Table 1: Results for BAC metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.847 ± 0.132 [4,5,6]	0.847 ± 0.132 [4,5,6]	0.819 ± 0.166 [−]	0.751 ± 0.164 [−]	0.798 ± 0.167 [−]	0.745 ± 0.172 [−]
ecoli-0-2-3-4-vs-5	0.845 ± 0.097 [−]	0.845 ± 0.097 [−]	0.883 ± 0.093 [1,2]	0.875 ± 0.076 [−]	0.896 ± 0.089 [1,2]	0.877 ± 0.085 [1,2]
glass-0-1-6-vs-2	0.557 ± 0.104 [−]	0.557 ± 0.104 [−]	0.672 ± 0.136 [1,2]	0.550 ± 0.106 [−]	0.677 ± 0.143 [1,2]	0.602 ± 0.121 [1,2]
ecoli-0-1-vs-5	0.866 ± 0.099 [−]	0.866 ± 0.099 [−]	0.877 ± 0.089 [1,2,4,6]	0.864 ± 0.084 [−]	0.892 ± 0.087 [1,2,4,6]	0.878 ± 0.090 [1,2,4]
yeast-1-4-5-8-vs-7	0.506 ± 0.027 [−]	0.506 ± 0.027 [−]	0.566 ± 0.075 [−]	0.505 ± 0.028 [−]	0.549 ± 0.072 [1,2,4]	0.500 ± 0.016 [1,2]
ecoli4	0.873 ± 0.105 [−]	0.873 ± 0.105 [−]	0.900 ± 0.094 [1,2,4,6]	0.874 ± 0.094 [−]	0.910 ± 0.100 [1,2,4,6]	0.885 ± 0.097 [−]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.881 ± 0.074 [−]	0.881 ± 0.074 [−]	0.640 ± 0.084 [1,2,4]	0.649 ± 0.079 [−]	0.643 ± 0.080 [1,2,4]	0.773 ± 0.140 [1,2]
glass5	0.847 ± 0.179 [3,4,5,6]	0.847 ± 0.179 [3,4,5,6]	0.880 ± 0.173 [−]	0.765 ± 0.210 [3]	0.926 ± 0.140 [−]	0.881 ± 0.173 [3,4,5]
ecoli-0-3-4-6-vs-5	0.834 ± 0.114 [4]	0.834 ± 0.114 [4]	0.889 ± 0.111 [−]	0.869 ± 0.114 [−]	0.893 ± 0.105 [1,2,3,4]	0.869 ± 0.109 [−]
yeast-0-5-6-7-9-vs-4	0.666 ± 0.090 [−]	0.665 ± 0.090 [−]	0.780 ± 0.055 [1,2]	0.671 ± 0.071 [−]	0.770 ± 0.066 [1,2,4]	0.661 ± 0.073 [1,2]
yeast6	0.711 ± 0.086 [−]	0.711 ± 0.086 [−]	0.794 ± 0.090 [1,2,4,6]	0.632 ± 0.070 [−]	0.794 ± 0.100 [1,2,4,6]	0.671 ± 0.086 [−]
ecoli-0-6-7-vs-5	0.865 ± 0.122 [4,6]	0.865 ± 0.122 [4,6]	0.871 ± 0.102 [1,2,4,6]	0.860 ± 0.097 [−]	0.868 ± 0.104 [1,2,4,6]	0.854 ± 0.101 [4]
glass-0-1-6-vs-5	0.903 ± 0.137 [−]	0.903 ± 0.137 [−]	0.852 ± 0.166 [−]	0.768 ± 0.195 [−]	0.900 ± 0.140 [−]	0.859 ± 0.166 [−]
ecoli-0-1-3-7-vs-2-6	0.718 ± 0.221 [4]	0.718 ± 0.221 [4]	0.844 ± 0.200 [4]	0.840 ± 0.200 [−]	0.843 ± 0.201 [3,4,6]	0.828 ± 0.203 [−]
yeast-0-2-5-6-vs-3-7-8-9	0.720 ± 0.049 [−]	0.720 ± 0.049 [−]	0.758 ± 0.055 [1,2]	0.676 ± 0.049 [−]	0.754 ± 0.057 [1,2,6]	0.669 ± 0.054 [1,2]
ecoli-0-1-4-7-vs-5-6	0.820 ± 0.087 [4,6]	0.820 ± 0.087 [4,6]	0.864 ± 0.105 [1,2,4,6]	0.837 ± 0.097 [−]	0.891 ± 0.081 [1,2,4,6]	0.825 ± 0.096 [−]
