Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.906 ± 0.142	0.906 ± 0.143	0.825 ± 0.166	0.824 ± 0.165	0.842 ± 0.165	0.842 ± 0.164
ecoli-0-2-3-4-vs-5	$\begin{array}{c} 3,4,5,6 \\ 0.911 \pm 0.078 \end{array}$	0.908 ± 0.079	0.898 ± 0.080	0.902 ± 0.077	0.909 ± 0.079	0.906 ± 0.078
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 2$	$0.668 \stackrel{2}{\pm} 0.127$	0.654 ± 0.117	0.740 ± 0.119	0.744 ± 0.118	0.743 ± 0.100	0.761 ± 0.098
ecoli-0-1-vs-5	$0.913 \stackrel{2}{\pm} 0.076$	0.917 ± 0.073	0.901 ± 0.079	0.900 ± 0.079	0.904 ± 0.078	$0.909 \stackrel{1,2}{\pm} 0.075$
yeast-1-4-5-8- vs -7	0.548 ± 0.074	0.557 ± 0.075	0.584 ± 0.087	0.597 ± 0.099	0.598 ± 0.082	0.617 ± 0.090
ecoli4	0.920 ± 0.095	$0.919 \stackrel{-}{\pm} 0.094$	0.927 ± 0.090	0.925 ± 0.089	0.934 ± 0.086	0.932 ± 0.085
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.891 ± 0.073	0.853 ± 0.120	0.595 ± 0.091	0.852 ± 0.082	0.651 ± 0.087	0.849 ± 0.132
glass5	0.814 ± 0.201	0.819 ± 0.202	0.829 ± 0.190	0.829 ± 0.181	$0.871 \stackrel{3}{\pm} 0.172$	0.873 ± 0.172
ecoli- 0 - 3 - 4 - 6 - vs - 5	0.909 ± 0.087	0.907 ± 0.088	0.896 ± 0.091	0.893 ± 0.090	0.900 ± 0.093	0.902 ± 0.094
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.788 ± 0.067	0.789 ± 0.058	0.771 ± 0.057	0.787 ± 0.057	0.797 ± 0.055	0.803 ± 0.056 $3,4$
yeast6	0.812 ± 0.093	0.814 ± 0.091	0.828 ± 0.089	0.838 ± 0.088	0.839 ± 0.087	0.852 ± 0.074
ecoli-0-6-7-vs-5	0.867 ± 0.100	0.866 ± 0.103	0.865 ± 0.098	0.866 ± 0.099	0.871 ± 0.102	0.870 ± 0.102
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.853 ± 0.165	$0.843 \stackrel{4}{\pm} 0.158$	0.804 ± 0.167	$0.809 \stackrel{2}{\pm} 0.175$	$0.894 \stackrel{2}{\pm} 0.146$	0.893 ± 0.146
ecoli - 0 - 1 - 3 - 7 - vs - 2 - 6	0.842 ± 0.197	0.840 ± 0.197	0.846 ± 0.205 $1.2.5.6$	0.844 ± 0.204 $1,2,5,6$	0.840 ± 0.206	0.837 ± 0.202
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.791 ± 0.039	0.788 ± 0.043	0.763 ± 0.050	0.763 ± 0.049	0.786 ± 0.048	0.789 ± 0.045
ecoli - 0 - 1 - 4 - 7 - vs - 5 - 6	0.894 ± 0.084	0.892 ± 0.084	0.894 ± 0.077	0.891 ± 0.078	0.903 ± 0.074	0.899 ± 0.078
yeast5	0.923 ± 0.050	0.927 ± 0.048	0.911 ± 0.059	0.914 ± 0.057	0.928 ± 0.059	0.928 ± 0.056
shuttle- $c2$ - vs - $c4$	0.995 ± 0.034	0.995 ± 0.034	0.900 ± 0.187	0.900 ± 0.187	0.950 ± 0.141	0.950 ± 0.141
ecoli-0-1-4-7- vs -2-3-5-6	0.852 ± 0.078	0.858 ± 0.075	0.861 ± 0.082	0.859 ± 0.082	0.858 ± 0.082	0.856 ± 0.079
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.707 ± 0.063	0.704 ± 0.069	0.644 ± 0.061	0.651 ± 0.061	0.661 ± 0.065	0.683 ± 0.071
yeast-1- vs -7	$\begin{array}{c} 3,4,5,6 \\ 0.627 \pm 0.101 \end{array}$	0.633 ± 0.099	0.627 ± 0.101	0.646 ± 0.096	0.636 ± 0.098	0.665 ± 0.106
$yeast \hbox{-} 1\hbox{-} 2\hbox{-} 8\hbox{-} 9\hbox{-} vs\hbox{-} 7$	0.619 ± 0.088	0.635 ± 0.088	0.589 ± 0.074	0.635 ± 0.087	0.647 ± 0.094	0.673 ± 0.085
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.908 ± 0.076	$0.911 \stackrel{3}{\pm} 0.077$	0.902 ± 0.085	0.902 ± 0.085	0.905 ± 0.077	0.908 ± 0.078
$glass\hbox{-}0\hbox{-}1\hbox{-}5\hbox{-}vs\hbox{-}2$	0.667 ± 0.134	0.660 ± 0.129	0.734 ± 0.122	0.731 ± 0.127	0.739 ± 0.108	0.734 ± 0.114
yeast-2- vs -4	0.873 ± 0.060	0.873 ± 0.061	0.836 ± 0.061	0.838 ± 0.063	0.850 ± 0.063	0.859 ± 0.068
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	$3,4,5,6 \\ 0.945 \pm 0.103$	$3,4,5,6$ 0.945 ± 0.103	0.806 ± 0.186	0.796 ± 0.195	0.900 ± 0.132	0.905 ± 0.130
glass2	0.699 ± 0.141	0.692 ± 0.127	0.759 ± 0.114	0.759 ± 0.116	0.763 ± 0.120	0.755 ± 0.120
yeast-2-vs-8	$0.776 \stackrel{2}{\pm} 0.107$	0.787 ± 0.105	0.773 ± 0.115	0.773 ± 0.115	0.772 ± 0.116	0.774 ± 0.112
vowel0	$\begin{array}{c} 3,4,5,6 \\ 0.991 \pm 0.026 \end{array}$	0.991 ± 0.026	0.894 ± 0.061	0.911 ± 0.057	0.950 ± 0.059	0.952 ± 0.058
$glass\hbox{-} 0\hbox{-} 4\hbox{-} vs\hbox{-} 5$	0.959 ± 0.096	0.962 ± 0.091	0.857 ± 0.148	0.852 ± 0.156	0.960 ± 0.077	0.955 ± 0.082
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 4\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.675 ± 0.126	0.689 ± 0.142	0.746 ± 0.126	0.745 ± 0.118	0.751 ± 0.113	0.752 ± 0.110
yeast4	0.712 ± 0.074	0.718 ± 0.083	0.719 ± 0.065	0.739 ± 0.065	0.739 ± 0.064	0.770 ± 0.069
