Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.573 ± 0.119	0.598 ± 0.141	0.715 ± 0.115	0.609 ± 0.105	0.716 ± 0.116	0.605 ± 0.108
ecoli-0-3-4-7-vs-5-6	0.837 ± 0.083	0.897 ± 0.075	0.885 ± 0.078	0.887 ± 0.086	0.885 ± 0.078	0.891 ± 0.079
shuttle- $c2$ - vs - $c4$	0.999 ± 0.005	$0.999 \stackrel{1}{\pm} 0.005$	$0.890 \stackrel{1}{\pm} 0.200$	0.886 ± 0.202	$0.890 \stackrel{1}{\pm} 0.200$	$0.888 \stackrel{1}{\pm} 0.201$
glass-0-1-4-6-vs-2	0.582 ± 0.129	0.610 ± 0.154	0.727 ± 0.104	0.642 ± 0.089	0.727 ± 0.103	0.645 ± 0.082
yeast-1-2-8-9-vs-7	0.541 ± 0.012	0.597 ± 0.048	0.683 ± 0.087	0.596 ± 0.060	0.683 ± 0.086	0.599 ± 0.056
ecoli-0-1-4-6-vs-5	0.891 ± 0.088	0.902 ± 0.087	0.899 ± 0.079	$0.900 \stackrel{1}{\pm} 0.075$	0.902 ± 0.076	$0.900 \stackrel{1}{\pm} 0.081$
$glass\hbox{-}0\hbox{-}1\hbox{-}6\hbox{-}vs\hbox{-}5$	0.912 ± 0.144	$0.888 \stackrel{1}{\pm} 0.151$	$0.861 \stackrel{1}{\pm} 0.151$	0.861 ± 0.151	$0.861 \stackrel{1}{\pm} 0.151$	$0.860 \stackrel{1}{\pm} 0.151$
yeast-2- vs -4	0.591 ± 0.122	0.852 ± 0.098	0.855 ± 0.071	0.845 ± 0.083	0.856 ± 0.070	0.856 ± 0.068
glass-0-6-vs-5	0.925 ± 0.149	$0.905 \stackrel{1}{\pm} 0.156$	0.840 ± 0.178	0.840 ± 0.178	0.840 ± 0.178	0.840 ± 0.178
ecoli-0-3-4-6-vs-5	0.827 ± 0.099	0.899 ± 0.104	0.892 ± 0.087	0.895 ± 0.089	0.892 ± 0.087	0.892 ± 0.092
y east - 0 - 3 - 5 - 9 - vs - 7 - 8	0.539 ± 0.030	$0.708 \stackrel{1}{\pm} 0.073$	$0.654 \stackrel{1}{\pm} 0.066$	$0.644 \stackrel{1}{\pm} 0.056$	$0.668 \stackrel{1}{\pm} 0.066$	$0.667 \stackrel{1}{\pm} 0.068$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.511 ± 0.115	$0.609 \overset{all}{\pm} 0.155$	$0.705 \stackrel{1}{\pm} 0.115$	0.572 ± 0.080	0.703 ± 0.116	0.572 ± 0.087
ecoli-0-6-7-vs-5	0.838 ± 0.103	0.878 ± 0.096	0.869 ± 0.102	0.865 ± 0.104	0.861 ± 0.101	0.860 ± 0.102
ecoli-0-2-3-4- vs -5	0.846 ± 0.094	0.902 ± 0.084	0.904 ± 0.078	0.902 ± 0.078	0.902 ± 0.077	0.897 ± 0.077
ecoli4	0.896 ± 0.065	0.933 ± 0.066	0.934 ± 0.081	$0.941 \stackrel{1}{\pm} 0.078$	0.936 ± 0.081	$0.938 \stackrel{1}{\pm} 0.079$
yeast5	0.801 ± 0.029	0.846 ± 0.023	0.972 ± 0.024	0.965 ± 0.036	0.972 ± 0.024	0.964 ± 0.040
ecoli-0-4- 6 - vs - 5	0.888 ± 0.102	0.901 ± 0.096	0.901 ± 0.082	0.901 ± 0.085	0.902 ± 0.082	0.901 ± 0.084
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.871 ± 0.065	0.876 ± 0.067	0.654 ± 0.091	0.889 ± 0.070	$0.654 \stackrel{1}{\pm} 0.091$	0.889 ± 0.071
ecoli- 0 - 1 - vs - 5	0.853 ± 0.126	0.905 ± 0.082	0.900 ± 0.075	0.907 ± 0.075	0.903 ± 0.072	0.907 ± 0.074
ecoli - 0 - 2 - 6 - 7 - vs - 3 - 5	0.640 ± 0.156	0.722 ± 0.130	0.837 ± 0.106	0.829 ± 0.099	0.829 ± 0.106	0.824 ± 0.099
ecoli - 0 - 1 - 4 - 7 - vs - 2 - 3 - 5 - 6	0.668 ± 0.121	0.783 ± 0.140	0.828 ± 0.101	0.834 ± 0.091	0.856 ± 0.091	0.872 ± 0.080
shuttle-c0-vs-c4	0.989 ± 0.013	0.989 ± 0.013	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009
ecoli-0-6-7- vs -3-5	0.633 ± 0.171	0.746 ± 0.132	0.831 ± 0.105	0.832 ± 0.095	0.829 ± 0.110	0.833 ± 0.098
vowel0	0.903 ± 0.024	0.926 ± 0.028	0.875 ± 0.062	0.879 ± 0.054	0.915 ± 0.051	0.891 ± 0.043
glass4	0.772 ± 0.145	0.805 ± 0.145	0.758 ± 0.151	0.699 ± 0.159	0.772 ± 0.141	0.730 ± 0.159
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	$0.500 \stackrel{4}{\pm} 0.022$	0.737 ± 0.127	0.797 ± 0.052	0.739 ± 0.088	0.804 ± 0.052	0.765 ± 0.087
$yeast\hbox{-} 0\hbox{-} 2\hbox{-} 5\hbox{-} 6\hbox{-} vs\hbox{-} 3\hbox{-} 7\hbox{-} 8\hbox{-} 9$	0.776 ± 0.049	0.777 ± 0.045	0.720 ± 0.054 4.6	0.654 ± 0.058	0.751 ± 0.057	$0.700 \stackrel{1}{\pm} 0.068$
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.627 ± 0.170	0.849 ± 0.119 1	0.853 ± 0.096	0.859 ± 0.082	0.853 ± 0.096	0.867 ± 0.079
ecoli-0-3-4-vs-5	0.854 ± 0.110	0.899 ± 0.107	0.908 ± 0.103	0.909 ± 0.102	0.903 ± 0.103	0.904 ± 0.100
glass5	0.895 ± 0.155	0.885 ± 0.156	0.893 ± 0.165	0.891 ± 0.165	0.898 ± 0.156	0.895 ± 0.156 $1,2,3$
yeast4	0.525 ± 0.025	0.595 ± 0.046	0.805 ± 0.068 $1,2,4,6$	$0.676 \stackrel{?}{\pm} 0.071$ $1,2,6$	0.809 ± 0.069	0.652 ± 0.087
glass-0-4-vs-5	0.930 ± 0.119	0.915 ± 0.125	0.915 ± 0.146	0.919 ± 0.144	0.910 ± 0.147	0.919 ± 0.144
yeast6	0.638 ± 0.023	0.774 ± 0.031	0.888 ± 0.056	0.843 ± 0.040	0.887 ± 0.056 $1,2,4,6$	0.834 ± 0.054 $1,2$
page-blocks-1-3-vs-4	0.774 ± 0.102	0.818 ± 0.126	0.758 ± 0.106	0.739 ± 0.088	0.796 ± 0.108	0.754 ± 0.090