yeast5	0.810 ± 0.078 [−]	0.810 ± 0.078 [−]	0.900 ± 0.068 [1,2,4,6]	0.718 ± 0.075 [−]	0.913 ± 0.056 [1,2,4,6]	0.751 ± 0.068 [−]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,6]	1.000 ± 0.000 [4,6]	0.960 ± 0.126 [1,2,4,6]	0.960 ± 0.126 [−]	0.960 ± 0.126 [all]	0.960 ± 0.126 [4]
ecoli-0-1-4-7-vs-2-3-5-6	0.804 ± 0.095 [−]	0.809 ± 0.097 [−]	0.843 ± 0.091 [1,2,4]	0.812 ± 0.093 [−]	0.853 ± 0.078 [1,2,4,6]	0.809 ± 0.083 [−]
yeast-0-3-5-9-vs-7-8	0.596 ± 0.055 [−]	0.596 ± 0.055 [−]	0.647 ± 0.064 [1,2,4]	0.603 ± 0.039 [−]	0.647 ± 0.073 [1,2,4,6]	0.595 ± 0.050 [−]
yeast-1-vs-7	0.551 ± 0.048 [−]	0.551 ± 0.048 [−]	0.664 ± 0.095 [1,2,4,6]	0.609 ± 0.077 [−]	0.642 ± 0.102 [1,2,4,6]	0.581 ± 0.078 [−]
yeast-1-2-8-9-vs-7	0.566 ± 0.059 [−]	0.566 ± 0.059 [−]	0.639 ± 0.092 [1,2,4,6]	0.587 ± 0.082 [1,2,6]	0.618 ± 0.083 [1,2,4,6]	0.524 ± 0.042 [1,2]
ecoli-0-1-4-6-vs-5	0.828 ± 0.097 [6]	0.828 ± 0.097 [6]	0.877 ± 0.076 [1,2,4,6]	0.848 ± 0.088 [−]	0.883 ± 0.084 [1,2,6]	0.857 ± 0.073 [−]
glass-0-1-5-vs-2	0.567 ± 0.104 [−]	0.567 ± 0.104 [−]	0.651 ± 0.119 [1,2]	0.584 ± 0.105 [−]	0.689 ± 0.135 [1,2,4]	0.613 ± 0.123 [1,2]
yeast-2-vs-4	0.816 ± 0.074 [−]	0.816 ± 0.074 [−]	0.846 ± 0.064 [1,2,4]	0.815 ± 0.058 [−]	0.845 ± 0.065 [1,2,4,6]	0.814 ± 0.061 [−]
glass-0-6-vs-5	0.946 ± 0.137 [−]	0.946 ± 0.137 [−]	0.834 ± 0.187 [1,2,4,6]	0.809 ± 0.194 [−]	0.858 ± 0.174 [1,2,4,6]	0.853 ± 0.181 [−]
glass2	0.584 ± 0.094 [3,4]	0.584 ± 0.094 [3,4]	0.679 ± 0.130 [−]	0.589 ± 0.114 [−]	0.690 ± 0.134 [4]	0.615 ± 0.123 [4]
yeast-2-vs-8	0.708 ± 0.134 [−]	0.708 ± 0.134 [−]	0.776 ± 0.110 [1,2,4,6]	0.771 ± 0.108 [−]	0.776 ± 0.110 [1,2,4,6]	0.761 ± 0.103 [−]
vowel0	0.954 ± 0.032 [−]	0.954 ± 0.032 [−]	0.903 ± 0.051 [1,2]	0.884 ± 0.053 [1,2]	0.890 ± 0.051 [1,2]	0.869 ± 0.052 [1,2]
glass-0-4-vs-5	0.989 ± 0.021 [3,4,5,6]	0.989 ± 0.021 [3,4,5,6]	0.985 ± 0.077 [4,6]	0.985 ± 0.077 [−]	0.985 ± 0.077 [6]	0.985 ± 0.077 [−]
glass-0-1-4-6-vs-2	0.566 ± 0.119 [3,4,5,6]	0.569 ± 0.118 [3,4,5,6]	0.672 ± 0.121 [−]	0.584 ± 0.118 [−]	0.660 ± 0.115 [−]	0.599 ± 0.117 [−]
yeast4	0.599 ± 0.064 [−]	0.596 ± 0.064 [−]	0.726 ± 0.066 [1,2,4,6]	0.583 ± 0.049 [−]	0.720 ± 0.063 [1,2,4,6]	0.583 ± 0.045 [−]
ecoli-0-4-6-vs-5	0.834 ± 0.098 [−]	0.834 ± 0.098 [−]	0.879 ± 0.098 [1,2,4,6]	0.872 ± 0.097 [−]	0.887 ± 0.093 [1,2,4,6]	0.877 ± 0.090 [−]
page-blocks-1-3-vs-4	0.976 ± 0.054 [−]	0.976 ± 0.054 [−]	0.866 ± 0.103 [1,2]	0.852 ± 0.109 [1,2]	0.925 ± 0.083 [1,2]	0.927 ± 0.081 [1,2]