ecoli-0-4- 6 - vs - 5	0.918 ± 0.079	0.915 ± 0.081	0.903 ± 0.079	0.906 ± 0.080	0.910 ± 0.083	0.910 ± 0.083
$page-blocks-1\hbox{-} 3\hbox{-} vs\hbox{-} 4$	0.915 ± 0.092	0.921 ± 0.088	0.797 ± 0.113	0.815 ± 0.116	$0.841 \stackrel{-}{\pm} 0.092$	0.848 ± 0.094
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.894 ± 0.040	0.893 ± 0.039	0.896 ± 0.040	0.895 ± 0.041	$0.898 \stackrel{3}{\pm} 0.041$	0.898 ± 0.040
ecoli- 0 - 1 - vs - 2 - 3 - 5	$0.876 \stackrel{2}{\pm} 0.092$	0.872 ± 0.089	0.848 ± 0.090	0.849 ± 0.088	$0.857 \stackrel{6}{\pm} 0.089$	0.857 ± 0.090
ecoli-0-6-7-vs-3-5	0.863 ± 0.100	0.863 ± 0.094	0.828 ± 0.106	0.831 ± 0.103	0.832 ± 0.107	0.833 ± 0.103
ecoli-0-3-4-7-vs-5-6	0.895 ± 0.076	0.895 ± 0.078	0.879 ± 0.087	0.891 ± 0.083	0.897 ± 0.076	0.901 ± 0.077
ecoli-0-2-6-7-vs-3-5	0.852 ± 0.094	0.858 ± 0.091	0.835 ± 0.105	0.837 ± 0.097	$0.830 \stackrel{1,2}{\pm} 0.101$	0.840 ± 0.097
shuttle-c0-vs-c4	0.996 ± 0.008	0.996 ± 0.008	$0.996 \stackrel{5}{\pm} 0.008$	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008
ecoli-0-3-4- vs -5	0.911 ± 0.102	0.909 ± 0.098	0.909 ± 0.104	0.912 ± 0.105	0.913 ± 0.106	0.916 ± 0.104
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Table 1: Results for BAC metric

OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)								
Mean rank	3.817	3.768	2.220	2.634	4.061	4.500		
	3,4	3,4	_	_	3,4	3,4,5		

Table 2: Results for mean ranks according to BAC metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.684 ± 0.244	0.680 ± 0.243	0.590 ± 0.260	0.586 ± 0.257	0.587 ± 0.248	0.581 ± 0.253
ecoli-0-2-3-4-vs-5	0.816 ± 0.123	0.797 ± 0.129	$0.821 \stackrel{-}{\pm} 0.134$	0.823 ± 0.128	0.828 ± 0.132	$0.819 \stackrel{-}{\pm} 0.128$
$glass\hbox{-}0\hbox{-}1\hbox{-}6\hbox{-}vs\hbox{-}2$	0.321 ± 0.159	0.298 ± 0.146	0.343 ± 0.112	0.341 ± 0.107	$0.330 \stackrel{2}{\pm} 0.092$	$0.345 \stackrel{-}{\pm} 0.090$
ecoli- 0 - 1 - vs - 5	0.842 ± 0.108	0.834 ± 0.102	$0.866 \stackrel{5}{\pm} 0.103$	0.863 ± 0.104	0.858 ± 0.107	0.862 ± 0.105
yeast-1-4-5-8-vs-7	0.117 ± 0.106	0.127 ± 0.100	0.149 ± 0.089	0.147 ± 0.088	0.144 ± 0.065	$0.154 \stackrel{2}{\pm} 0.065$
ecoli4	0.794 ± 0.143	0.781 ± 0.138	0.874 ± 0.128	0.850 ± 0.125	0.843 ± 0.128	0.827 ± 0.130
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.690 ± 0.099	0.633 ± 0.170	0.278 ± 0.231	0.702 ± 0.105	0.396 ± 0.186	$0.649 \stackrel{2}{\pm} 0.184$
glass5	0.522 ± 0.319	0.524 ± 0.321	0.528 ± 0.303	0.522 ± 0.271	0.511 ± 0.233	0.522 ± 0.245
ecoli-0-3-4-6-vs-5	0.822 ± 0.125	0.806 ± 0.131	0.790 ± 0.155	0.785 ± 0.155	0.791 ± 0.161	0.792 ± 0.159
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.549 ± 0.092	0.537 ± 0.081	0.560 ± 0.088	0.539 ± 0.090	0.559 ± 0.078	$0.521 \stackrel{-}{\pm} 0.078$
yeast6	0.485 ± 0.127	0.474 ± 0.130	0.549 ± 0.127	0.500 ± 0.115	0.523 ± 0.120	$0.460 \stackrel{-}{\pm} 0.098$
ecoli-0-6-7-vs-5	0.726 ± 0.156	0.694 ± 0.159	0.784 ± 0.159	0.779 ± 0.164	0.766 ± 0.163	$0.761 \stackrel{-}{\pm} 0.159$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.564 ± 0.267	0.558 ± 0.251	0.516 ± 0.272	0.518 ± 0.288	0.596 ± 0.243	0.589 ± 0.237
ecoli-0-1-3-7-vs-2-6	0.555 ± 0.335	0.537 ± 0.337	0.700 ± 0.378	0.662 ± 0.374	0.609 ± 0.364	0.535 ± 0.329
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.565 ± 0.055	$0.547 \stackrel{-}{\pm} 0.059$	0.627 ± 0.090	0.624 ± 0.084	0.630 ± 0.082	$0.624 \stackrel{-}{\pm} 0.076$
ecoli-0-1-4-7-vs-5-6	$0.770 \stackrel{2}{\pm} 0.133$	0.757 ± 0.133	0.837 ± 0.104	0.805 ± 0.113	0.836 ± 0.111	0.812 ± 0.118
yeast5	$0.705 \stackrel{2}{\pm} 0.081$	0.700 ± 0.080	0.723 ± 0.087	0.702 ± 0.088	0.698 ± 0.090	0.686 ± 0.090
shuttle-c2-vs-c4	0.993 ± 0.046	0.993 ± 0.046	0.813 ± 0.366	0.813 ± 0.366	0.907 ± 0.275	$0.907 \stackrel{-}{\pm} 0.275$
$ecoli\mbox{-}0\mbox{-}1\mbox{-}4\mbox{-}7\mbox{-}vs\mbox{-}2\mbox{-}3\mbox{-}5\mbox{-}6$	0.698 ± 0.114	0.694 ± 0.110	0.806 ± 0.115	0.791 ± 0.117	0.772 ± 0.113	$0.744 \stackrel{-}{\pm} 0.114$
$yeast\hbox{-} 0\hbox{-} 3\hbox{-} 5\hbox{-} 9\hbox{-} vs\hbox{-} 7\hbox{-} 8$	0.418 ± 0.091	0.403 ± 0.094	0.389 ± 0.132	0.392 ± 0.123	0.398 ± 0.120	$0.408 \stackrel{1,2}{\pm} 0.113$
