 0.075	0.503 ± 0.018	0.553 ± 0.077	0.504 ± 0.019	0.540 ± 0.069
ecoli4	0.894 ± 0.100	0.908 ± 0.102	0.918 ± 0.094	0.911 ± 0.103	0.917 ± 0.094	0.911 ± 0.103	0.924 ± 0.089
led7digit - 0 - 2 - 4 - 5 - 6 - 7 - 8 - 9 - vs - 1	0.635 ± 0.077	0.642 ± 0.103	0.899 ± 0.066	0.622 ± 0.091	0.857 ± 0.121	0.583 ± 0.099	0.701 ± 0.128
glass5	0.648 ± 0.165	$0.608 \stackrel{6}{\pm} 0.159$	0.823 ± 0.196	$0.617 \stackrel{6}{\pm} 0.174$	0.823 ± 0.203	0.665 ± 0.183	0.836 ± 0.192
ecoli-0-3-4-6- vs -5	0.895 ± 0.094	0.888 ± 0.091	0.908 ± 0.089	0.885 ± 0.093	0.906 ± 0.089	0.886 ± 0.092	0.904 ± 0.092
yeast-0-5-6-7-9-vs-4	0.649 ± 0.074	0.657 ± 0.078	0.793 ± 0.065	0.661 ± 0.077	$0.797 \stackrel{-}{\pm} 0.061$	0.631 ± 0.081	0.773 ± 0.067
yeast6	0.757 ± 0.091	$0.730 \stackrel{6}{\pm} 0.095$	0.821 ± 0.087	$0.728 \stackrel{6}{\pm} 0.104$	0.818 ± 0.083	0.657 ± 0.091	0.790 ± 0.097
ecoli-0-6-7- vs -5	0.840 ± 0.108	$0.840 \stackrel{6}{\pm} 0.109$	0.876 ± 0.101	$0.842 \stackrel{6}{\pm} 0.102$	0.865 ± 0.100	0.843 ± 0.096	0.871 ± 0.103
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.668 ± 0.151	0.617 ± 0.164	0.868 ± 0.157	0.636 ± 0.170	0.853 ± 0.165	0.630 ± 0.163	0.854 ± 0.169
ecoli-0-1-3-7-vs-2-6	0.850 ± 0.200	0.849 ± 0.199	0.841 ± 0.197	$0.850 \stackrel{-}{\pm} 0.199$	0.843 ± 0.198	0.849 ± 0.200	0.845 ± 0.202
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.756 ± 0.042	0.753 ± 0.041	0.790 ± 0.041	0.755 ± 0.045	$0.788 \stackrel{-}{\pm} 0.042$	0.688 ± 0.046	$0.782 \stackrel{3}{\pm} 0.042$
ecoli-0-1-4-7-vs-5-6	0.865 ± 0.098	0.853 ± 0.107	0.894 ± 0.085	$0.844 \stackrel{6}{\pm} 0.107$	0.894 ± 0.076	0.860 ± 0.094	0.896 ± 0.088
yeast5	0.821 ± 0.064	0.811 ± 0.067	0.929 ± 0.052	0.819 ± 0.071	0.929 ± 0.048	0.766 ± 0.078	0.906 ± 0.058
shuttle- $c2$ - vs - $c4$	0.585 ± 0.177	0.585 ± 0.177	0.995 ± 0.034	$0.600 \stackrel{6}{\pm} 0.180$	0.995 ± 0.034	0.705 ± 0.238	0.995 ± 0.034
ecoli-0-1-4-7-vs-2-3-5-6	0.833 ± 0.100	0.826 ± 0.099	0.852 ± 0.077	$0.828 \stackrel{-}{\pm} 0.099$	0.857 ± 0.076	0.824 ± 0.085	0.852 ± 0.085
yeast-0-3-5-9-vs-7-8	0.641 ± 0.058	0.619 ± 0.053	0.707 ± 0.064	$0.628 \stackrel{-}{\pm} 0.062$	0.697 ± 0.070	$0.607 \stackrel{-}{\pm} 0.052$	0.646 ± 0.054