yeast-0-2-5-7-9-vs-3-6-8	0.857 ± 0.055 [3,4,5,6]	0.856 ± 0.055 [3,4,5,6]	0.897 ± 0.040 [−]	0.825 ± 0.052 [−]	0.898 ± 0.040 [3,4]	0.847 ± 0.060 [3,4]
ecoli-0-1-vs-2-3-5	0.818 ± 0.100 [4]	0.818 ± 0.100 [4]	0.846 ± 0.097 [1,2,4,6]	0.831 ± 0.094 [−]	0.845 ± 0.098 [1,2,4,6]	0.823 ± 0.108 [4]
ecoli-0-6-7-vs-3-5	0.795 ± 0.131 [−]	0.797 ± 0.126 [−]	0.833 ± 0.105 [1,2,4,6]	0.812 ± 0.102 [−]	0.829 ± 0.102 [1,2,6]	0.801 ± 0.093 [−]
ecoli-0-3-4-7-vs-5-6	0.855 ± 0.093 [−]	0.855 ± 0.093 [−]	0.875 ± 0.085 [6]	0.844 ± 0.096 [−]	0.881 ± 0.086 [−]	0.855 ± 0.087 [−]
ecoli-0-2-6-7-vs-3-5	0.804 ± 0.111 [−]	0.804 ± 0.111 [−]	0.838 ± 0.110 [−]	0.823 ± 0.108 [−]	0.839 ± 0.107 [−]	0.814 ± 0.102 [−]
shuttle-c0-vs-c4	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	0.998 ± 0.006 [1,2,6]	0.998 ± 0.006 [1,2]	0.998 ± 0.006 [−]	0.998 ± 0.006 [−]
ecoli-0-3-4-vs-5	0.857 ± 0.116 [−]	0.857 ± 0.116 [−]	0.888 ± 0.121 [1,2]	0.884 ± 0.129 [1,2]	0.894 ± 0.126 [1,2]	0.886 ± 0.123 [1,2]

Table 1: Results for BAC metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	2.902 [−]	3.000 [−]	4.732 [1,2,4,6]	2.561 [−]	5.000 [1,2,4,6]	2.805 [−]

Table 2: Results for mean ranks according to BAC metric

Table 3 columns header: Dataset | OSB (1) | OKNORAU (2) | TBAC (3) | TBAW (4) | OTBAC (5) | OTBAW (6)

The significance markers printed below each value are shown in brackets ([...]); "—" indicates none, "all" indicates all methods.

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.694 ± 0.228 [—]	0.694 ± 0.228 [—]	0.584 ± 0.254 [—]	0.526 ± 0.271 [—]	0.579 ± 0.286 [—]	0.525 ± 0.321 [—]
ecoli-0-2-3-4-vs-5	0.746 ± 0.151 [3,4,5,6]	0.746 ± 0.151 [3,4,5,6]	0.813 ± 0.140 [—]	0.813 ± 0.119 [—]	0.830 ± 0.143 [—]	0.813 ± 0.135 [—]
glass-0-1-6-vs-2	0.182 ± 0.237 [—]	0.182 ± 0.237 [—]	0.323 ± 0.170 [1,2]	0.161 ± 0.205 [—]	0.314 ± 0.178 [1,2]	0.245 ± 0.185 [1,2]
ecoli-0-1-vs-5	0.780 ± 0.142 [—]	0.780 ± 0.142 [—]	0.822 ± 0.124 [1,2,4,6]	0.807 ± 0.120 [—]	0.844 ± 0.118 [1,2,4,6]	0.837 ± 0.126 [4]
yeast-1-4-5-8-vs-7	0.031 ± 0.083 [—]	0.031 ± 0.083 [—]	0.147 ± 0.107 [1,2]	0.031 ± 0.083 [—]	0.126 ± 0.109 [1,2,4]	0.010 ± 0.048 [1,2]
ecoli4	0.767 ± 0.162 [—]	0.767 ± 0.162 [—]	0.847 ± 0.134 [1,2,4,6]	0.800 ± 0.141 [—]	0.851 ± 0.141 [1,2,4,6]	0.831 ± 0.137 [—]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.706 ± 0.100 [—]	0.708 ± 0.103 [—]	0.386 ± 0.189 [1,2,4]	0.415 ± 0.175 [—]	0.393 ± 0.185 [1,2,4]	0.594 ± 0.217 [1,2]