yeast-1- vs -7	0.273 ± 0.153	0.270 ± 0.139	0.259 ± 0.144	0.245 ± 0.100	0.246 ± 0.111	0.250 ± 0.096
$yeast\hbox{-} 1\hbox{-} 2\hbox{-} 8\hbox{-} 9\hbox{-} vs\hbox{-} 7$	0.225 ± 0.140	0.237 ± 0.131	$0.144 \stackrel{5}{\pm} 0.095$	0.165 ± 0.077	0.183 ± 0.098	$0.191 \stackrel{-}{\pm} 0.069$
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.824 ± 0.114	0.807 ± 0.113	0.854 ± 0.121	0.854 ± 0.121	0.838 ± 0.100	0.843 ± 0.104
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.325 ± 0.167	0.316 ± 0.154	0.348 ± 0.119	$0.340 \stackrel{2}{\pm} 0.117$	0.341 ± 0.094	$0.338 \stackrel{2}{\pm} 0.101$
yeast-2- vs -4	$0.768 \stackrel{2}{\pm} 0.085$	0.756 ± 0.092	0.763 ± 0.090	0.760 ± 0.094	0.768 ± 0.095	$0.760 \stackrel{-}{\pm} 0.098$
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.823 ± 0.213	0.823 ± 0.213	0.668 ± 0.334	0.638 ± 0.355	0.771 ± 0.232	0.777 ± 0.229
glass2	0.361 ± 0.183	0.341 ± 0.165	0.355 ± 0.116	0.341 ± 0.112	0.347 ± 0.118	0.335 ± 0.112
yeast-2-vs-8	0.514 ± 0.151	0.503 ± 0.140	0.661 ± 0.209	0.657 ± 0.210	$0.636 \stackrel{6}{\pm} 0.201$	0.607 ± 0.190
vowel0	$0.989 \stackrel{2}{\pm} 0.030$	0.989 ± 0.030	0.858 ± 0.084	0.883 ± 0.077	0.918 ± 0.078	$0.925 \stackrel{1,2}{\pm} 0.076$
$glass\hbox{-}0\hbox{-}4\hbox{-}vs\hbox{-}5$	$\begin{array}{c} 3,4,5,6 \\ 0.881 \pm 0.191 \end{array}$	0.869 ± 0.189	0.733 ± 0.254	0.720 ± 0.274	0.859 ± 0.194	0.852 ± 0.195
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 4\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.325 ± 0.164	0.337 ± 0.173	0.339 ± 0.124	0.338 ± 0.116	0.334 ± 0.102	0.337 ± 0.105
yeast4	0.386 ± 0.114	0.372 ± 0.116	$0.425 \stackrel{5,6}{\pm} 0.113$	0.382 ± 0.092	0.402 ± 0.099	$0.363 \stackrel{-}{\pm} 0.076$
ecoli-0-4-6- vs -5	0.861 ± 0.121	0.838 ± 0.133	0.815 ± 0.132	0.817 ± 0.132	0.817 ± 0.141	0.817 ± 0.141
$page-blocks-1\hbox{-} 3\hbox{-} vs\hbox{-} 4$	0.725 ± 0.132	0.733 ± 0.123	0.640 ± 0.176	0.650 ± 0.182	0.655 ± 0.132	0.673 ± 0.149
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	$\begin{array}{c} 3,4,5,6 \\ 0.745 \pm 0.054 \end{array}$	0.732 ± 0.055	0.820 ± 0.057	0.816 ± 0.058	0.799 ± 0.065	$0.789 \stackrel{-}{\pm} 0.063$
ecoli-0-1- vs -2-3-5	$0.740 \stackrel{2}{\pm} 0.126$	$0.728 \stackrel{-}{\pm} 0.125$	0.799 ± 0.138	0.797 ± 0.135	0.791 ± 0.130	$0.785 \overset{1,2}{\pm} 0.135$
ecoli-0-6-7-vs-3-5	0.745 ± 0.163	0.734 ± 0.152	0.728 ± 0.182	0.723 ± 0.177	0.722 ± 0.184	$0.713 \overset{1,2}{\pm} 0.182$
ecoli-0-3-4-7-vs-5-6	0.770 ± 0.110	0.759 ± 0.113	0.805 ± 0.126	0.807 ± 0.125	0.817 ± 0.109	$0.813 \stackrel{-}{\pm} 0.112$
ecoli-0-2-6-7-vs-3-5	0.728 ± 0.145	0.731 ± 0.130	0.738 ± 0.177	0.728 ± 0.159	$0.707 \stackrel{1,2}{\pm} 0.163$	$0.704 \overset{1,2}{\pm} 0.164$
shuttle-c0-vs-c4	0.996 ± 0.008	0.996 ± 0.008	$0.995 \stackrel{5,6}{\pm} 0.008$	$0.995 \stackrel{6}{\pm} 0.008$	0.996 ± 0.008	$0.996 \stackrel{-}{\pm} 0.008$
ecoli- 0 - 3 - 4 - vs - 5	0.819 ± 0.161	0.809 ± 0.152	0.837 ± 0.167	0.838 ± 0.167	0.833 ± 0.173	$0.840 \stackrel{-}{\pm} 0.173$
	_	_	_	2	_	2

Table 3: Results for F1 metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
$Mean\ rank$	3.683	2.902	4.159	3.427	3.646	3.183
	2	_	2,4,6	_	_	_

Table 4: Results for mean ranks according to F1 metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.606 ± 0.269	0.594 ± 0.260	0.557 ± 0.275	0.551 ± 0.271	0.538 ± 0.268	0.529 ± 0.276
ecoli-0-2-3-4-vs-5	0.821 ± 0.176	0.788 ± 0.187	0.859 ± 0.181	0.856 ± 0.180	0.849 ± 0.181	0.837 ± 0.180
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.250 ± 0.141	0.227 ± 0.128	$0.230 \stackrel{2}{\pm} 0.081$	$0.226 \stackrel{2}{\pm} 0.077$	$0.214 \stackrel{2}{\pm} 0.067$	0.223 ± 0.065
ecoli-0-1-vs-5	0.871 ± 0.137	0.844 ± 0.137	$0.963 \overset{5,6}{\pm} 0.085$	$0.958 \stackrel{5}{\pm} 0.090$	0.931 ± 0.114	0.930 ± 0.117
yeast-1-4-5-8-vs-7	0.097 ± 0.088	0.098 ± 0.077	0.104 ± 0.065	0.094 ± 0.059	0.092 ± 0.041	0.095 ± 0.040
ecoli4	0.785 ± 0.176	0.762 ± 0.176	0.920 ± 0.128	0.877 ± 0.146	0.843 ± 0.158	0.819 ± 0.173
$led 7 digit \hbox{-} 0\hbox{-} 2\hbox{-} 4\hbox{-} 5\hbox{-} 6\hbox{-} 7\hbox{-} 8\hbox{-} 9\hbox{-} vs\hbox{-} 1$	0.598 ± 0.101	0.565 ± 0.134	0.563 ± 0.421	0.713 ± 0.135	0.544 ± 0.256	$0.623 \stackrel{2}{\pm} 0.147$