yeast-1-vs-7	0.594 ± 0.042	0.702 ± 0.101	0.664 ± 0.093	0.671 ± 0.087	0.656 ± 0.098	0.674 ± 0.094
ecoli-0-1-3-7-vs-2-6	0.845 ± 0.200 $4,6$	$0.846 \pm 0.199 \\ 4,5,6$	0.842 ± 0.203 $4,6$	0.837 ± 0.199	0.839 ± 0.204	0.833 ± 0.200
yeast-1-4-5-8- vs -7	0.546 ± 0.014	0.582 ± 0.055	0.630 ± 0.098 $1,2,4,6$	0.586 ± 0.064	0.630 ± 0.098 $1,2,4,6$	0.583 ± 0.066
ecoli-0-1-4-7-vs-5-6	0.842 ± 0.128	0.878 ± 0.114	0.865 ± 0.110	0.870 ± 0.086	0.870 ± 0.104	0.886 ± 0.083
$yeast\-2\-vs\-8$	0.694 ± 0.078	0.784 ± 0.111	0.776 ± 0.111	0.780 ± 0.109	0.776 ± 0.111	0.775 ± 0.112
$yeast\hbox{-} 0\hbox{-} 2\hbox{-} 5\hbox{-} 7\hbox{-} 9\hbox{-} vs\hbox{-} 3\hbox{-} 6\hbox{-} 8$	0.542 ± 0.025	0.829 ± 0.097	0.901 ± 0.034	0.877 ± 0.054	0.902 ± 0.034	0.891 ± 0.052
glass2	0.618 ± 0.101	0.648 ± 0.128	0.740 ± 0.109	0.663 ± 0.079	0.739 ± 0.109	0.664 ± 0.081
	<u> </u>	1	1,2,4,6	1	1,2,4,6	1

Table 1: Results for BAC metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
$Mean\ rank$	2.037	3.695	4.012	3.463	4.159	3.634
	_	1	1	1	1	1

Table 2: Results for mean ranks according to BAC metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.187 ± 0.062	0.210 ± 0.097	0.303 ± 0.098	0.203 ± 0.054	0.304 ± 0.100	0.201 ± 0.055
ecoli-0-3-4-7-vs-5-6	0.513 ± 0.136	0.759 ± 0.107	0.779 ± 0.123	0.758 ± 0.128	0.779 ± 0.123	$0.767 \stackrel{-}{\pm} 0.124$
shuttle- $c2$ - vs - $c4$	0.990 ± 0.069	$0.990 \stackrel{1}{\pm} 0.069$	$0.787 \stackrel{1}{\pm} 0.398$	0.746 ± 0.393	0.787 ± 0.398	$0.763 \stackrel{1}{\pm} 0.394$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 4\hbox{-} 6\hbox{-} vs\hbox{-} 2$	0.178 ± 0.061	0.203 ± 0.088	0.311 ± 0.090	0.205 ± 0.035	$0.309 \stackrel{-}{\pm} 0.088$	$0.207 \stackrel{-}{\pm} 0.034$
yeast-1-2-8-9-vs-7	0.067 ± 0.001	$0.076 \stackrel{1}{\pm} 0.007$	0.169 ± 0.056	0.084 ± 0.035	0.169 ± 0.056	0.085 ± 0.035
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.661 ± 0.184	0.753 ± 0.176	0.805 ± 0.109	0.787 ± 0.103	0.809 ± 0.102	$0.787 \stackrel{1}{\pm} 0.119$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.763 ± 0.264	$0.752 \stackrel{1}{\pm} 0.268$	0.747 ± 0.264	$0.740 \stackrel{1}{\pm} 0.264$	0.747 ± 0.264	$0.736 \stackrel{1}{\pm} 0.261$
yeast-2- vs -4	0.247 ± 0.120	0.617 ± 0.151	0.759 ± 0.111	0.701 ± 0.176	0.736 ± 0.110	$0.692 \stackrel{-}{\pm} 0.120$
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.841 ± 0.279	$0.815 \stackrel{1}{\pm} 0.286$	0.740 ± 0.335	0.736 ± 0.333	0.740 ± 0.335	0.736 ± 0.333
ecoli-0-3-4-6-vs-5	0.496 ± 0.166	0.756 ± 0.200	0.768 ± 0.147	0.772 ± 0.156	0.764 ± 0.145	$0.765 \stackrel{-}{\pm} 0.160$
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.192 ± 0.011	$0.339 \stackrel{1}{\pm} 0.070$	0.394 ± 0.122	0.381 ± 0.116	$0.408 \stackrel{1}{\pm} 0.111$	$0.401 \stackrel{1}{\pm} 0.120$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.175 ± 0.057	0.240 ± 0.121	0.306 ± 0.096	0.204 ± 0.046	0.304 ± 0.096	$0.205 \stackrel{1,2}{\pm} 0.052$
ecoli-0-6-7- vs -5	0.506 ± 0.148	0.704 ± 0.176	0.764 ± 0.171	0.715 ± 0.168	0.752 ± 0.169	$0.708 \stackrel{1}{\pm} 0.169$
ecoli- 0 - 2 - 3 - 4 - vs - 5	0.553 ± 0.167	0.752 ± 0.160	0.807 ± 0.121	0.793 ± 0.127	0.803 ± 0.121	0.786 ± 0.126
ecoli4	0.451 ± 0.126	0.690 ± 0.157	0.852 ± 0.141	0.840 ± 0.144	0.822 ± 0.144	0.800 ± 0.151
yeast5	0.136 ± 0.018	$0.169 \stackrel{1}{\pm} 0.022$	0.610 ± 0.068	0.588 ± 0.111	0.610 ± 0.068	0.586 ± 0.118
ecoli-0-4-6- vs -5	0.713 ± 0.200	0.782 ± 0.191	0.789 ± 0.142	0.777 ± 0.153	0.790 ± 0.140	0.779 ± 0.151
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.532 ± 0.088	0.611 ± 0.129	0.387 ± 0.177	0.596 ± 0.111	0.383 ± 0.173	0.593 ± 0.115
ecoli- 0 - 1 - vs - 5	0.755 ± 0.222	0.845 ± 0.117	0.865 ± 0.102	0.869 ± 0.106 1.2	0.869 ± 0.098	0.866 ± 0.105
$ecoli\hbox{-}0\hbox{-}2\hbox{-}6\hbox{-}7\hbox{-}vs\hbox{-}3\hbox{-}5$	0.322 ± 0.280	0.509 ± 0.232	0.705 ± 0.174	0.650 ± 0.174	0.687 ± 0.176 $1,2,4,6$	0.644 ± 0.168 1.2
ecoli-0-1-4-7- vs -2-3-5-6	0.441 ± 0.224	0.651 ± 0.244	0.749 ± 0.156	0.743 ± 0.144	0.780 ± 0.144 $1,2,4$	0.779 ± 0.128 $1,2,4$
shuttle-c0-vs-c4	0.978 ± 0.021	0.979 ± 0.021	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009
ecoli- 0 - 6 - 7 - vs - 3 - 5	0.284 ± 0.289	0.550 ± 0.206	0.702 ± 0.168 $1,2$	0.680 ± 0.171 $1,2$	0.696 ± 0.173 $1,2$	0.675 ± 0.167