yeast-1-vs-7	0.529 ± 0.043	0.546 ± 0.058	0.631 ± 0.098	0.548 ± 0.063	0.634 ± 0.099	0.528 ± 0.043	0.616 ± 0.094
yeast-1-2-8-9- vs -7	0.508 ± 0.024	0.511 ± 0.033	0.623 ± 0.085	0.512 ± 0.034	0.634 ± 0.088	0.508 ± 0.025	0.588 ± 0.090
ecoli-0-1-4-6- vs -5	0.886 ± 0.091	0.891 ± 0.086	0.914 ± 0.073	0.888 ± 0.089	0.913 ± 0.077	0.898 ± 0.090	0.917 ± 0.074
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.533 ± 0.066	0.522 ± 0.062	0.670 ± 0.135	0.541 ± 0.076	0.658 ± 0.131	0.555 ± 0.110	0.665 ± 0.146
yeast-2-vs-4	$0.820 \stackrel{2}{\pm} 0.066$	0.825 ± 0.066	0.873 ± 0.061	0.822 ± 0.065	0.873 ± 0.062	0.816 ± 0.064	0.858 ± 0.060
glass-0-6-vs-5	0.714 ± 0.194	0.653 ± 0.182	0.950 ± 0.086	0.688 ± 0.210	0.945 ± 0.103	0.703 ± 0.200	0.939 ± 0.096
glass2	$0.547 \stackrel{2}{\pm} 0.083$	0.528 ± 0.076	0.707 ± 0.129	0.529 ± 0.069	0.712 ± 0.116	$0.571 \stackrel{-}{\pm} 0.123$	0.702 ± 0.140
yeast-2-vs-8	0.774 ± 0.114	0.774 ± 0.114	0.774 ± 0.106	0.774 ± 0.114	0.786 ± 0.105	0.774 ± 0.114	0.774 ± 0.111
vowel0	0.970 ± 0.038	0.949 ± 0.044	0.990 ± 0.026	0.969 ± 0.039	0.991 ± 0.026	0.852 ± 0.052	0.967 ± 0.043
glass-0-4-vs-5	0.744 ± 0.204	0.731 ± 0.185	0.956 ± 0.096	0.756 ± 0.214	0.959 ± 0.091	0.791 ± 0.189	0.968 ± 0.057
glass-0-1-4-6-vs-2	$0.518 \stackrel{-}{\pm} 0.062$	0.510 ± 0.056	0.700 ± 0.131	$0.515 \stackrel{-}{\pm} 0.059$	0.691 ± 0.140	0.519 ± 0.073	0.654 ± 0.135
yeast4	0.555 ± 0.043	0.574 ± 0.057	0.717 ± 0.076	0.574 ± 0.052	0.718 ± 0.080	0.535 ± 0.040	0.665 ± 0.062
ecoli-0-4-6-vs-5	0.901 ± 0.084	0.903 ± 0.083	0.916 ± 0.081	$0.900 \stackrel{6}{\pm} 0.084$	$0.912 \stackrel{all}{\pm} 0.082$	0.899 ± 0.086	0.912 ± 0.084
page-blocks-1-3-vs-4	0.818 ± 0.106	$0.815 \stackrel{6}{\pm} 0.100$	$0.912 \stackrel{5}{\pm} 0.091$	0.815 ± 0.101	$0.903 \stackrel{2}{\pm} 0.094$	0.754 ± 0.101	0.836 ± 0.102
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	$0.892 \stackrel{6}{\pm} 0.042$	$0.893 \stackrel{6}{\pm} 0.043$	0.896 ± 0.038	$0.891 \stackrel{6}{\pm} 0.043$	0.895 ± 0.039	0.871 ± 0.043	0.896 ± 0.042
ecoli-0-1-vs-2-3-5	0.833 ± 0.093	0.838 ± 0.090	0.877 ± 0.089	0.848 ± 0.098	0.873 ± 0.090	0.852 ± 0.087	0.872 ± 0.086
ecoli-0-6-7-vs-3-5	0.792 ± 0.119	0.796 ± 0.116	0.863 ± 0.099	$0.783 \stackrel{1}{\pm} 0.121$	0.866 ± 0.095	$0.811 \stackrel{1}{\pm} 0.105$	0.859 ± 0.101