glass5	0.468 ± 0.318	0.470 ± 0.323	0.462 ± 0.311	0.463 ± 0.293	0.398 ± 0.211	0.413 ± 0.230
ecoli-0-3-4-6- vs -5	0.840 ± 0.159	0.808 ± 0.168	$0.781 \stackrel{5}{\pm} 0.179$	$0.776 \stackrel{5}{\pm} 0.180$	0.774 ± 0.185	0.771 ± 0.182
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.484 ± 0.094	0.460 ± 0.089	0.545 ± 0.120	0.471 ± 0.111	0.493 ± 0.101	0.418 ± 0.089
yeast6	0.399 ± 0.116	0.382 ± 0.116	0.475 ± 0.121	0.396 ± 0.098	0.427 ± 0.113	0.341 ± 0.092
ecoli-0-6-7- vs -5	0.732 ± 0.194	0.667 ± 0.187	0.859 ± 0.181	0.846 ± 0.194	0.806 ± 0.200	0.802 ± 0.202
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.492 ± 0.278	0.494 ± 0.268	0.466 ± 0.280	0.459 ± 0.286	0.490 ± 0.241	0.479 ± 0.232
ecoli-0-1-3-7- vs -2-6	0.540 ± 0.380	0.516 ± 0.380	0.750 ± 0.403	0.701 ± 0.411	0.604 ± 0.397	0.506 ± 0.370
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.504 ± 0.059	0.472 ± 0.058	0.748 ± 0.104	0.739 ± 0.099	0.665 ± 0.101	0.643 ± 0.098
ecoli - 0 - 1 - 4 - 7 - vs - 5 - 6	0.772 ± 0.169	0.742 ± 0.166	0.911 ± 0.120	0.840 ± 0.141	0.880 ± 0.136	0.837 ± 0.140
yeast5	$0.603 \stackrel{2}{\pm} 0.098$	0.592 ± 0.093	0.646 ± 0.103	0.608 ± 0.100	0.588 ± 0.096	0.570 ± 0.098
shuttle- $c2$ - vs - $c4$	$1.000 \stackrel{6}{\pm} 0.000$	1.000 ± 0.000	0.840 ± 0.366	0.840 ± 0.366	0.920 ± 0.271	0.920 ± 0.271
$ecoli\mbox{-}0\mbox{-}1\mbox{-}4\mbox{-}7\mbox{-}vs\mbox{-}2\mbox{-}3\mbox{-}5\mbox{-}6$	0.693 ± 0.158	0.675 ± 0.163	0.943 ± 0.097	0.905 ± 0.112	0.855 ± 0.121	0.797 ± 0.161
$yeast\hbox{-} 0\hbox{-} 3\hbox{-} 5\hbox{-} 9\hbox{-} vs\hbox{-} 7\hbox{-} 8$	$0.356 \stackrel{?}{\pm} 0.093$	0.333 ± 0.087	0.537 ± 0.197	$0.501 \pm 0.184 \\ 1,2,5,6$	0.455 ± 0.152 $1,2,6$	0.399 ± 0.124
yeast-1- vs -7	0.252 ± 0.144 $2,4,5,6$	0.227 ± 0.118 $4,5,6$	0.221 ± 0.134 $4,5,6$	0.175 ± 0.083	0.190 ± 0.107	0.169 ± 0.068
yeast-1-2-8-9-vs-7	0.196 ± 0.129 3,4,5,6	0.196 ± 0.112	0.106 ± 0.080	0.107 ± 0.055	0.123 ± 0.070 3.4	0.122 ± 0.045
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.844 ± 0.152	0.802 ± 0.151	0.930 ± 0.122	0.930 ± 0.122	0.892 ± 0.133	0.896 ± 0.134
$glass\hbox{-}0\hbox{-}1\hbox{-}5\hbox{-}vs\hbox{-}2$	0.258 ± 0.136 2,4,5,6	0.245 ± 0.123	0.232 ± 0.084 $5,6$	0.225 ± 0.083	$0.221 \stackrel{?}{\pm} 0.065$	0.220 ± 0.070
yeast-2- vs -4	0.781 ± 0.108	0.754 ± 0.116	0.884 ± 0.093 $1,2,5,6$	0.870 ± 0.118 $1,2,5,6$	0.846 ± 0.107 $1,2,6$	0.807 ± 0.133
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.795 ± 0.262	0.795 ± 0.262	0.770 ± 0.372	0.730 ± 0.398	0.782 ± 0.276	0.785 ± 0.273
glass2	0.295 ± 0.159	0.266 ± 0.143 $3,4,5,6$	0.241 ± 0.093 $4,6$	0.225 ± 0.084	0.229 ± 0.088 ₆	0.220 ± 0.083
yeast-2-vs-8	0.522 ± 0.216	0.478 ± 0.201	0.908 ± 0.200 $1,2,5,6$	0.891 ± 0.215 $1,2,6$	0.843 ± 0.225 $1,2,6$	0.733 ± 0.242 $1,2$
vowel0	0.996 ± 0.014 3,4,5,6	0.996 ± 0.014 $3,4,5,6$	0.949 ± 0.057	0.957 ± 0.049	0.940 ± 0.062	0.950 ± 0.060
glass-0-4-vs-5	0.860 ± 0.226	0.830 ± 0.232	0.815 ± 0.299	0.795 ± 0.318	0.821 ± 0.254	0.821 ± 0.254
$glass\hbox{-}0\hbox{-}1\hbox{-}4\hbox{-}6\hbox{-}vs\hbox{-}2$	0.253 ± 0.131 $5,6$	0.269 ± 0.169 $3.4.5.6$	0.225 ± 0.086 $5,6$	0.223 ± 0.083	0.216 ± 0.069	0.219 ± 0.074
yeast4	0.345 ± 0.115 $2.4.6$	0.313 ± 0.099	0.405 ± 0.126	0.308 ± 0.087	0.339 ± 0.101 4.6	0.265 ± 0.061
ecoli-0-4-6-vs-5	0.899 ± 0.150	0.852 ± 0.170	0.822 ± 0.173	0.823 ± 0.173	0.811 ± 0.179	0.811 ± 0.179
page-blocks-1-3-vs-4	0.639 ± 0.133	0.650 ± 0.131	0.732 ± 0.188 $1.2.5.6$	0.717 ± 0.216 5.6	0.635 ± 0.148	0.660 ± 0.178
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.681 ± 0.067	0.656 ± 0.068	0.838 ± 0.070 $1.2.5.6$	0.830 ± 0.072 $1.2.5.6$	0.784 ± 0.085 $1.2.6$	0.765 ± 0.085 1.2
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.743 ± 0.162	0.719 ± 0.147	0.973 ± 0.083 $1,2,5,6$ $1,2,5,6$	$\begin{array}{c} 1,2,5,6\\ 0.959 \pm 0.096\\ 1,2,5,6 \end{array}$	0.912 ± 0.121 $1,2$	0.897 ± 0.137 1.2
ecoli-0-6-7- vs -3-5	0.772 ± 0.203	0.746 ± 0.192	0.829 ± 0.196	0.799 ± 0.199 6	0.803 ± 0.205	0.763 ± 0.216
ecoli-0-3-4-7-vs-5-6	0.752 ± 0.153	0.727 ± 0.147	0.868 ± 0.123 $1,2,4,6$	0.834 ± 0.129	0.838 ± 0.115	0.819 ± 0.118 1.2