vowel0	0.590 ± 0.034	0.641 ± 0.040	0.798 ± 0.083 $1,2,4,6$	0.762 ± 0.077 $1,2,6$	0.797 ± 0.069 $1,2,4,6$	0.671 ± 0.055 $1,2$
glass4	0.432 ± 0.219	0.523 ± 0.229 $1,4,6$	0.477 ± 0.246 4.6	0.332 ± 0.215	0.505 ± 0.229 4.6	0.387 ± 0.220
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.176 ± 0.007	0.356 ± 0.101	0.515 ± 0.095	0.430 ± 0.131	0.494 ± 0.093 $1,2,4,6$	0.431 ± 0.106 1.2
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.599 ± 0.079 3,4,6	0.605 ± 0.075 $3,4,6$	0.556 ± 0.098 4.6	0.433 ± 0.117	0.593 ± 0.091 3,4,6	0.513 ± 0.114
ecoli-0-1- vs -2-3-5	0.307 ± 0.353	0.780 ± 0.194	0.799 ± 0.149	0.792 ± 0.128	0.799 ± 0.149	0.804 ± 0.123
ecoli-0-3-4-vs-5	0.575 ± 0.174	0.752 ± 0.177	0.797 ± 0.159 $1,2$	0.807 ± 0.164	0.792 ± 0.161 1.2	0.798 ± 0.162 1.2
glass5	0.684 ± 0.254	0.685 ± 0.257	0.787 ± 0.299 $1,2,4,6$	0.752 ± 0.291	0.800 ± 0.278 $1,2,4,6$	0.761 ± 0.268 $1,2$
yeast4	0.070 ± 0.004	0.082 ± 0.008 ₁	0.330 ± 0.062	0.126 ± 0.067 $1,2$	0.325 ± 0.059 1,2,4,6	0.139 ± 0.101 $1,2,4$
glass-0-4-vs-5	0.866 ± 0.196	0.846 ± 0.198	0.867 ± 0.258	0.867 ± 0.258	0.860 ± 0.258	0.867 ± 0.258
yeast6	0.063 ± 0.004	0.109 ± 0.024 ₁	0.386 ± 0.052	0.189 ± 0.078 $1,2$	0.379 ± 0.052 $1,2,4,6$	0.205 ± 0.117 $1,2,4$
page-blocks-1-3-vs-4	0.493 ± 0.149	0.546 ± 0.174 ₁	0.551 ± 0.176	0.519 ± 0.150	0.595 ± 0.169	0.532 ± 0.146 ₁
yeast-1-vs-7	0.148 ± 0.012	0.218 ± 0.060 ₁	0.245 ± 0.095 $1,4,5,6$	0.214 ± 0.080 ₁	0.222 ± 0.073	0.207 ± 0.056 ₁
ecoli-0-1-3-7-vs-2-6	0.627 ± 0.359 $4,6$	0.641 ± 0.360 $4,6$	0.632 ± 0.356 $4,6$	0.529 ± 0.314 $-$	0.597 ± 0.345 $4,6$	0.505 ± 0.301
yeast-1-4-5-8-vs-7	0.091 ± 0.002	0.099 ± 0.011	0.145 ± 0.053 $1,2,4,6$ 0.780 ± 0.186	0.102 ± 0.024 $1,6$	0.145 ± 0.053 $1,2,4,6$ 0.778 ± 0.182	0.101 ± 0.024 ₁
ecoli-0-1-4-7-vs-5-6	0.704 ± 0.206	0.761 ± 0.189 ₁	1	0.775 ± 0.136	1	$0.786 \stackrel{1}{\pm} 0.140$
yeast-2-vs-8	0.191 ± 0.160	0.586 ± 0.181	0.665 ± 0.200 $1,2$	0.660 ± 0.205 $1,2$	0.665 ± 0.200 $1,2$	$0.661 \stackrel{1}{\pm} 0.207$ $1,2$
yeast-0-2-5-7-9-vs-3-6-8	0.193 ± 0.010	0.499 ± 0.140	0.785 ± 0.081	0.728 ± 0.179 $1,2,6$	0.752 ± 0.082 $1,2,6$	0.717 ± 0.124 _{1,2}
glass2	0.190 ± 0.052	0.222 ± 0.081 ₁	0.322 ± 0.103 $1,2,4,6$	0.210 ± 0.043	0.320 ± 0.102 1,2,4,6	0.211 ± 0.043 ₁

Table 3: Results for F1 metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
$Mean\ rank$	1.671	2.915	5.061	3.293	4.671	3.390
	_	1	all	1	1,2,4,6	1

Table 4: Results for mean ranks according to F1 metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.107 ± 0.037	0.128 ± 0.064	0.194 ± 0.068	0.115 ± 0.033	0.194 ± 0.069	0.114 ± 0.033
ecoli-0-3-4-7-vs-5-6	0.396 ± 0.164	0.715 ± 0.126	0.780 ± 0.144	0.731 ± 0.132	0.780 ± 0.143	0.738 ± 0.136
shuttle- $c2$ - vs - $c4$	0.987 ± 0.093	$0.987 \stackrel{1}{\pm} 0.093$	0.800 ± 0.400	$0.740 \stackrel{1}{\pm} 0.404$	0.800 ± 0.400	$0.763 \stackrel{1}{\pm} 0.401$
$glass\hbox{-}0\hbox{-}1\hbox{-}4\hbox{-}6\hbox{-}vs\hbox{-}2$	0.101 ± 0.035	0.121 ± 0.053	0.200 ± 0.063	0.116 ± 0.020	0.199 ± 0.062	0.117 ± 0.020
yeast-1-2-8-9-vs-7	0.034 ± 0.000	$0.040 \stackrel{1}{\pm} 0.004$	0.101 ± 0.034	$0.046 \stackrel{1}{\pm} 0.024$	0.101 ± 0.034	0.046 ± 0.024
ecoli-0-1-4-6-vs-5	0.570 ± 0.226	0.712 ± 0.218	0.834 ± 0.155	0.796 ± 0.165	0.836 ± 0.152	$0.793 \stackrel{1}{\pm} 0.171$
$glass\hbox{-}0\hbox{-}1\hbox{-}6\hbox{-}vs\hbox{-}5$	0.745 ± 0.294	$0.770 \stackrel{1}{\pm} 0.299$	0.830 ± 0.289	0.813 ± 0.291	0.830 ± 0.289	$0.807 \stackrel{1}{\pm} 0.291$
yeast-2- vs -4	0.152 ± 0.101	0.511 ± 0.154	0.818 ± 0.143	0.709 ± 0.230	0.756 ± 0.142	0.658 ± 0.153
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.850 ± 0.287	0.843 ± 0.293	0.860 ± 0.346	0.853 ± 0.347	0.860 ± 0.346	0.853 ± 0.347
ecoli- 0 - 3 - 4 - 6 - vs - 5	0.372 ± 0.181	0.702 ± 0.232	0.742 ± 0.177	0.748 ± 0.192	0.737 ± 0.175	0.739 ± 0.191
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.107 ± 0.006	$0.235 \stackrel{1}{\pm} 0.066$	0.507 ± 0.180	0.568 ± 0.251	0.464 ± 0.145	0.475 ± 0.213
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.101 ± 0.033	0.153 ± 0.083	0.196 ± 0.066	0.116 ± 0.028	0.193 ± 0.067	0.116 ± 0.032
ecoli-0-6-7-vs-5	0.387 ± 0.172	0.655 ± 0.227	0.803 ± 0.197	0.708 ± 0.204	0.796 ± 0.196	0.699 ± 0.199