ecoli-0-3-4-7-vs-5-6	0.869 ± 0.097	0.856 ± 0.089	0.893 ± 0.075	0.853 ± 0.094	0.893 ± 0.076	0.851 ± 0.092	0.904 ± 0.073
ecoli-0-2-6-7-vs-3-5	0.797 ± 0.125	0.805 ± 0.115	0.859 ± 0.091	0.801 ± 0.115	0.862 ± 0.081	0.810 ± 0.102	0.850 ± 0.095
shuttle-c0-vs-c4	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008
ecoli-0-3-4-vs-5	0.903 ± 0.105	0.897 ± 0.112	0.912 ± 0.099	0.892 ± 0.110	0.910 ± 0.099	0.904 ± 0.111	0.909 ± 0.102
	<u> </u>	_	<u> </u>	_	_	_	1,6

Table 1: Results for BAC metric

	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA.4 (6)	OTBA.4 (7)
Mean rank	3.785	3.588	4.702	3.618	4.510	3.317	4.481
	2,4,6	-	1,2,4,5,6	6	1,2,4,6	_	1,2,4,6

Table 2: Results for mean ranks according to BAC metric

Dataset	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA.4 (6)	OTBA.4 (7)
glass4	0.641 ± 0.310	0.697 ± 0.274	0.870 ± 0.242	0.692 ± 0.292	0.871 ± 0.242	0.671 ± 0.235	0.818 ± 0.251
ecoli- 0 - 2 - 3 - 4 - vs - 5	0.878 ± 0.100	0.884 ± 0.107	0.903 ± 0.086	0.884 ± 0.108	0.901 ± 0.087	0.888 ± 0.093	0.901 ± 0.089
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.118 ± 0.222	0.063 ± 0.171	0.618 ± 0.224	$0.050 \stackrel{-}{\pm} 0.151$	0.565 ± 0.239	0.138 ± 0.251	0.563 ± 0.262
ecoli- 0 - 1 - vs - 5	$0.879 \stackrel{2}{\pm} 0.104$	0.872 ± 0.105	0.911 ± 0.082	$0.876 \stackrel{-}{\pm} 0.102$	0.909 ± 0.082	0.896 ± 0.088	0.913 ± 0.084
yeast-1-4-5-8- vs -7	0.008 ± 0.056	0.024 ± 0.096	0.296 ± 0.245	0.024 ± 0.096	0.330 ± 0.243	0.024 ± 0.096	0.232 ± 0.241
ecoli4	0.879 ± 0.124	0.895 ± 0.126	0.908 ± 0.112	$0.898 \stackrel{-}{\pm} 0.127$	0.907 ± 0.112	0.898 ± 0.127	0.916 ± 0.106
led7digit-0-2-4-5-6-7-8-9-vs-1	0.494 ± 0.179	0.478 ± 0.241	0.895 ± 0.071	0.444 ± 0.221	0.832 ± 0.184	0.294 ± 0.286	0.612 ± 0.214
glass5	0.394 ± 0.387	$0.290 \stackrel{6}{\pm} 0.377$	0.716 ± 0.376	$0.301 \stackrel{6}{\pm} 0.393$	0.709 ± 0.392	0.425 ± 0.404	0.741 ± 0.365
ecoli-0-3-4-6-vs-5	0.883 ± 0.108	0.876 ± 0.105	0.900 ± 0.101	0.872 ± 0.107	0.898 ± 0.101	0.875 ± 0.104	0.896 ± 0.103
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.532 ± 0.164	0.541 ± 0.190	0.779 ± 0.078	0.552 ± 0.179	0.784 ± 0.071	0.479 ± 0.203	0.747 ± 0.091
yeast6	$0.707 \stackrel{6}{\pm} 0.136$	0.666 ± 0.145	0.799 ± 0.112	0.655 ± 0.179	0.795 ± 0.108	0.534 ± 0.181	0.754 ± 0.132