ecoli-0-2-6-7-vs-3-5	0.774 ± 0.199	0.771 ± 0.198	0.830 ± 0.186 $5,6$	0.795 ± 0.181	0.766 ± 0.191	0.726 ± 0.198
shuttle-c0-vs-c4	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000
ecoli- 0 - 3 - 4 - vs - 5	0.840 ± 0.173	0.822 ± 0.170	0.869 ± 0.170	0.865 ± 0.170	0.850 ± 0.181	0.857 ± 0.180

Table 5: Results for Precision metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)								
Mean rank	3.780	3.049	4.744	3.768	3.146	2.512			
	2,6	-	all	6	6	_			

Table 6: Results for mean ranks according to Precision metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.857 ± 0.278	0.857 ± 0.278	0.690 ± 0.323	0.690 ± 0.323	0.733 ± 0.323	0.737 ± 0.319
ecoli-0-2-3-4-vs-5	0.850 ± 0.158	0.850 ± 0.158	0.815 ± 0.156	0.825 ± 0.152	0.840 ± 0.156	0.835 ± 0.155
glass-0-1-6-vs-2	0.487 ± 0.241	0.472 ± 0.228	0.715 ± 0.253	0.742 ± 0.243	0.765 ± 0.208	0.797 ± 0.206
ecoli- 0 - 1 - vs - 5	0.840 ± 0.156	0.850 ± 0.150	$0.805 \overset{1,2}{\pm} 0.160$	0.805 ± 0.160	$0.815 \stackrel{1,2}{\pm} 0.156$	0.825 ± 0.152
yeast-1-4-5-8-vs-7	0.157 ± 0.154	0.187 ± 0.155	0.280 ± 0.177	0.350 ± 0.197	$0.350 \stackrel{-}{\pm} 0.174$	0.417 ± 0.177
ecoli4	0.860 ± 0.194	0.860 ± 0.194	0.860 ± 0.181	0.860 ± 0.181	0.880 ± 0.174	$0.880 \stackrel{all}{\pm} 0.174$
$led 7 digit \hbox{-} 0\hbox{-} 2\hbox{-} 4\hbox{-} 5\hbox{-} 6\hbox{-} 7\hbox{-} 8\hbox{-} 9\hbox{-} vs\hbox{-} 1$	0.836 ± 0.147	0.758 ± 0.247	$0.199 \stackrel{-}{\pm} 0.182$	0.736 ± 0.175	$0.328 \stackrel{-}{\pm} 0.172$	0.740 ± 0.274
glass5	0.660 ± 0.405	0.670 ± 0.407	0.700 ± 0.374	0.700 ± 0.360	$0.800 \stackrel{3}{\pm} 0.346$	0.800 ± 0.346
ecoli- 0 - 3 - 4 - 6 - vs - 5	0.840 ± 0.178	0.840 ± 0.178	0.820 ± 0.173	0.815 ± 0.171	0.830 ± 0.176	0.835 ± 0.177
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.654 ± 0.139	0.665 ± 0.123	0.601 ± 0.120	0.662 ± 0.120	0.673 ± 0.121	0.722 ± 0.119
yeast6	$0.649 \stackrel{3}{\pm} 0.187$	0.654 ± 0.183	0.674 ± 0.178	0.703 ± 0.178	$0.703 \stackrel{3}{\pm} 0.175$	0.740 ± 0.153
ecoli-0-6-7- vs -5	0.770 ± 0.205	0.780 ± 0.210	0.745 ± 0.190	0.750 ± 0.193	0.765 ± 0.202	0.765 ± 0.202
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.750 ± 0.335	0.730 ± 0.319	0.650 ± 0.335	0.660 ± 0.352	0.840 ± 0.290	0.840 ± 0.290
ecoli-0-1-3-7-vs-2-6	0.700 ± 0.400	0.700 ± 0.400	0.700 ± 0.400	0.700 ± 0.400	0.700 ± 0.400	0.700 ± 0.400
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.653 ± 0.081 3,4,5,6	0.658 ± 0.088 3,4,5,6	0.547 ± 0.100	0.548 ± 0.099	0.606 ± 0.095 $3,4$	0.617 ± 0.092 $3,4$
ecoli-0-1-4-7-vs-5-6	0.812 ± 0.171	0.812 ± 0.171	0.796 ± 0.157	0.796 ± 0.157	0.816 ± 0.148	0.812 ± 0.157
yeast5	0.864 ± 0.102	0.873 ± 0.096	0.837 ± 0.118	0.846 ± 0.115	0.876 ± 0.118 $3,4$	0.878 ± 0.111 3.4
shuttle-c2-vs-c4	0.990 ± 0.069 3,4	0.990 ± 0.069 $3,4$	0.800 ± 0.374	0.800 ± 0.374	0.900 ± 0.282	0.900 ± 0.282
ecoli-0-1-4-7- vs -2-3-5-6	0.741 ± 0.162	0.758 ± 0.159 $3,4$	0.727 ± 0.166	0.727 ± 0.166	0.730 ± 0.167	0.734 ± 0.161
yeast-0-3-5-9-vs-7-8	0.522 ± 0.123 3,4,5,6	0.530 ± 0.138 3,4,5,6	0.320 ± 0.123	0.346 ± 0.128 ₃	0.374 ± 0.132	0.444 ± 0.151 $3.4.5$
yeast-1- vs -7	0.327 ± 0.202	0.353 ± 0.196	0.350 ± 0.203	0.453 ± 0.197 $1,2,3,5$	0.403 ± 0.208 1.3	0.510 ± 0.222 all
yeast-1-2-8-9- vs -7	0.277 ± 0.175	0.313 ± 0.175 ₁	0.253 ± 0.149	0.380 ± 0.170 $1,2,3$	0.387 ± 0.195 $1,2,3$	0.457 ± 0.169
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.830 ± 0.153	0.840 ± 0.156	0.810 ± 0.170	0.810 ± 0.170	0.820 ± 0.158	0.825 ± 0.160
glass-0-1-5-vs-2	0.478 ± 0.272	0.483 ± 0.252	0.730 ± 0.255 $1,2$	0.740 ± 0.263 $1,2$	0.777 ± 0.225 1.2	0.763 ± 0.236 1.2
yeast-2-vs-4	0.772 ± 0.122 3,4,5,6	0.776 ± 0.123 $3,4,5,6$	0.682 ± 0.123	0.689 ± 0.126	0.715 ± 0.125 3,4	0.740 ± 0.138 3,4,5
glass-0-6-vs-5	0.920 ± 0.208 3,4	0.920 ± 0.208 3,4	0.630 ± 0.357	0.610 ± 0.378	0.830 ± 0.257 3,4	0.840 ± 0.253 3,4
glass2	0.510 ± 0.279 $-$	0.510 ± 0.250 $-$	0.730 ± 0.225 $1,2$	0.753 ± 0.226 $1,2$	0.755 ± 0.231 $1,2$	0.750 ± 0.233 _{1,2}
yeast-2-vs-8	0.580 ± 0.220 $-$	0.610 ± 0.218 3,4,5,6	0.550 ± 0.229	0.550 ± 0.229 $-$	0.550 ± 0.229 $-$	0.560 ± 0.221 $-$