ecoli - 0 - 2 - 3 - 4 - vs - 5	0.438 ± 0.201	0.694 ± 0.204	0.809 ± 0.164 $1,2,6$	0.782 ± 0.174	0.809 ± 0.172 $1,2$	0.779 ± 0.178
ecoli4	0.304 ± 0.121	0.574 ± 0.192	0.849 ± 0.171 $1,2,5,6$	$0.821 \pm 0.188 \\ 1,2,6$	0.786 ± 0.175 $1,2,6$	0.749 ± 0.191 $1,2$
yeast5	0.073 ± 0.010	0.093 ± 0.013	0.446 ± 0.069	0.428 ± 0.100	0.446 ± 0.069	0.426 ± 0.104
ecoli-0-4- 6 - vs - 5	0.646 ± 0.244	0.767 ± 0.249	0.768 ± 0.181	0.744 ± 0.197	0.770 ± 0.178	0.748 ± 0.194
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.387 ± 0.082	0.512 ± 0.189	0.481 ± 0.233	0.467 ± 0.121	0.472 ± 0.226	0.464 ± 0.126
ecoli-0-1- vs -5	0.838 ± 0.236	0.907 ± 0.139	0.960 ± 0.094	0.949 ± 0.112	0.960 ± 0.094 1.2	0.945 ± 0.114 1.2
ecoli- 0 - 2 - 6 - 7 - vs - 3 - 5	0.416 ± 0.345	0.635 ± 0.288	0.735 ± 0.193	0.639 ± 0.223	0.719 ± 0.207 $1,4,6$	0.628 ± 0.203
$ecoli\mbox{-}0\mbox{-}1\mbox{-}4\mbox{-}7\mbox{-}vs\mbox{-}2\mbox{-}3\mbox{-}5\mbox{-}6$	0.758 ± 0.295	0.826 ± 0.215	0.908 ± 0.131 $1,2,4,6$	0.862 ± 0.157 1.6	0.878 ± 0.134	0.819 ± 0.138
shuttle-c0-vs-c4	0.977 ± 0.035	0.978 ± 0.035	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000 1.2
ecoli-0-6-7-vs-3-5	0.348 ± 0.332	0.691 ± 0.236	0.750 ± 0.192 $1,2,4,6$	0.681 ± 0.206	0.746 ± 0.189 $1,2,4,6$	0.669 ± 0.188
vowel0	0.434 ± 0.036	0.484 ± 0.039	0.851 ± 0.078	0.750 ± 0.080 $1,2,6$	0.750 ± 0.072 $1,2,6$	0.559 ± 0.058 1.2
glass4	0.377 ± 0.262	0.473 ± 0.255 $1,4,6$	0.451 ± 0.280 $1,4,6$	0.272 ± 0.216	0.483 ± 0.272 $1,4,6$	0.341 ± 0.253
yeast-0-5-6-7-9-vs-4	0.097 ± 0.004	0.232 ± 0.078	0.424 ± 0.132	0.345 ± 0.145 $1,2,6$	0.381 ± 0.116 $1,2,4,6$	0.316 ± 0.101
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.612 ± 0.088	0.624 ± 0.089	0.721 ± 0.104 $1,2,5$	0.710 ± 0.129 1.2	0.696 ± 0.098 $1,2$	0.715 ± 0.099 1.2
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.466 ± 0.467	0.924 ± 0.139	0.953 ± 0.107 1.6	0.904 ± 0.146	0.953 ± 0.107 1.6	0.898 ± 0.134
ecoli-0-3-4- vs -5	0.462 ± 0.190	0.701 ± 0.191	0.786 ± 0.168 1.2	0.799 ± 0.177 $1,2$	0.783 ± 0.171 1.2	0.791 ± 0.176 1.2
glass5	0.627 ± 0.267	0.650 ± 0.281	0.837 ± 0.315 1,2,4,6	0.770 ± 0.314 $1,2$	0.857 ± 0.292 $1,2,4,6$	0.783 ± 0.294 $1,2$
yeast4	0.036 ± 0.002	0.043 ± 0.004	0.217 ± 0.043	0.071 ± 0.047 $1,2$	0.212 ± 0.039 $1,2,4,6$	0.083 ± 0.071 $1,2,4$
glass-0-4-vs-5	0.910 ± 0.200	0.910 ± 0.200	0.940 ± 0.237	0.930 ± 0.245	0.940 ± 0.237	0.930 ± 0.245
yeast6	0.033 ± 0.002	0.058 ± 0.014	0.253 ± 0.040	0.109 ± 0.054 1.2	0.247 ± 0.039 $1,2,4,6$	0.122 ± 0.085 $1,2,4$
page-blocks-1-3-vs-4	0.440 ± 0.158	0.473 ± 0.164	0.605 ± 0.210	$0.565 \pm 0.179 \\ 1.2$	0.603 ± 0.179	0.556 ± 0.172 $1,2$
yeast-1-vs-7	0.080 ± 0.007	0.127 ± 0.036	0.168 ± 0.092 all	0.132 ± 0.067	0.141 ± 0.046 $1,2,4,6$	0.123 ± 0.037
ecoli-0-1-3-7-vs-2-6	0.620 ± 0.387 4.6	0.640 ± 0.384 4.6	0.634 ± 0.387 4.6	0.507 ± 0.369	0.590 ± 0.383 $4,6$	0.484 ± 0.366
yeast-1-4-5-8- vs -7	0.048 ± 0.001	0.052 ± 0.006	0.085 ± 0.031 $1,2,4,6$	0.054 ± 0.014 $1,6$	0.085 ± 0.031 $1,2,4,6$	0.054 ± 0.014
ecoli-0-1-4-7-vs-5-6	0.746 ± 0.193	0.768 ± 0.190	0.862 ± 0.184	0.823 ± 0.164	0.842 ± 0.193	0.811 ± 0.180 1.2
yeast-2-vs-8	0.150 ± 0.191	0.683 ± 0.256	0.911 ± 0.189 $1,2$	0.856 ± 0.236	0.911 ± 0.189 1.2	0.896 ± 0.211
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.107 ± 0.006	0.362 ± 0.132	0.757 ± 0.132	0.702 ± 0.235 $1,2,5,6$	0.688 ± 0.123 $1,2,6$	0.641 ± 0.153 $1,2$
glass2	0.108 ± 0.030	0.133 ± 0.052 $1,4,6$	0.210 ± 0.078 $1,2,4,6$	0.119 ± 0.026	0.209 ± 0.078 $1,2,4,6$	0.120 ± 0.026

Table 5: Results for Precision metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)							
Mean rank	1.268	2.732	5.500	3.549	4.866	3.085		
	_	1	all	1,2,6	1,2,4,6	1		

Table 6: Results for mean ranks according to Precision metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.778 ± 0.244	0.640 ± 0.258	0.735 ± 0.222	0.887 ± 0.205	0.740 ± 0.225	0.887 ± 0.211
ecoli-0-3-4-7-vs-5-6	0.844 ± 0.180	0.832 ± 0.151	$0.796 \stackrel{2}{\pm} 0.152$	0.808 ± 0.169	$0.796 \stackrel{2}{\pm} 0.152$	0.816 ± 0.154
shuttle-c2-vs-c4	$1.000 \overset{3.5}{\pm} 0.000$	1.000 ± 0.000	$0.780 \stackrel{-}{\pm} 0.401$	0.780 ± 0.401	$0.780 \stackrel{-}{\pm} 0.401$	$0.780 \stackrel{-}{\pm} 0.401$
glass-0-1-4-6-vs-2	0.763 ± 0.273	0.655 ± 0.286	0.730 ± 0.195	0.902 ± 0.161	0.730 ± 0.195	0.917 ± 0.141