glass5	0.701 ± 0.326 [3,4,5,6]	0.701 ± 0.326 [3,4,5,6]	0.717 ± 0.306 [—]	0.531 ± 0.392 [3]	0.810 ± 0.252 [—]	0.743 ± 0.309 [3,4,5]
ecoli-0-3-4-6-vs-5	0.722 ± 0.187 [4]	0.722 ± 0.187 [4]	0.802 ± 0.169 [4]	0.778 ± 0.172 [—]	0.805 ± 0.167 [1,2,3,4]	0.781 ± 0.173 [4]
yeast-0-5-6-7-9-vs-4	0.420 ± 0.182 [—]	0.418 ± 0.182 [—]	0.565 ± 0.086 [1,2]	0.452 ± 0.144 [1,2]	0.547 ± 0.102 [1,2]	0.433 ± 0.147 [1,2]
yeast6	0.493 ± 0.161 [—]	0.493 ± 0.161 [—]	0.509 ± 0.130 [1,2,4,6]	0.366 ± 0.162 [—]	0.534 ± 0.142 [1,2,4,6]	0.449 ± 0.203 [—]
ecoli-0-6-7-vs-5	0.773 ± 0.195 [4]	0.773 ± 0.195 [4]	0.793 ± 0.159 [—]	0.791 ± 0.156 [—]	0.781 ± 0.167 [4,6]	0.775 ± 0.164 [4]
glass-0-1-6-vs-5	0.767 ± 0.239 [—]	0.767 ± 0.239 [—]	0.671 ± 0.288 [—]	0.537 ± 0.367 [—]	0.785 ± 0.241 [—]	0.713 ± 0.291 [—]
ecoli-0-1-3-7-vs-2-6	0.437 ± 0.426 [4]	0.437 ± 0.426 [4]	0.620 ± 0.355 [4]	0.638 ± 0.360 [—]	0.613 ± 0.361 [3,4,6]	0.677 ± 0.393 [4]
yeast-0-2-5-6-vs-3-7-8-9	0.542 ± 0.093 [—]	0.542 ± 0.093 [—]	0.618 ± 0.096 [1,2]	0.492 ± 0.104 [1,2]	0.609 ± 0.100 [1,2]	0.475 ± 0.118 [1,2]
ecoli-0-1-4-7-vs-5-6	0.716 ± 0.143 [4,6]	0.716 ± 0.143 [4,6]	0.784 ± 0.145 [1,2,4,6]	0.758 ± 0.155 [—]	0.823 ± 0.116 [1,2,4,6]	0.763 ± 0.142 [—]
yeast5	0.666 ± 0.114 [—]	0.666 ± 0.114 [—]	0.723 ± 0.103 [1,2]	0.548 ± 0.145 [—]	0.753 ± 0.089 [1,2,4,6]	0.603 ± 0.112 [—]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,6]	1.000 ± 0.000 [4,6]	0.927 ± 0.243 [1,2,4,6]	0.927 ± 0.243 [—]	0.927 ± 0.243 [all]	0.927 ± 0.243 [4]
ecoli-0-1-4-7-vs-2-3-5-6	0.667 ± 0.153 [—]	0.674 ± 0.152 [—]	0.761 ± 0.139 [—]	0.725 ± 0.165 [—]	0.783 ± 0.116 [—]	0.735 ± 0.140 [—]
yeast-0-3-5-9-vs-7-8	0.288 ± 0.127 [—]	0.288 ± 0.127 [—]	0.397 ± 0.135 [1,2]	0.324 ± 0.105 [1,2]	0.377 ± 0.139 [1,2,4,6]	0.302 ± 0.127 [1,2]
yeast-1-vs-7	0.169 ± 0.137 [—]	0.169 ± 0.137 [—]	0.318 ± 0.134 [1,2,4,6]	0.304 ± 0.174 [—]	0.287 ± 0.146 [1,2,4,6]	0.240 ± 0.192 [—]
yeast-1-2-8-9-vs-7	0.200 ± 0.167 [—]	0.200 ± 0.167 [—]	0.262 ± 0.149 [1,2,6]	0.247 ± 0.209 [1,2,6]	0.226 ± 0.130 [1,2]	0.081 ± 0.127 [1,2]
ecoli-0-1-4-6-vs-5	0.713 ± 0.153 [6]	0.713 ± 0.153 [6]	0.801 ± 0.119 [6]	0.772 ± 0.127 [6]	0.812 ± 0.123 [6]	0.797 ± 0.111 [—]
glass-0-1-5-vs-2	0.202 ± 0.231 [—]	0.202 ± 0.231 [—]	0.307 ± 0.153 [1,2]	0.227 ± 0.207 [1,2]	0.345 ± 0.160 [1,2,4]	0.271 ± 0.178 [1,2]