vowel0	0.983 ± 0.053 3,4,5,6	0.983 ± 0.053 3,4,5,6	0.792 ± 0.122	0.827 ± 0.114 3	0.906 ± 0.119 3,4	0.910 ± 0.116 3,4
glass-0-4-vs-5	0.940 ± 0.190 3,4	0.950 ± 0.180 3,4	0.740 ± 0.303	0.730 ± 0.319 $-$	0.960 ± 0.135 3,4	0.950 ± 0.150 3,4
glass-0-1-4-6-vs-2	0.477 ± 0.255	0.510 ± 0.285 $-$	0.713 ± 0.264 $1,2$	0.732 ± 0.232 $1,2$	0.757 ± 0.218 $1,2$	0.762 ± 0.215 $1,2$
yeast4	0.456 ± 0.149 $-$	0.474 ± 0.168 $-$	0.464 ± 0.130 $-$	$\begin{array}{c} 0.523 \pm 0.132 \\ 1,2,3 \\ 0.835 \pm 0.155 \end{array}$	$0.517 \pm 0.129 \\ 1.3 \\ 0.845 \pm 0.157$	0.601 ± 0.143 all 0.845 ± 0.157
ecoli-0-4-6-vs-5	0.850 ± 0.158	0.850 ± 0.158	0.830 ± 0.153	_	_	_
page-blocks-1-3-vs-4	0.862 ± 0.183 $3.4,5,6$ 0.831 ± 0.081	0.875 ± 0.180 $3,4,5,6$ 0.835 ± 0.080	0.611 ± 0.227	0.652 ± 0.235	0.710 ± 0.187 0.822 ± 0.082	0.723 ± 0.189 3.4 0.824 ± 0.081
yeast-0-2-5-7-9-vs-3-6-8	0.831 ± 0.081 3.4 0.788 ± 0.190	0.835 ± 0.080 $3,4$ 0.782 ± 0.184	0.810 ± 0.081	0.809 ± 0.083	0.822 ± 0.082 3.4 0.724 ± 0.180	0.824 ± 0.081 3.4 0.724 ± 0.180
ecoli-0-1-vs-2-3-5	3,4,5,6	0.782 ± 0.184 $3,4,5,6$ 0.761 ± 0.187	0.698 ± 0.179	0.702 ± 0.174	_	_
ecoli-0-6-7-vs-3-5	0.756 ± 0.197 3,4,5,6	3,4,5,6	0.673 ± 0.205	0.682 ± 0.198	0.685 ± 0.206	0.695 ± 0.197
ecoli-0-3-4-7-vs-5-6	0.824 ± 0.158 3 0.736 ± 0.197	0.828 ± 0.160 0.750 ± 0.192	0.772 ± 0.174	0.800 ± 0.164	0.812 ± 0.151	0.824 ± 0.153 0.714 ± 0.189
ecoli-0-2-6-7-vs-3-5	0.736 ± 0.197 3.5 0.992 ± 0.016	$0.750 \pm 0.192 \\ 3,4,5 \\ 0.992 \pm 0.016$	0.685 ± 0.203	0.695 ± 0.191	0.686 ± 0.201	
shuttle-c0-vs-c4	_	_	0.991 ± 0.016	0.991 ± 0.016	0.992 ± 0.016	0.992 ± 0.016
ecoli-0-3-4-vs-5	0.845 ± 0.205	0.845 ± 0.199 $-$	0.835 ± 0.203	0.840 ± 0.204	0.845 ± 0.205	0.850 ± 0.200 $-$

Table 7: Results for Recall metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)								
$Mean\ rank$	3.854	4.439	1.707	2.512	3.915	4.573			
	3,4	1,3,4	_	3	3,4	3,4,5			

Table 8: Results for mean ranks according to Recall metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.906 ± 0.142	0.906 ± 0.143	0.825 ± 0.166	0.824 ± 0.165	0.842 ± 0.165	0.842 ± 0.164
ecoli-0-2-3-4- vs -5	0.911 ± 0.078	0.908 ± 0.079	0.898 ± 0.080	0.902 ± 0.077	$0.909 \stackrel{-}{\pm} 0.079$	0.906 ± 0.078
glass-0-1-6-vs-2	$0.668 \stackrel{2}{\pm} 0.127$	0.654 ± 0.117	0.740 ± 0.119	0.744 ± 0.118	0.743 ± 0.100	0.761 ± 0.098
ecoli- 0 - 1 - vs - 5	$0.913 \stackrel{2}{\pm} 0.076$	0.917 ± 0.073	$0.901 \stackrel{1,2}{\pm} 0.079$	0.900 ± 0.079	0.904 ± 0.078	$0.909 \overset{1,2}{\pm} 0.075$
$yeast\hbox{-} 1\hbox{-} 4\hbox{-} 5\hbox{-} 8\hbox{-} vs\hbox{-} 7$	0.548 ± 0.074	0.557 ± 0.075	0.584 ± 0.087	0.597 ± 0.099	0.598 ± 0.082	0.617 ± 0.090
ecoli4	0.920 ± 0.095	0.919 ± 0.094	0.927 ± 0.090	0.925 ± 0.089	0.934 ± 0.086	0.932 ± 0.085
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.891 ± 0.073	0.853 ± 0.120	0.595 ± 0.091	0.852 ± 0.082	0.651 ± 0.087	0.849 ± 0.132
glass5	0.814 ± 0.201	$0.819 \overset{3.5}{\pm} 0.202$	0.829 ± 0.190	0.829 ± 0.181	$0.871 \stackrel{3}{\pm} 0.172$	0.873 ± 0.172
ecoli-0-3-4-6- vs -5	0.909 ± 0.087	0.907 ± 0.088	0.896 ± 0.091	0.893 ± 0.090	0.900 ± 0.093	0.902 ± 0.094
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.788 ± 0.067	0.789 ± 0.058	0.771 ± 0.057	0.787 ± 0.057	0.797 ± 0.055	0.803 ± 0.056
yeast6	$0.812 \stackrel{3}{\pm} 0.093$	0.814 ± 0.091	0.828 ± 0.089	0.838 ± 0.088	0.839 ± 0.087	0.852 ± 0.074
ecoli- 0 - 6 - 7 - vs - 5	0.867 ± 0.100	$0.866 \stackrel{1}{\pm} 0.103$	0.865 ± 0.098	0.866 ± 0.099	$0.871\overset{1,2}{\pm}0.102$	0.870 ± 0.102
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.853 ± 0.165	0.843 ± 0.158	0.804 ± 0.167	0.809 ± 0.175	0.894 ± 0.146	0.893 ± 0.146
ecoli-0-1-3-7-vs-2-6	0.842 ± 0.197	0.840 ± 0.197	0.846 ± 0.205	0.844 ± 0.204	0.840 ± 0.206	0.837 ± 0.202
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.791 ± 0.039	0.788 ± 0.043	0.763 ± 0.050	0.763 ± 0.049	0.786 ± 0.048	0.789 ± 0.045
ecoli - 0 - 1 - 4 - 7 - vs - 5 - 6	0.894 ± 0.084	0.892 ± 0.084	0.894 ± 0.077	0.891 ± 0.078	0.903 ± 0.074	0.899 ± 0.078
yeast5	0.923 ± 0.050	0.927 ± 0.048	0.911 ± 0.059	0.914 ± 0.057	0.928 ± 0.059	0.928 ± 0.056