$yeast\hbox{-} 1\hbox{-} 2\hbox{-} 8\hbox{-} 9\hbox{-} vs\hbox{-} 7$	$1.000 \stackrel{2}{\pm} 0.000$	0.927 ± 0.106	0.520 ± 0.172	0.833 ± 0.221	0.520 ± 0.172	0.840 ± 0.230
ecoli-0-1-4-6-vs-5	0.850 ± 0.150	0.840 ± 0.164	0.815 ± 0.164	0.820 ± 0.158	$0.820 \stackrel{-}{\pm} 0.158$	0.820 ± 0.166
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.840 ± 0.290	0.790 ± 0.301	0.730 ± 0.303	0.730 ± 0.303	$0.730 \stackrel{-}{\pm} 0.303$	0.730 ± 0.303
yeast-2-vs-4	0.936 ± 0.083	0.838 ± 0.106	0.731 ± 0.142	0.759 ± 0.140	$0.743 \stackrel{-}{\pm} 0.142$	0.770 ± 0.131
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.860 ± 0.300	0.820 ± 0.312	0.680 ± 0.357	0.680 ± 0.357	0.680 ± 0.357	0.680 ± 0.357
ecoli- 0 - 3 - 4 - 6 - vs - 5	0.860 ± 0.159	0.850 ± 0.173	0.820 ± 0.166	0.825 ± 0.167	$0.820 \stackrel{-}{\pm} 0.166$	0.820 ± 0.173
yeast-0-3-5-9-vs-7-8	0.974 ± 0.059	0.682 ± 0.176	0.350 ± 0.144	0.346 ± 0.171	0.392 ± 0.146	0.416 ± 0.183
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	$0.700 \stackrel{all}{\pm} 0.244$	0.605 ± 0.277	0.745 ± 0.238	0.878 ± 0.181	0.745 ± 0.238	0.888 ± 0.181
ecoli-0-6-7-vs-5	$0.845 \stackrel{2}{\pm} 0.179$	0.815 ± 0.171	0.760 ± 0.199	0.770 ± 0.205	$0.745 \stackrel{2}{\pm} 0.196$	0.760 ± 0.199
ecoli-0-2-3-4-vs-5	$\begin{array}{c} 3,4,5,6 \\ 0.850 \pm 0.150 \end{array}$	$3,4,5,6 \\ 0.855 \pm 0.150$	0.835 ± 0.155	0.835 ± 0.155	0.830 ± 0.153	0.825 ± 0.152
ecoli4	0.950 ± 0.099	0.920 ± 0.116	0.880 ± 0.160	0.900 ± 0.158	0.890 ± 0.159	0.900 ± 0.158
yeast5	0.996 ± 0.031	0.996 ± 0.031	0.982 ± 0.046	0.978 ± 0.050	0.982 ± 0.046	0.978 ± 0.050
ecoli-0-4-6-vs-5	0.850 ± 0.158	0.845 ± 0.165	0.835 ± 0.155	0.840 ± 0.156	0.835 ± 0.155	0.840 ± 0.156
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.874 ± 0.127	0.845 ± 0.138	0.345 ± 0.179	0.881 ± 0.150	0.345 ± 0.179	0.883 ± 0.151
ecoli-0-1-vs-5	0.720 ± 0.248	$0.820 \stackrel{3.5}{\pm} 0.166$	0.805 ± 0.152	0.820 ± 0.150	0.810 ± 0.146	0.820 ± 0.150
$ecoli\mbox{-}0\mbox{-}2\mbox{-}6\mbox{-}7\mbox{-}vs\mbox{-}3\mbox{-}5$	0.315 ± 0.325	$0.476 \stackrel{1}{\pm} 0.266$	0.704 ± 0.206	0.717 ± 0.195	$0.691 \stackrel{-}{\pm} 0.205$	$0.704 \stackrel{1}{\pm} 0.192$
ecoli-0-1-4-7-vs-2-3-5-6	0.346 ± 0.245	$0.575 \stackrel{1}{\pm} 0.279$	0.663 ± 0.201	0.681 ± 0.184	0.722 ± 0.182	0.761 ± 0.160
shuttle-c0-vs-c4	0.980 ± 0.027	$0.980 \stackrel{1}{\pm} 0.027$	0.989 ± 0.018	0.989 ± 0.018	0.989 ± 0.018	0.989 ± 0.018
ecoli-0-6-7- vs -3-5	0.297 ± 0.359	0.520 ± 0.276	0.691 ± 0.207	0.708 ± 0.177	0.686 ± 0.217	0.710 ± 0.187
vowel0	0.929 ± 0.053	$0.954 \stackrel{1}{\pm} 0.058$	0.763 ± 0.126	0.784 ± 0.108	0.859 ± 0.102	0.850 ± 0.089
glass4	$\begin{array}{c} 3,4,5,6 \\ 0.637 \pm 0.280 \end{array}$	0.667 ± 0.288	0.567 ± 0.296	0.523 ± 0.296	0.593 ± 0.275	0.577 ± 0.296
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.977 ± 0.041	0.871 ± 0.109	0.721 ± 0.111	0.705 ± 0.168	0.758 ± 0.108	0.756 ± 0.130
$yeast \hbox{-} 0 \hbox{-} 2 \hbox{-} 5 \hbox{-} 6 \hbox{-} vs \hbox{-} 3 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9$	0.595 ± 0.099	0.595 ± 0.090	0.460 ± 0.109	0.323 ± 0.118	0.527 ± 0.117	0.420 ± 0.144
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.260 ± 0.340	0.704 ± 0.235	0.711 ± 0.192	0.728 ± 0.163	0.711 ± 0.192	0.744 ± 0.154
ecoli-0-3-4-vs-5	0.850 ± 0.193	0.845 ± 0.205	0.845 ± 0.205	0.845 ± 0.199	$0.835 \stackrel{1}{\pm} 0.203$	0.835 ± 0.197
glass5	0.810 ± 0.314	0.790 ± 0.317	0.790 ± 0.333	0.790 ± 0.333	0.800 ± 0.316	0.800 ± 0.316
yeast4	0.971 ± 0.048	0.944 ± 0.067	0.703 ± 0.140	0.886 ± 0.140	0.714 ± 0.143	0.886 ± 0.155
$glass\hbox{-} 0\hbox{-} 4\hbox{-} vs\hbox{-} 5$	$0.870 \stackrel{all}{\pm} 0.241$	0.840 ± 0.253	0.830 ± 0.293	0.840 ± 0.290	0.820 ± 0.295	0.840 ± 0.290
yeast6	0.991 ± 0.033	0.937 ± 0.086	0.837 ± 0.117	0.906 ± 0.093	0.837 ± 0.117	0.891 ± 0.101
page-blocks-1-3-vs-4	0.600 ± 0.205	$3,4,5,6 \\ 0.687 \pm 0.252$	0.541 ± 0.209	0.505 ± 0.175	0.620 ± 0.216	0.537 ± 0.179
yeast-1- vs -7	0.970 ± 0.086	0.793 ± 0.209	0.540 ± 0.206	0.730 ± 0.223	0.543 ± 0.212	0.743 ± 0.211
ecoli-0-1-3-7-vs-2-6	0.700 ± 0.400	0.700 ± 0.400	0.700 ± 0.400	$0.700 \stackrel{3.5}{\pm} 0.400$	$0.700 \stackrel{-}{\pm} 0.400$	$0.700 \stackrel{3.5}{\pm} 0.400$