ecoli-0-6-7-vs-5	0.814 ± 0.139	0.814 ± 0.139	0.863 ± 0.119	$0.819 \stackrel{6}{\pm} 0.126$	0.852 ± 0.121	0.820 ± 0.120	0.857 ± 0.122
$glass\hbox{-}0\hbox{-}1\hbox{-}6\hbox{-}vs\hbox{-}5$	0.459 ± 0.368	0.308 ± 0.385	$0.818 \stackrel{5}{\pm} 0.272$	0.355 ± 0.394	0.793 ± 0.293	0.349 ± 0.386	$0.796 \stackrel{5}{\pm} 0.294$
ecoli-0-1-3-7-vs-2-6	0.741 ± 0.387	0.741 ± 0.387	0.734 ± 0.383	0.741 ± 0.387	0.735 ± 0.384	0.741 ± 0.387	0.738 ± 0.386
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.719 ± 0.058	0.715 ± 0.059	0.777 ± 0.049	0.717 ± 0.063	0.777 ± 0.050	0.613 ± 0.077	0.757 ± 0.054
ecoli-0-1-4-7-vs-5-6	0.844 ± 0.132	$0.830 \stackrel{6}{\pm} 0.137$	0.884 ± 0.104	$0.818 \stackrel{6}{\pm} 0.140$	0.886 ± 0.088	0.841 ± 0.116	0.884 ± 0.108
yeast5	0.798 ± 0.083	0.785 ± 0.086	0.926 ± 0.057	0.795 ± 0.089	0.926 ± 0.052	0.723 ± 0.109	0.900 ± 0.066
shuttle-c2-vs-c4	0.182 ± 0.369	0.182 ± 0.369	0.994 ± 0.041	0.225 ± 0.386	0.994 ± 0.041	0.422 ± 0.481	0.994 ± 0.041
ecoli-0-1-4-7-vs-2-3-5-6	0.805 ± 0.133	0.797 ± 0.128	0.840 ± 0.092	0.799 ± 0.130	0.845 ± 0.091	0.798 ± 0.109	0.835 ± 0.105
yeast-0-3-5-9-vs-7-8	0.533 ± 0.123	0.486 ± 0.134	0.679 ± 0.084	0.502 ± 0.145	0.668 ± 0.095	0.449 ± 0.135	$0.560 \stackrel{6}{\pm} 0.096$
yeast-1-vs-7	0.142 ± 0.199	0.204 ± 0.227	0.526 ± 0.190	$0.210 \stackrel{6}{\pm} 0.235$	0.535 ± 0.192	0.142 ± 0.199	0.464 ± 0.223
yeast-1-2-8-9-vs-7	0.041 ± 0.122	0.052 ± 0.143	$\begin{array}{c} 1,2,4,6 \\ 0.481 \pm 0.210 \end{array}$	$0.060 \stackrel{6}{\pm} 0.151$	0.507 ± 0.206	0.041 ± 0.122	0.349 ± 0.261
ecoli-0-1-4-6-vs-5	0.873 ± 0.105	0.879 ± 0.100	0.908 ± 0.081	0.876 ± 0.103	0.906 ± 0.087	0.887 ± 0.104	0.910 ± 0.083
glass-0-1-5-vs-2	0.161 ± 0.246	0.139 ± 0.235	0.606 ± 0.226	0.207 ± 0.267	0.593 ± 0.222	0.256 ± 0.299	0.583 ± 0.259
yeast-2-vs-4	0.797 ± 0.083	0.803 ± 0.083	$\begin{array}{c} 1,2,4,5,6 \\ 0.865 \pm 0.069 \end{array}$	0.800 ± 0.081	0.865 ± 0.071	0.793 ± 0.080	0.845 ± 0.070
glass-0-6-vs-5	0.521 ± 0.407	0.393 ± 0.404	$\begin{array}{c} 1,2,4,6,7 \\ 0.944 \pm 0.099 \end{array}$	0.442 ± 0.437	0.930 ± 0.162	0.493 ± 0.417	0.932 ± 0.110
glass2	$0.201 \stackrel{2}{\pm} 0.271$	0.146 ± 0.248	0.649 ± 0.215	0.153 ± 0.245	0.665 ± 0.188	0.273 ± 0.321	0.630 ± 0.239