yeast-2-vs-4	0.699 ± 0.118 [—]	0.699 ± 0.118 [—]	0.763 ± 0.093 [1,2,4]	0.727 ± 0.085 [—]	0.765 ± 0.091 [1,2,4,6]	0.732 ± 0.094 [—]
glass-0-6-vs-5	0.867 ± 0.251 [—]	0.867 ± 0.251 [—]	0.699 ± 0.350 [1,2,4,6]	0.657 ± 0.370 [—]	0.765 ± 0.319 [1,2,4,6]	0.752 ± 0.336 [1,2]
glass2	0.230 ± 0.220 [3,4,5,6]	0.231 ± 0.221 [3,4,5,6]	0.346 ± 0.197 [—]	0.217 ± 0.226 [—]	0.344 ± 0.180 [4]	0.267 ± 0.194 [4]
yeast-2-vs-8	0.511 ± 0.281 [—]	0.511 ± 0.281 [—]	0.668 ± 0.193 [1,2,4,6]	0.656 ± 0.191 [—]	0.668 ± 0.193 [1,2,4,6]	0.646 ± 0.181 [—]
vowel0	0.911 ± 0.049 [—]	0.912 ± 0.049 [—]	0.865 ± 0.066 [1,2]	0.858 ± 0.072 [1,2]	0.850 ± 0.063 [1,2]	0.834 ± 0.069 [1,2]
glass-0-4-vs-5	0.927 ± 0.133 [3,4,5,6]	0.927 ± 0.133 [3,4,5,6]	0.973 ± 0.146 [—]	0.973 ± 0.146 [6]	0.973 ± 0.146 [—]	0.973 ± 0.146 [—]
glass-0-1-4-6-vs-2	0.189 ± 0.253 [—]	0.196 ± 0.253 [—]	0.330 ± 0.171 [1,2]	0.218 ± 0.219 [1,2]	0.298 ± 0.147 [1,2]	0.228 ± 0.195 [1,2]
yeast4	0.266 ± 0.151 [—]	0.259 ± 0.153 [—]	0.420 ± 0.103 [1,2,4,6]	0.249 ± 0.127 [—]	0.409 ± 0.103 [1,2,4,6]	0.255 ± 0.127 [—]
ecoli-0-4-6-vs-5	0.720 ± 0.160 [—]	0.720 ± 0.160 [—]	0.798 ± 0.153 [1,2,4,6]	0.790 ± 0.150 [—]	0.810 ± 0.146 [1,2,4,6]	0.800 ± 0.142 [—]
page-blocks-1-3-vs-4	0.943 ± 0.080 [—]	0.943 ± 0.080 [—]	0.808 ± 0.146 [1,2]	0.790 ± 0.162 [1,2]	0.907 ± 0.107 [1,2]	0.908 ± 0.104 [1,2]
yeast-0-2-5-7-9-vs-3-6-8	0.768 ± 0.082 [3,4,6]	0.767 ± 0.082 [3,4,6]	0.820 ± 0.059 [—]	0.747 ± 0.078 [—]	0.822 ± 0.061 [3,4]	0.765 ± 0.090 [3,4]
ecoli-0-1-vs-2-3-5	0.699 ± 0.177 [4]	0.699 ± 0.177 [4]	0.782 ± 0.150 [1,2,4,6]	0.757 ± 0.153 [—]	0.784 ± 0.156 [1,2,4,6]	0.745 ± 0.182 [4]
ecoli-0-6-7-vs-3-5	0.659 ± 0.244 [—]	0.665 ± 0.231 [—]	0.731 ± 0.163 [1,2]	0.714 ± 0.168 [1,2]	0.719 ± 0.168 [1,2,6]	0.695 ± 0.161 [—]
ecoli-0-3-4-7-vs-5-6	0.770 ± 0.137 [—]	0.770 ± 0.137 [—]	0.789 ± 0.121 [—]	0.759 ± 0.147 [—]	0.796 ± 0.136 [—]	0.789 ± 0.131 [—]
ecoli-0-2-6-7-vs-3-5	0.682 ± 0.195 [—]	0.682 ± 0.195 [—]	0.754 ± 0.185 [—]	0.732 ± 0.183 [—]	0.742 ± 0.178 [—]	0.720 ± 0.184 [—]
shuttle-c0-vs-c4	1.000 ± 0.000 [—]	1.000 ± 0.000 [—]	0.998 ± 0.006 [1,2,6]	0.998 ± 0.006 [1,2]	0.998 ± 0.006 [—]	0.998 ± 0.006 [—]
ecoli-0-3-4-vs-5	0.756 ± 0.193 [—]	0.756 ± 0.193 [—]	0.810 ± 0.184 [1,2]	0.802 ± 0.206 [1,2]	0.807 ± 0.208 [1,2]	0.804 ± 0.203 [1,2]

Table 3: Results for F1 metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	2.622 [—]	2.695 [—]	4.683 [1,2,4,6]	2.817 [—]	4.902 [1,2,4,6]	3.280 [—]