$yeast\hbox{-} 1\hbox{-} 4\hbox{-} 5\hbox{-} 8\hbox{-} vs\hbox{-} 7$	1.000 ± 0.000	0.910 ± 0.125	0.513 ± 0.193	0.867 ± 0.194	0.513 ± 0.193	0.863 ± 0.201
ecoli- 0 - 1 - 4 - 7 - vs - 5 - 6	0.704 ± 0.256	0.776 ± 0.224	0.740 ± 0.220	0.756 ± 0.171	0.752 ± 0.209	0.792 ± 0.164
yeast-2-vs-8	0.870 ± 0.213	0.585 ± 0.232	0.555 ± 0.219	0.580 ± 0.202	0.555 ± 0.219	0.565 ± 0.216
$yeast\hbox{-}0\hbox{-}2\hbox{-}5\hbox{-}7\hbox{-}9\hbox{-}vs\hbox{-}3\hbox{-}6\hbox{-}8$	0.987 ± 0.026	0.905 ± 0.074	0.836 ± 0.077	0.835 ± 0.082	0.853 ± 0.078	0.856 ± 0.078
glass2	$\begin{array}{c} all \\ 0.823 \pm 0.209 \\ 2,3,5 \end{array}$	0.725 ± 0.235	0.732 ± 0.198	$ \begin{array}{c c} & - \\ 0.922 \pm 0.133 \\ & 1,2,3,5 \end{array} $	0.732 ± 0.198	0.922 ± 0.133 $1,2,3,5$

Table 7: Results for Recall metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)							
$Mean\ rank$	4.634	4.171	2.317	3.402	2.720	3.756		
	2,3,4,5	3,5	_	3	3	3,5		

Table 8: Results for mean ranks according to Recall metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.573 ± 0.119	0.598 ± 0.141	0.715 ± 0.115	0.609 ± 0.105	0.716 ± 0.116	0.605 ± 0.108
ecoli-0-3-4-7-vs-5-6	0.837 ± 0.083	0.897 ± 0.075	0.885 ± 0.078	0.887 ± 0.086	0.885 ± 0.078	$0.891 \stackrel{1}{\pm} 0.079$
shuttle-c2-vs-c4	0.999 ± 0.005	$0.999 \stackrel{1}{\pm} 0.005$	$0.890 \stackrel{1}{\pm} 0.200$	0.886 ± 0.202	$0.890 \stackrel{1}{\pm} 0.200$	$0.888 \stackrel{1}{\pm} 0.201$
$glass\hbox{-}0\hbox{-}1\hbox{-}4\hbox{-}6\hbox{-}vs\hbox{-}2$	0.582 ± 0.129	0.610 ± 0.154	0.727 ± 0.104	0.642 ± 0.089	0.727 ± 0.103	$0.645 \stackrel{-}{\pm} 0.082$
yeast-1-2-8-9- vs -7	0.541 ± 0.012	0.597 ± 0.048	0.683 ± 0.087	0.596 ± 0.060	0.683 ± 0.086	0.599 ± 0.056
ecoli- 0 - 1 - 4 - 6 - vs - 5	0.891 ± 0.088	$0.902 \stackrel{1}{\pm} 0.087$	0.899 ± 0.079	$0.900 \stackrel{1}{\pm} 0.075$	0.902 ± 0.076	$0.900 \stackrel{1}{\pm} 0.081$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.912 ± 0.144	$0.888 \stackrel{1}{\pm} 0.151$	$0.861 \stackrel{1}{\pm} 0.151$	0.861 ± 0.151	$0.861 \stackrel{1}{\pm} 0.151$	$0.860 \stackrel{1}{\pm} 0.151$
yeast-2-vs-4	0.591 ± 0.122	0.852 ± 0.098	0.855 ± 0.071	0.845 ± 0.083	0.856 ± 0.070	0.856 ± 0.068
$glass\hbox{-} 0\hbox{-} 6\hbox{-} vs\hbox{-} 5$	0.925 ± 0.149	$0.905 \stackrel{1}{\pm} 0.156$	0.840 ± 0.178	0.840 ± 0.178	0.840 ± 0.178	$0.840 \stackrel{1}{\pm} 0.178$
ecoli- 0 - 3 - 4 - 6 - vs - 5	0.827 ± 0.099	0.899 ± 0.104	0.892 ± 0.087	0.895 ± 0.089	0.892 ± 0.087	$0.892 \stackrel{-}{\pm} 0.092$
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.539 ± 0.030	$0.708 \stackrel{1}{\pm} 0.073$	0.654 ± 0.066	0.644 ± 0.056	$0.668 \stackrel{1}{\pm} 0.066$	$0.667 \stackrel{1}{\pm} 0.068$
$glass\hbox{-} 0\hbox{-} 1\hbox{-} 5\hbox{-} vs\hbox{-} 2$	0.511 ± 0.115	$0.609 \stackrel{all}{\pm} 0.155$	$0.705 \stackrel{1}{\pm} 0.115$	0.572 ± 0.080	0.703 ± 0.116	0.572 ± 0.087
ecoli-0-6-7-vs-5	0.838 ± 0.103	0.878 ± 0.096	0.869 ± 0.102	0.865 ± 0.104	0.861 ± 0.101	$0.860 \stackrel{1}{\pm} 0.102$
ecoli- 0 - 2 - 3 - 4 - vs - 5	0.846 ± 0.094	0.902 ± 0.084	0.904 ± 0.078	0.902 ± 0.078	0.902 ± 0.077	0.897 ± 0.077
ecoli4	0.896 ± 0.065	0.933 ± 0.066	0.934 ± 0.081	0.941 ± 0.078	0.936 ± 0.081	$0.938 \stackrel{1}{\pm} 0.079$
yeast5	0.801 ± 0.029	$0.846 \stackrel{1}{\pm} 0.023$	0.972 ± 0.024	0.965 ± 0.036	0.972 ± 0.024	0.964 ± 0.040
ecoli- 0 - 4 - 6 - vs - 5	0.888 ± 0.102	$0.901 \stackrel{1}{\pm} 0.096$	0.901 ± 0.082	0.901 ± 0.085	0.902 ± 0.082	0.901 ± 0.084
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.871 ± 0.065	$0.876 \stackrel{1}{\pm} 0.067$	0.654 ± 0.091	0.889 ± 0.070	0.654 ± 0.091	$0.889 \stackrel{1}{\pm} 0.071$
ecoli-0-1- vs -5	0.853 ± 0.126	0.905 ± 0.082	0.900 ± 0.075	0.907 ± 0.075	0.903 ± 0.072	0.907 ± 0.074
ecoli - 0 - 2 - 6 - 7 - vs - 3 - 5	0.640 ± 0.156	$0.722 \stackrel{1}{\pm} 0.130$	0.837 ± 0.106	0.829 ± 0.099	$0.829 \stackrel{1}{\pm} 0.106$	$0.824 \stackrel{1}{\pm} 0.099$
ecoli - 0 - 1 - 4 - 7 - vs - 2 - 3 - 5 - 6	0.668 ± 0.121	$0.783 \stackrel{1}{\pm} 0.140$	0.828 ± 0.101	0.834 ± 0.091	0.856 ± 0.091	0.872 ± 0.080
shuttle-c0-vs-c4	0.989 ± 0.013	$0.989 \stackrel{1}{\pm} 0.013$	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009
ecoli-0-6-7- vs -3-5	0.633 ± 0.171	0.746 ± 0.132	0.831 ± 0.105	0.832 ± 0.095	0.829 ± 0.110	0.833 ± 0.098