shuttle-c2-vs-c4	0.995 ± 0.034	0.995 ± 0.034	0.900 ± 0.187	0.900 ± 0.187	0.950 ± 0.141	0.950 ± 0.141
$ecoli\mbox{-}0\mbox{-}1\mbox{-}4\mbox{-}7\mbox{-}vs\mbox{-}2\mbox{-}3\mbox{-}5\mbox{-}6$	0.852 ± 0.078	0.858 ± 0.075	0.861 ± 0.082	0.859 ± 0.082	0.858 ± 0.082	0.856 ± 0.079
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.707 ± 0.063	$0.704 \stackrel{5}{\pm} 0.069$	0.644 ± 0.061	0.651 ± 0.061	0.661 ± 0.065	$0.683 \stackrel{1}{\pm} 0.071$
yeast-1-vs-7	0.627 ± 0.101	0.633 ± 0.099	0.627 ± 0.101	0.646 ± 0.096	0.636 ± 0.098	0.665 ± 0.106
y east - 1 - 2 - 8 - 9 - v s - 7	0.619 ± 0.088	0.635 ± 0.088	0.589 ± 0.074	0.635 ± 0.087	$0.647 \stackrel{-}{\pm} 0.094$	0.673 ± 0.085
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.908 ± 0.076	$0.911 \stackrel{3}{\pm} 0.077$	0.902 ± 0.085	$0.902 \stackrel{3}{\pm} 0.085$	0.905 ± 0.077	0.908 ± 0.078
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.667 ± 0.134	$0.660 \stackrel{6}{\pm} 0.129$	0.734 ± 0.122	0.731 ± 0.127	0.739 ± 0.108	0.734 ± 0.114
yeast-2-vs-4	$0.873 \stackrel{2}{\pm} 0.060$	0.873 ± 0.061	0.836 ± 0.061	0.838 ± 0.063	0.850 ± 0.063	0.859 ± 0.068
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	$3,4,5,6 \\ 0.945 \pm 0.103$	0.945 ± 0.103	0.806 ± 0.186	0.796 ± 0.195	0.900 ± 0.132	0.905 ± 0.130
glass2	0.699 ± 0.141	0.692 ± 0.127	0.759 ± 0.114	0.759 ± 0.116	0.763 ± 0.120	0.755 ± 0.120
yeast-2-vs-8	$0.776 \stackrel{2}{\pm} 0.107$	0.787 ± 0.105	0.773 ± 0.115	0.773 ± 0.115	0.772 ± 0.116	0.774 ± 0.112
vowel0	0.991 ± 0.026	0.991 ± 0.026	0.894 ± 0.061	0.911 ± 0.057	0.950 ± 0.059	0.952 ± 0.058
glass- 0 - 4 - vs - 5	0.959 ± 0.096	0.962 ± 0.091	0.857 ± 0.148	0.852 ± 0.156	0.960 ± 0.077	0.955 ± 0.082
glass-0-1-4-6-vs-2	0.675 ± 0.126	0.689 ± 0.142	$0.746 \stackrel{-}{\pm} 0.126$	0.745 ± 0.118	0.751 ± 0.113	0.752 ± 0.110
yeast4	0.712 ± 0.074	0.718 ± 0.083	0.719 ± 0.065	0.739 ± 0.065	0.739 ± 0.064	0.770 ± 0.069
ecoli- 0 - 4 - 6 - vs - 5	0.918 ± 0.079	0.915 ± 0.081	0.903 ± 0.079	0.906 ± 0.080	0.910 ± 0.083	$0.910 \stackrel{all}{\pm} 0.083$
page-blocks-1-3-vs-4	$0.915 \stackrel{all}{\pm} 0.092$	0.921 ± 0.088	0.797 ± 0.113	0.815 ± 0.116	0.841 ± 0.092	0.848 ± 0.094
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.894 ± 0.040	0.893 ± 0.039	0.896 ± 0.040	0.895 ± 0.041	$0.898 \stackrel{3}{\pm} 0.041$	$0.898 \stackrel{3}{\pm} 0.040$
ecoli-0-1-vs-2-3-5	$0.876 \stackrel{2}{\pm} 0.092$	0.872 ± 0.089	$0.848 \stackrel{4}{\pm} 0.090$	0.849 ± 0.088	$0.857 \stackrel{6}{\pm} 0.089$	0.857 ± 0.090
ecoli-0-6-7-vs-3-5	0.863 ± 0.100	0.863 ± 0.094	0.828 ± 0.106	0.830 ± 0.103	0.832 ± 0.107	0.833 ± 0.103
ecoli-0-3-4-7-vs-5-6	0.895 ± 0.076	0.895 ± 0.078	0.879 ± 0.087	0.891 ± 0.083	$0.897 \stackrel{-}{\pm} 0.076$	0.901 ± 0.077
ecoli-0-2-6-7-vs-3-5	0.852 ± 0.094	0.858 ± 0.091	0.835 ± 0.105	0.837 ± 0.097	$0.830 \stackrel{1,2}{\pm} 0.101$	0.840 ± 0.097
shuttle-c0-vs-c4	0.996 ± 0.008	$0.996 \stackrel{5}{\pm} 0.008$	$0.996 \stackrel{5}{\pm} 0.008$	0.996 ± 0.008	0.996 ± 0.008	0.996 ± 0.008
ecoli-0-3-4-vs-5	0.911 ± 0.102	0.909 ± 0.098	0.909 ± 0.104	0.912 ± 0.105	0.913 ± 0.106	0.916 ± 0.104
	-	-	_	-	_	_

Table 9: Results for AUC metric $\,$

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	3.817	3.780	2.207	2.634	4.061	4.500
	3,4	3,4	_	_	3,4	3,4,5

Table 10: Results for mean ranks according to AUC metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.872 ± 0.242	0.872 ± 0.243	0.768 ± 0.273	0.768 ± 0.273	0.790 ± 0.273	0.791 ± 0.272
ecoli-0-2-3-4-vs-5	0.905 ± 0.087	0.902 ± 0.087	0.889 ± 0.090	0.895 ± 0.086	0.902 ± 0.088	0.899 ± 0.087
glass-0-1-6-vs-2	$0.605 \stackrel{2}{\pm} 0.220$	0.591 ± 0.212	0.718 ± 0.160	0.730 ± 0.130	$0.732 \stackrel{-}{\pm} 0.105$	0.750 ± 0.102
ecoli-0-1-vs-5	$0.906 \stackrel{2}{\pm} 0.086$	0.910 ± 0.082	0.891 ± 0.091	0.891 ± 0.091	0.895 ± 0.088	0.901 ± 0.085
yeast-1-4-5-8-vs-7	$0.294 \stackrel{-}{\pm} 0.244$	0.344 ± 0.232	0.458 ± 0.194	0.502 ± 0.207	0.513 ± 0.171	0.565 ± 0.146
ecoli4	0.911 ± 0.113	0.910 ± 0.113	0.919 ± 0.103	0.917 ± 0.102	0.927 ± 0.099	0.925 ± 0.098
led7digit - 0 - 2 - 4 - 5 - 6 - 7 - 8 - 9 - vs - 1	0.886 ± 0.081	0.826 ± 0.183	0.358 ± 0.261	0.837 ± 0.100	0.534 ± 0.188	0.820 ± 0.184