Table 4: Results for mean ranks according to F1 metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.734 ± 0.282	0.734 ± 0.282	0.578 ± 0.293	0.630 ± 0.350	0.588 ± 0.307	0.602 ± 0.374
ecoli-0-2-3-4-vs-5	0.832 ± 0.177 [3,5,6]	0.832 ± 0.177 [3,5,6]	0.875 ± 0.138	0.894 ± 0.133 [3]	0.879 ± 0.152	0.896 ± 0.150
glass-0-1-6-vs-2	0.271 ± 0.376	0.271 ± 0.376	0.255 ± 0.139	0.207 ± 0.300 [1,2]	0.233 ± 0.141	0.239 ± 0.211 [1,2]
ecoli-0-1-vs-5	0.875 ± 0.146	0.875 ± 0.146	0.933 ± 0.121	0.931 ± 0.123	0.940 ± 0.110	0.966 ± 0.094
yeast-1-4-5-8-vs-7	0.077 ± 0.226	0.077 ± 0.226	0.122 ± 0.110 [1,2]	0.077 ± 0.226 [1,2]	0.105 ± 0.094 [1,2]	0.020 ± 0.097 [1,2]
ecoli4	0.829 ± 0.187	0.829 ± 0.187	0.925 ± 0.121 [1,2,4,6]	0.887 ± 0.150	0.922 ± 0.124 [1,2,4,6]	0.937 ± 0.109
led7digit-0-2-4-5-6-7-8-9-vs-1	0.644 ± 0.113	0.647 ± 0.115	0.679 ± 0.285 [1,2]	0.759 ± 0.254	0.641 ± 0.274	0.741 ± 0.196 [1,2,4]
glass5	0.763 ± 0.357	0.763 ± 0.357	0.723 ± 0.332	0.573 ± 0.432 [1,2,3,5]	0.813 ± 0.278	0.773 ± 0.332 [1,2,5]
ecoli-0-3-4-6-vs-5	0.821 ± 0.195 [4]	0.821 ± 0.195 [4]	0.846 ± 0.155 [4]	0.847 ± 0.164	0.838 ± 0.163 [4]	0.847 ± 0.170 [4]
yeast-0-5-6-7-9-vs-4	0.537 ± 0.222	0.535 ± 0.222	0.534 ± 0.118	0.674 ± 0.173	0.520 ± 0.119	0.648 ± 0.181
yeast6	0.668 ± 0.248	0.668 ± 0.248	0.455 ± 0.128	0.654 ± 0.262 [1,2,3,5]	0.508 ± 0.155	0.719 ± 0.303 [1,2,3,5]
ecoli-0-6-7-vs-5	0.853 ± 0.191 [3,5]	0.853 ± 0.191 [3,5]	0.878 ± 0.151	0.905 ± 0.148 [3]	0.852 ± 0.170	0.873 ± 0.160 [1,2,3,5]
glass-0-1-6-vs-5	0.788 ± 0.279	0.788 ± 0.279	0.687 ± 0.325	0.570 ± 0.404 [1,2,5]	0.820 ± 0.268	0.767 ± 0.328
ecoli-0-1-3-7-vs-2-6	0.470 ± 0.462 [4]	0.470 ± 0.462 [4]	0.613 ± 0.383 [4]	0.640 ± 0.383	0.608 ± 0.394 [3,4]	0.730 ± 0.414 [4]
yeast-0-2-5-6-vs-3-7-8-9	0.670 ± 0.136	0.670 ± 0.136	0.745 ± 0.109	0.803 ± 0.116	0.738 ± 0.116	0.788 ± 0.137 [all]
ecoli-0-1-4-7-vs-5-6	0.832 ± 0.164	0.832 ± 0.164	0.898 ± 0.128 [1,2]	0.909 ± 0.132 [1,2,3,5]	0.887 ± 0.135 [1,2]	0.981 ± 0.056 [1,2,3,5]
yeast5	0.744 ± 0.138	0.744 ± 0.138	0.661 ± 0.120 [1,2]	0.788 ± 0.181 [1,2]	0.695 ± 0.115 [1,2]	0.787 ± 0.146 [all]
shuttle-c2-vs-c4	1.000 ± 0.000 [3,5]	1.000 ± 0.000 [3,5]	0.940 ± 0.237	0.940 ± 0.237 [3,5]	0.940 ± 0.237 [3]	0.940 ± 0.237 [1,2,3,5]
ecoli-0-1-4-7-vs-2-3-5-6	0.769 ± 0.147	0.773 ± 0.145	0.886 ± 0.117	0.881 ± 0.167	0.902 ± 0.128	0.952 ± 0.105