yeast-2-vs-8	0.718 ± 0.181	0.718 ± 0.181	0.733 ± 0.148	0.718 ± 0.181	0.751 ± 0.142	0.718 ± 0.181	0.727 ± 0.153
vowel0	0.969 ± 0.041	0.946 ± 0.048	0.989 ± 0.028	0.967 ± 0.041	0.990 ± 0.028	0.837 ± 0.063	0.966 ± 0.046
glass-0-4-vs-5	0.560 ± 0.419	0.564 ± 0.387	0.942 ± 0.157	0.576 ± 0.430	0.947 ± 0.153	0.677 ± 0.363	0.966 ± 0.063
glass-0-1-4-6-vs-2	0.098 ± 0.210	0.085 ± 0.195	0.642 ± 0.229	0.106 ± 0.212	0.615 ± 0.261	0.125 ± 0.236	0.542 ± 0.281
yeast4	0.288 ± 0.183	0.347 ± 0.183	0.662 ± 0.116	0.348 ± 0.184	0.664 ± 0.121	0.195 ± 0.188	0.575 ± 0.111
ecoli-0-4- 6 - vs - 5	0.892 ± 0.095	0.894 ± 0.094	0.909 ± 0.090	0.891 ± 0.095	$0.905 \stackrel{all}{\pm} 0.090$	0.890 ± 0.096	0.906 ± 0.092
page-blocks-1-3-vs-4	$0.789 \stackrel{6}{\pm} 0.138$	0.786 ± 0.128	0.905 ± 0.105	0.786 ± 0.130	$0.895 \stackrel{2}{\pm} 0.110$	0.700 ± 0.144	0.813 ± 0.127
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	$0.885 \stackrel{6}{\pm} 0.047$	$0.887 \stackrel{6}{\pm} 0.048$	0.893 ± 0.041	$0.885 \stackrel{6}{\pm} 0.049$	0.892 ± 0.042	0.862 ± 0.049	0.891 ± 0.047
ecoli-0-1-vs-2-3-5	$0.807 \stackrel{6}{\pm} 0.125$	0.814 ± 0.117	0.865 ± 0.106	$0.825 \stackrel{6}{\pm} 0.125$	0.861 ± 0.109	0.833 ± 0.108	0.859 ± 0.104
ecoli-0-6-7-vs-3-5	0.750 ± 0.159	0.751 ± 0.180	0.849 ± 0.118	$0.725 \stackrel{1}{\pm} 0.208$	0.853 ± 0.113	0.780 ± 0.135	0.843 ± 0.120
ecoli-0-3-4-7-vs-5-6	0.852 ± 0.116	0.839 ± 0.107	0.885 ± 0.085	0.833 ± 0.113	0.886 ± 0.086	0.832 ± 0.111	0.897 ± 0.081
ecoli-0-2-6-7-vs-3-5	0.747 ± 0.192	0.762 ± 0.180	0.844 ± 0.111	$0.755 \stackrel{-}{\pm} 0.181$	0.850 ± 0.096	0.778 ± 0.136	0.832 ± 0.119
shuttle-c0-vs-c4	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008	$^{-}_{0.995\pm0.009}$	0.996 ± 0.008	0.995 ± 0.008	0.996 ± 0.008
ecoli-0-3-4-vs-5	0.888 ± 0.132	0.880 ± 0.142	0.901 ± 0.121	$0.875 \stackrel{-}{\pm} 0.137$	$0.899 \stackrel{-}{\pm} 0.120$	0.890 ± 0.137	0.899 ± 0.122
	_	_	_	_	_	_	1,6

Table 3: Results for GMEAN metric $\,$

	kNN (1)	SB (2)	OSB (3)	KNORAU (4)	OKNORAU (5)	TBA.4 (6)	OTBA.4 (7)
Mean rank	3.690	3.538	4.775	3.565	4.593	3.290	4.549
	2,6	-	1,2,4,5,6	-	1,2,4,6	_	1,2,4,6

Table 4: Results for mean ranks according to GMEAN metric