vowel0	0.903 ± 0.024	$0.926 \stackrel{1}{\pm} 0.028$	0.875 ± 0.062	0.879 ± 0.054	$0.915 \stackrel{1,2}{\pm} 0.051$	0.891 ± 0.043
glass4	0.772 ± 0.145	0.805 ± 0.145	0.758 ± 0.151	0.699 ± 0.159	0.772 ± 0.141	0.730 ± 0.159
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	$0.500 \stackrel{4}{\pm} 0.022$	0.737 ± 0.127	0.797 ± 0.052	0.739 ± 0.088	0.804 ± 0.052	$0.765 \stackrel{4}{\pm} 0.087$
$yeast\hbox{-} 0\hbox{-} 2\hbox{-} 5\hbox{-} 6\hbox{-} vs\hbox{-} 3\hbox{-} 7\hbox{-} 8\hbox{-} 9$	0.776 ± 0.049	$0.777 \stackrel{1}{\pm} 0.045$	0.720 ± 0.054	0.654 ± 0.058	0.751 ± 0.057	$0.700 \stackrel{1}{\pm} 0.068$
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.627 ± 0.170	0.849 ± 0.119	0.853 ± 0.096	0.859 ± 0.082	0.853 ± 0.096	0.867 ± 0.079
ecoli-0-3-4-vs-5	0.854 ± 0.110	0.899 ± 0.107	0.908 ± 0.103	0.909 ± 0.102	$0.903 \stackrel{1}{\pm} 0.103$	0.904 ± 0.100
glass5	0.895 ± 0.155	0.885 ± 0.156	0.893 ± 0.165	0.891 ± 0.165	0.898 ± 0.156	0.895 ± 0.156
yeast4	0.525 ± 0.025	0.595 ± 0.046	$0.805 \stackrel{2.4}{\pm} 0.068$	0.676 ± 0.071	0.809 ± 0.069	0.652 ± 0.087
$glass\hbox{-} 0\hbox{-} 4\hbox{-} vs\hbox{-} 5$	0.930 ± 0.119	$0.915 \stackrel{1}{\pm} 0.125$	0.915 ± 0.146	0.919 ± 0.144	$0.910 \stackrel{all}{\pm} 0.147$	$0.919 \stackrel{1,2}{\pm} 0.144$
yeast6	0.638 ± 0.023	0.774 ± 0.031	0.888 ± 0.056	0.843 ± 0.040	0.887 ± 0.056	0.834 ± 0.054
page-blocks-1-3-vs-4	0.774 ± 0.102	0.818 ± 0.126	0.758 ± 0.106	0.739 ± 0.088	0.796 ± 0.108	0.754 ± 0.090
yeast-1- vs -7	0.594 ± 0.042	0.702 ± 0.101	0.664 ± 0.093	0.671 ± 0.087	0.656 ± 0.098	0.674 ± 0.094
ecoli- 0 - 1 - 3 - 7 - vs - 2 - 6	0.845 ± 0.200	0.846 ± 0.199	0.842 ± 0.203	0.837 ± 0.199	0.839 ± 0.204	$0.833 \stackrel{1}{\pm} 0.200$
$yeast \hbox{-} 1 \hbox{-} 4 \hbox{-} 5 \hbox{-} 8 \hbox{-} vs \hbox{-} 7$	0.546 ± 0.014	0.582 ± 0.055	0.630 ± 0.098	0.586 ± 0.064	0.630 ± 0.098	0.583 ± 0.066
ecoli- 0 - 1 - 4 - 7 - vs - 5 - 6	0.842 ± 0.128	0.878 ± 0.114	0.865 ± 0.110	0.870 ± 0.086	0.870 ± 0.104	$0.886 \stackrel{1}{\pm} 0.083$
yeast-2-vs-8	0.694 ± 0.078	0.784 ± 0.111	$0.776 \stackrel{1}{\pm} 0.111$	0.780 ± 0.109	$0.776 \stackrel{1}{\pm} 0.111$	$0.775 \stackrel{1}{\pm} 0.112$
$yeast \hbox{-} 0\hbox{-} 2\hbox{-} 5\hbox{-} 7\hbox{-} 9\hbox{-} vs\hbox{-} 3\hbox{-} 6\hbox{-} 8$	0.542 ± 0.025	0.829 ± 0.097	$0.901 \stackrel{1}{\pm} 0.034$	0.877 ± 0.054	$0.902 \stackrel{1}{\pm} 0.034$	$0.891 \stackrel{1}{\pm} 0.052$
glass2	0.618 ± 0.101	0.648 ± 0.128 1	$\begin{array}{c} 1,2,4\\ 0.740 \pm 0.109\\ 1,2,4,6 \end{array}$	$\begin{array}{c c} 1,2\\ 0.663 \pm 0.079\\ 1 \end{array}$	$0.739 \pm 0.109 \\ 1,2,4,6$	0.664 ± 0.081

Table 9: Results for AUC metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)								
Mean rank	2.037	3.695	4.000	3.451	4.171	3.646			
	_	1	1	1	1,4	1			

Table 10: Results for mean ranks according to AUC metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass-0-1-6-vs-2	0.515 ± 0.130	0.568 ± 0.183	0.703 ± 0.121	0.529 ± 0.098	0.705 ± 0.122	0.523 ± 0.101
ecoli-0-3-4-7-vs-5-6	$0.828 \stackrel{-}{\pm} 0.090$	0.890 ± 0.083	0.876 ± 0.086	0.878 ± 0.096	0.876 ± 0.086	$0.884 \stackrel{-}{\pm} 0.087$
shuttle- $c2$ - vs - $c4$	0.999 ± 0.005	$0.999 \stackrel{1}{\pm} 0.005$	$0.788 \stackrel{1}{\pm} 0.398$	$0.785 \stackrel{1}{\pm} 0.396$	$0.788 \stackrel{1}{\pm} 0.398$	$0.787 \stackrel{1}{\pm} 0.397$
$glass\hbox{-}0\hbox{-}1\hbox{-}4\hbox{-}6\hbox{-}vs\hbox{-}2$	0.526 ± 0.144	0.579 ± 0.190	0.719 ± 0.109	0.579 ± 0.089	$0.718 \stackrel{-}{\pm} 0.107$	$0.577 \stackrel{-}{\pm} 0.090$
yeast-1-2-8-9-vs-7	0.284 ± 0.042	0.493 ± 0.042	0.653 ± 0.116	0.506 ± 0.069	0.653 ± 0.116	0.502 ± 0.070
ecoli-0-1-4-6-vs-5	0.887 ± 0.092	0.896 ± 0.096	0.890 ± 0.090	0.891 ± 0.085	0.894 ± 0.087	$0.891 \stackrel{1}{\pm} 0.092$
$glass\hbox{-}0\hbox{-}1\hbox{-}6\hbox{-}vs\hbox{-}5$	0.874 ± 0.249	$0.846 \stackrel{1}{\pm} 0.251$	$0.814 \stackrel{1}{\pm} 0.249$	0.813 ± 0.249	$0.814 \stackrel{1}{\pm} 0.249$	$0.813 \stackrel{1}{\pm} 0.248$
yeast-2- vs -4	0.413 ± 0.215	0.840 ± 0.126	0.842 ± 0.084	0.833 ± 0.095	0.844 ± 0.084	$0.847 \stackrel{-}{\pm} 0.079$
glass-0-6-vs-5	0.880 ± 0.276	0.857 ± 0.278	$0.755 \stackrel{1}{\pm} 0.332$	0.754 ± 0.332	0.755 ± 0.332	$0.754 \stackrel{1}{\pm} 0.332$