yeast-0-3-5-9-vs-7-8	0.456 ± 0.220	0.456 ± 0.220	0.552 ± 0.188 [1,2]	0.715 ± 0.233 [1,2]	0.470 ± 0.176 [1,2]	0.677 ± 0.256 [all]
yeast-1-vs-7	0.370 ± 0.366	0.370 ± 0.366	0.277 ± 0.129 [1,2,5]	0.525 ± 0.304 [1,2,3,5]	0.254 ± 0.139	0.503 ± 0.400 [1,2,3,5]
yeast-1-2-8-9-vs-7	0.449 ± 0.406	0.449 ± 0.406	0.241 ± 0.157	0.448 ± 0.376 [1,2,3,5]	0.214 ± 0.160	0.202 ± 0.344 [1,2,3,5]
ecoli-0-1-4-6-vs-5	0.827 ± 0.186 [3,5,6]	0.827 ± 0.186 [3,5,6]	0.874 ± 0.152	0.899 ± 0.149 [3,5,6]	0.881 ± 0.132	0.921 ± 0.122
glass-0-1-5-vs-2	0.298 ± 0.371	0.298 ± 0.371	0.252 ± 0.149	0.268 ± 0.286 [1,2]	0.263 ± 0.135	0.254 ± 0.177 [1,2]
yeast-2-vs-4	0.776 ± 0.117	0.776 ± 0.117	0.850 ± 0.099	0.859 ± 0.098	0.859 ± 0.092	0.879 ± 0.100
glass-0-6-vs-5	0.850 ± 0.269	0.850 ± 0.269	0.767 ± 0.375 [1,2]	0.733 ± 0.402 [1,2]	0.867 ± 0.326 [1,2]	0.847 ± 0.347 [1,2]
glass2	0.333 ± 0.360	0.336 ± 0.361	0.299 ± 0.196	0.241 ± 0.283	0.267 ± 0.150 [4]	0.255 ± 0.208
yeast-2-vs-8	0.745 ± 0.364	0.745 ± 0.364	0.918 ± 0.163	0.907 ± 0.183	0.918 ± 0.163	0.928 ± 0.152
vowel0	0.910 ± 0.069	0.911 ± 0.068	0.940 ± 0.068 [1,2]	0.983 ± 0.044	0.938 ± 0.063 [1,2]	0.968 ± 0.048 [1,2]
glass-0-4-vs-5	0.888 ± 0.197	0.888 ± 0.197	0.980 ± 0.139 [1,2]	0.980 ± 0.139 [1,2,3,5]	0.980 ± 0.139 [1,2]	0.980 ± 0.139 [1,2,3,5]
glass-0-1-4-6-vs-2	0.233 ± 0.332	0.242 ± 0.332	0.281 ± 0.181 [1,2]	0.279 ± 0.328 [1,2]	0.228 ± 0.116 [1,2]	0.215 ± 0.206 [1,2]
yeast4	0.418 ± 0.223	0.409 ± 0.229	0.388 ± 0.109 [5,6]	0.550 ± 0.278	0.372 ± 0.104	0.592 ± 0.316
ecoli-0-4-6-vs-5	0.797 ± 0.174	0.797 ± 0.174	0.865 ± 0.157	0.865 ± 0.154 [1,2,3,5]	0.867 ± 0.161	0.871 ± 0.161 [1,2,3,5]
page-blocks-1-3-vs-4	0.939 ± 0.084	0.939 ± 0.084	0.943 ± 0.102 [1,2]	0.949 ± 0.098 [1,2]	0.993 ± 0.046	0.988 ± 0.049 [1,2]
yeast-0-2-5-7-9-vs-3-6-8	0.821 ± 0.091	0.821 ± 0.091	0.835 ± 0.075	0.869 ± 0.073	0.836 ± 0.075 [1,2,3,4]	0.843 ± 0.080 [1,2,3]
ecoli-0-1-vs-2-3-5	0.776 ± 0.188	0.776 ± 0.188	0.937 ± 0.111	0.918 ± 0.136 [all]	0.934 ± 0.142 [1,2]	0.919 ± 0.160 [1,2]
ecoli-0-6-7-vs-3-5	0.791 ± 0.278	0.797 ± 0.262	0.840 ± 0.159 [1,2]	0.866 ± 0.160 [1,2]	0.819 ± 0.191 [1,2]	0.841 ± 0.185 [1,2]
ecoli-0-3-4-7-vs-5-6	0.866 ± 0.153	0.866 ± 0.153	0.839 ± 0.129	0.866 ± 0.146	0.832 ± 0.149	0.906 ± 0.135
ecoli-0-2-6-7-vs-3-5	0.819 ± 0.225	0.819 ± 0.225	0.874 ± 0.180	0.878 ± 0.187	0.830 ± 0.194	0.856 ± 0.202 [3,5]