glass5	0.698 ± 0.388	0.703 ± 0.390	0.743 ± 0.347	0.750 ± 0.328	0.809 ± 0.315	0.810 ± 0.315
ecoli-0-3-4-6-vs-5	0.901 ± 0.100	0.898 ± 0.100	0.888 ± 0.102	0.885 ± 0.101	0.892 ± 0.104	0.895 ± 0.104
yeast-0-5-6-7-9-vs-4	0.772 ± 0.082	0.775 ± 0.070	0.747 ± 0.076	0.773 ± 0.069	0.783 ± 0.066	0.795 ± 0.063
yeast6	$0.785 \stackrel{3}{\pm} 0.125$	$0.788 \stackrel{3}{\pm} 0.122$	0.805 ± 0.113	0.819 ± 0.111	$0.820 \stackrel{3}{\pm} 0.113$	0.839 ± 0.090
ecoli-0-6-7-vs-5	0.853 ± 0.119	0.852 ± 0.124	0.849 ± 0.116	0.851 ± 0.117	0.856 ± 0.121	0.856 ± 0.120
glass-0-1-6-vs-5	$0.793 \stackrel{2}{\pm} 0.294$	0.790 ± 0.269	0.729 ± 0.301	0.726 ± 0.321	0.858 ± 0.245	0.857 ± 0.245
ecoli-0-1-3-7-vs-2-6	0.734 ± 0.383	0.733 ± 0.382	0.741 ± 0.387	0.739 ± 0.385	0.736 ± 0.384	0.732 ± 0.382
yeast-0-2-5-6-vs-3-7-8-9	0.777 ± 0.047	0.775 ± 0.052	0.729 ± 0.069	0.729 ± 0.068	0.762 ± 0.064	0.767 ± 0.060
ecoli-0-1-4-7-vs-5-6	0.884 ± 0.103	0.882 ± 0.103	0.884 ± 0.087	0.881 ± 0.088	0.895 ± 0.083	0.890 ± 0.089
yeast5	$0.919 \stackrel{2}{\pm} 0.056$	0.924 ± 0.052	0.906 ± 0.066	0.910 ± 0.064	0.924 ± 0.065	0.925 ± 0.060
shuttle- $c2$ - vs - $c4$	0.994 ± 0.041	0.994 ± 0.041	0.817 ± 0.364	0.817 ± 0.364	0.908 ± 0.273	0.908 ± 0.273
ecoli-0-1-4-7-vs-2-3-5-6	$0.839 \stackrel{3,4}{\pm} 0.094$	0.847 ± 0.090	0.844 ± 0.100	0.843 ± 0.100	0.842 ± 0.100	0.841 ± 0.095
yeast-0-3-5-9-vs-7-8	0.677 ± 0.084 $3,4,5,6$	0.676 ± 0.094	0.541 ± 0.129	0.559 ± 0.130	0.581 ± 0.127	0.624 ± 0.131
yeast-1-vs-7	0.510 ± 0.205	$3,4,5,6$ 0.534 ± 0.192	0.523 ± 0.204	0.589 ± 0.176	$0.558 \stackrel{3}{\pm} 0.187$	0.620 ± 0.175
yeast-1-2-8-9-vs-7	$0.467 \stackrel{-}{\pm} 0.220$	0.507 ± 0.206	0.435 ± 0.210	0.563 ± 0.148	0.550 ± 0.215	0.625 ± 0.121
ecoli-0-1-4-6-vs-5	0.900 ± 0.085	0.904 ± 0.087	0.892 ± 0.097	0.892 ± 0.097	0.896 ± 0.087	0.899 ± 0.089
glass-0-1-5-vs-2	0.591 ± 0.239	0.597 ± 0.220	0.707 ± 0.181	0.704 ± 0.185	0.721 ± 0.143	0.715 ± 0.149
yeast-2-vs-4	0.864 ± 0.068 $3,4,5,6$	0.865 ± 0.069	0.818 ± 0.074	0.821 ± 0.075	0.836 ± 0.074	0.847 ± 0.079
glass-0-6-vs-5	0.930 ± 0.162	0.930 ± 0.162	0.713 ± 0.338	0.685 ± 0.366	0.879 ± 0.183	0.885 ± 0.181
glass2	0.624 ± 0.251	0.628 ± 0.226	0.741 ± 0.153	0.743 ± 0.154	0.746 ± 0.158	0.738 ± 0.157
yeast-2-vs-8	0.735 ± 0.149	0.752 ± 0.142	0.718 ± 0.181	0.718 ± 0.181	0.717 ± 0.181	0.723 ± 0.174
vowel0	0.991 ± 0.028	0.991 ± 0.028	0.885 ± 0.070	0.905 ± 0.065	0.946 ± 0.066	0.949 ± 0.064
glass-0-4-vs-5	0.946 ± 0.157	$3,4,5,6$ 0.949 ± 0.153	0.811 ± 0.245	0.797 ± 0.270	0.957 ± 0.085	0.951 ± 0.092
glass-0-1-4-6-vs-2	$0.599 \stackrel{3,4}{\pm} 0.237$	0.616 ± 0.250	0.712 ± 0.207	0.727 ± 0.156	0.736 ± 0.149	0.736 ± 0.147
yeast4	0.655 ± 0.113	0.663 ± 0.129	0.665 ± 0.098	0.701 ± 0.092	0.699 ± 0.091	0.745 ± 0.092
ecoli-0-4-6-vs-5	0.911 ± 0.089	0.908 ± 0.090	0.896 ± 0.088	0.899 ± 0.088	0.903 ± 0.091	0.903 ± 0.091
page-blocks-1-3-vs-4	$0.907 \stackrel{all}{\pm} 0.106$	0.914 ± 0.103	0.761 ± 0.147	0.784 ± 0.149	0.823 ± 0.110	0.831 ± 0.113
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.890 ± 0.043	0.890 ± 0.042	0.891 ± 0.045	0.890 ± 0.046	0.894 ± 0.045	0.893 ± 0.044
ecoli-0-1-vs-2-3-5	$0.864 \stackrel{2}{\pm} 0.111$	0.860 ± 0.108	0.827 ± 0.112	0.829 ± 0.109	0.840 ± 0.109	0.839 ± 0.110
ecoli-0-6-7-vs-3-5	$0.848 \stackrel{-}{\pm} 0.119$	0.850 ± 0.113	0.804 ± 0.131	0.808 ± 0.125	$0.809 \stackrel{-}{\pm} 0.132$	0.813 ± 0.125
ecoli-0-3-4-7-vs-5-6	$0.887 \stackrel{-}{\pm} 0.086$	0.887 ± 0.087	0.867 ± 0.102	0.881 ± 0.094	0.889 ± 0.085	0.894 ± 0.086
ecoli-0-2-6-7-vs-3-5	$0.835 \stackrel{-}{\pm} 0.118$	0.843 ± 0.110	0.812 ± 0.129	0.816 ± 0.118	$0.808 \stackrel{1,2}{\pm} 0.125$	0.822 ± 0.116
shuttle-c0-vs-c4	$0.996 \stackrel{-}{\pm} 0.008$	0.996 ± 0.008	$0.995 \stackrel{5}{\pm} 0.008$	0.995 ± 0.008	$0.996 \stackrel{-}{\pm} 0.008$	0.996 ± 0.008
	$0.900 \stackrel{-}{\pm} 0.124$	0.899 ± 0.120	0.898 ± 0.126	0.900 ± 0.126	0.902 ± 0.127	0.906 ± 0.124

Table 11: Results for GMEAN metric $\,$

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)								
Mean rank	3.671	3.866	2.159	2.646	4.134	4.524			
	3,4	3,4	_	3	3,4	3,4,5			

Table 12: Results for mean ranks according to GMEAN metric