ecoli-0-3-4-6- vs -5	0.820 ± 0.102	0.894 ± 0.111	0.885 ± 0.097	0.887 ± 0.099	$0.884 \stackrel{-}{\pm} 0.096$	0.884 ± 0.102
yeast - 0 - 3 - 5 - 9 - vs - 7 - 8	0.310 ± 0.063	0.694 ± 0.089	0.562 ± 0.132	0.543 ± 0.126	0.593 ± 0.126	0.592 ± 0.130
$glass\hbox{-}0\hbox{-}1\hbox{-}5\hbox{-}vs\hbox{-}2$	0.453 ± 0.116	0.576 ± 0.201	$0.685 \stackrel{1}{\pm} 0.145$	$0.465 \stackrel{1}{\pm} 0.087$	0.683 ± 0.145	0.461 ± 0.093
ecoli-0-6-7-vs-5	0.831 ± 0.107	0.871 ± 0.104	0.853 ± 0.124	0.851 ± 0.125	0.845 ± 0.123	0.846 ± 0.123
ecoli- 0 - 2 - 3 - 4 - vs - 5	0.842 ± 0.095	0.897 ± 0.090	0.897 ± 0.086	0.895 ± 0.087	0.894 ± 0.085	$0.890 \stackrel{5}{\pm} 0.085$
ecoli4	0.893 ± 0.065	0.931 ± 0.068	0.928 ± 0.091	0.936 ± 0.088	0.930 ± 0.090	0.933 ± 0.089
yeast5	0.776 ± 0.037	0.832 ± 0.026	$0.971 \stackrel{1}{\pm} 0.024$	0.965 ± 0.036	0.971 ± 0.024	0.964 ± 0.040
ecoli- 0 - 4 - 6 - vs - 5	0.883 ± 0.107	$0.895 \stackrel{1}{\pm} 0.103$	0.895 ± 0.090	0.895 ± 0.092	0.895 ± 0.090	0.895 ± 0.091
$led 7 digit \hbox{-} 0 \hbox{-} 2 \hbox{-} 4 \hbox{-} 5 \hbox{-} 6 \hbox{-} 7 \hbox{-} 8 \hbox{-} 9 \hbox{-} vs \hbox{-} 1$	0.868 ± 0.067	$0.871 \stackrel{1}{\pm} 0.071$	0.548 ± 0.179	0.883 ± 0.083	0.548 ± 0.178	0.884 ± 0.084
ecoli- 0 - 1 - vs - 5	0.822 ± 0.186	0.896 ± 0.094	0.891 ± 0.086	0.899 ± 0.084	0.894 ± 0.082	0.899 ± 0.084
ecoli - 0 - 2 - 6 - 7 - vs - 3 - 5	0.436 ± 0.331	0.633 ± 0.241	0.816 ± 0.132	0.812 ± 0.121	0.807 ± 0.132	0.807 ± 0.122
ecoli - 0 - 1 - 4 - 7 - vs - 2 - 3 - 5 - 6	0.539 ± 0.226	0.725 ± 0.211	0.801 ± 0.128	0.811 ± 0.116	0.837 ± 0.115	0.859 ± 0.099
shuttle-c0-vs-c4	0.989 ± 0.013	0.989 ± 0.013	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009	0.994 ± 0.009
ecoli-0-6-7- vs -3-5	0.383 ± 0.366	0.675 ± 0.217	0.809 ± 0.129	0.816 ± 0.112	0.805 ± 0.136	0.816 ± 0.117
vowel0	0.902 ± 0.024	0.925 ± 0.028	0.864 ± 0.072	0.871 ± 0.061	0.911 ± 0.055	$0.888 \stackrel{1,2}{\pm} 0.046$
glass4	0.725 ± 0.231	0.762 ± 0.219	0.678 ± 0.281	0.621 ± 0.271	0.710 ± 0.246	0.664 ± 0.263
yeast - 0 - 5 - 6 - 7 - 9 - vs - 4	0.140 ± 0.059	0.685 ± 0.214	0.790 ± 0.057	0.711 ± 0.123	0.799 ± 0.054	0.750 ± 0.116
yeast - 0 - 2 - 5 - 6 - vs - 3 - 7 - 8 - 9	0.752 ± 0.064	0.753 ± 0.057	0.667 ± 0.079	0.555 ± 0.100	0.712 ± 0.078	0.632 ± 0.107
ecoli- 0 - 1 - vs - 2 - 3 - 5	0.348 ± 0.370	0.822 ± 0.155	0.833 ± 0.122	0.843 ± 0.097	0.833 ± 0.122	$0.853 \stackrel{4}{\pm} 0.091$
ecoli-0-3-4-vs-5	0.846 ± 0.119	0.890 ± 0.127	0.897 ± 0.125	0.899 ± 0.122	0.892 ± 0.124	0.893 ± 0.121
glass5	0.846 ± 0.275 3,4,6	0.835 ± 0.275 $3,4$	0.834 ± 0.302	0.832 ± 0.301	0.848 ± 0.278 $1,2,4,6$	0.845 ± 0.277 2.3
yeast4	0.274 ± 0.045	0.480 ± 0.058	0.794 ± 0.082	0.619 ± 0.096	0.799 ± 0.083	0.562 ± 0.132
$glass\hbox{-} 0\hbox{-} 4\hbox{-} vs\hbox{-} 5$	0.910 ± 0.176	0.893 ± 0.181	0.876 ± 0.251	0.881 ± 0.250	$0.870 \stackrel{all}{\pm} 0.252$	$0.881\overset{1,2}{\pm}0.250$
yeast6	0.528 ± 0.048	0.750 ± 0.043	0.884 ± 0.062	0.837 ± 0.042	0.883 ± 0.062	0.827 ± 0.058
page-blocks-1-3-vs-4	0.741 ± 0.138	0.791 ± 0.163	0.712 ± 0.145	0.689 ± 0.127	0.763 ± 0.146	0.711 ± 0.126
yeast-1- vs -7	0.453 ± 0.059	0.681 ± 0.130	0.637 ± 0.114	0.642 ± 0.102	0.631 ± 0.121	0.652 ± 0.101
ecoli- 0 - 1 - 3 - 7 - vs - 2 - 6	0.738 ± 0.385	0.738 ± 0.386 $4,6$	0.737 ± 0.385 $4,6$	0.731 ± 0.381	0.736 ± 0.384 $4,6$	$0.729 \stackrel{1}{\pm} 0.379$
yeast-1-4-5-8- vs -7	0.301 ± 0.049	0.473 ± 0.051	0.603 ± 0.142 $1,2,4,6$	0.484 ± 0.096 $1,6$	0.602 ± 0.142 $1,2,4,6$	0.478 ± 0.096
ecoli - 0 - 1 - 4 - 7 - vs - 5 - 6	0.812 ± 0.171	0.860 ± 0.149	0.839 ± 0.171	0.857 ± 0.102	0.845 ± 0.166	0.876 ± 0.095
yeast-2- vs -8	0.636 ± 0.094	0.736 ± 0.176	0.728 ± 0.153	0.738 ± 0.145	0.728 ± 0.153	0.729 ± 0.152
yeast - 0 - 2 - 5 - 7 - 9 - vs - 3 - 6 - 8	0.301 ± 0.068	0.810 ± 0.134	0.897 ± 0.037 $1,2,4$	0.870 ± 0.060 $1,2$	0.899 ± 0.037 $1,2,4,6$	0.888 ± 0.058 $_{1,2,4}$
glass2	0.570 ± 0.110	$0.627 \pm 0.145 \\ 1,4,6$	0.732 ± 0.113 $1,2,4,6$	$\begin{array}{c c} 0.606 & \pm & 0.077 \\ & & & & & & & & & & & & \\ & & & & &$	$0.731 \pm 0.113 \\ 1,2,4,6$	0.607 ± 0.079

Table 11: Results for GMEAN metric

	OSB (1) OKNORAU (2) TBAC (3) TBAW (4) OTBAC (5) OTBAW (6)							
Mean rank	2.061	3.963	3.866	3.476	4.110	3.524		
	_	1	1	1	1	1		

Table 12: Results for mean ranks according to GMEAN metric