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	0.813 ± 0.199	0.813 ± 0.199	0.883 ± 0.145	0.880 ± 0.185 [1,2]	0.856 ± 0.192	0.868 ± 0.182

Table 5: Results for Precision metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	2.744	2.817	3.439	4.232	3.293	4.476
	–	–	–	1,2,3,5	–	1,2,3,5

Table 6: Results for mean ranks according to Precision metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.713 ± 0.264 [4,6]	0.713 ± 0.264 [4,6]	0.677 ± 0.330 [4,6]	0.527 ± 0.327 [−]	0.623 ± 0.333 [4,6]	0.510 ± 0.340 [−]
ecoli-0-2-3-4-vs-5	0.710 ± 0.195 [−]	0.710 ± 0.195 [−]	0.780 ± 0.184 [1,2]	0.760 ± 0.149 [−]	0.805 ± 0.175 [1,2]	0.765 ± 0.168 [−]
glass-0-1-6-vs-2	0.150 ± 0.201 [−]	0.150 ± 0.201 [−]	0.483 ± 0.273 [1,2,4,6]	0.153 ± 0.211 [−]	0.512 ± 0.287 [1,2,4,6]	0.297 ± 0.250 [1,2,4]
ecoli-0-1-vs-5	0.745 ± 0.203 [−]	0.745 ± 0.203 [−]	0.760 ± 0.180 [−]	0.735 ± 0.168 [−]	0.790 ± 0.175 [4]	0.760 ± 0.180 [−]
yeast-1-4-5-8-vs-7	0.020 ± 0.054 [−]	0.020 ± 0.054 [−]	0.207 ± 0.147 [all]	0.020 ± 0.054 [−]	0.163 ± 0.139 [1,2,4,6]	0.007 ± 0.032 [−]
ecoli4	0.760 ± 0.211 [−]	0.760 ± 0.211 [−]	0.805 ± 0.189 [4]	0.755 ± 0.190 [−]	0.825 ± 0.201 [1,2,4,6]	0.775 ± 0.195 [−]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.806 ± 0.150 [3,4,5,6]	0.806 ± 0.150 [3,4,5,6]	0.292 ± 0.172 [−]	0.308 ± 0.160 [−]	0.300 ± 0.160 [−]	0.566 ± 0.289 [3,4,5]
glass5	0.700 ± 0.360 [4]	0.700 ± 0.360 [4]	0.770 ± 0.349 [4]	0.540 ± 0.422 [−]	0.860 ± 0.283 [1,2,4]	0.770 ± 0.349 [4]
ecoli-0-3-4-6-vs-5	0.690 ± 0.226 [−]	0.690 ± 0.226 [−]	0.795 ± 0.221 [1,2]	0.755 ± 0.226 [1,2]	0.805 ± 0.207 [1,2,4,6]	0.755 ± 0.215 [1,2]
yeast-0-5-6-7-9-vs-4	0.364 ± 0.183 [−]	0.362 ± 0.183 [−]	0.624 ± 0.114 [1,2,4,6]	0.362 ± 0.146 [−]	0.606 ± 0.141 [1,2,4,6]	0.342 ± 0.149 [−]
yeast6	0.429 ± 0.173 [4,6]	0.429 ± 0.173 [4,6]	0.606 ± 0.181 [1,2,4,6]	0.269 ± 0.141 [−]	0.603 ± 0.202 [1,2,4,6]	0.346 ± 0.174 [4]
ecoli-0-6-7-vs-5	0.745 ± 0.242 [−]	0.745 ± 0.242 [−]	0.755 ± 0.203 [−]	0.730 ± 0.192 [−]	0.750 ± 0.206 [−]	0.720 ± 0.197 [−]
glass-0-1-6-vs-5	0.820 ± 0.278 [4]	0.820 ± 0.278 [4]	0.720 ± 0.334 [4]	0.550 ± 0.390 [−]	0.810 ± 0.280 [4]	0.730 ± 0.334 [4]
ecoli-0-1-3-7-vs-2-6	0.440 ± 0.443 [−]	0.440 ± 0.443 [−]	0.700 ± 0.400 [1,2]	0.690 ± 0.398 [1,2]	0.700 ± 0.400 [1,2]	0.660 ± 0.405 [1,2]
yeast-0-2-5-6-vs-3-7-8-9	0.466 ± 0.098 [4,6]	0.466 ± 0.098 [4,6]	0.537 ± 0.111 [1,2,4,6]	0.362 ± 0.098 [−]	0.528 ± 0.115 [1,2,4,6]	0.347 ± 0.108 [−]
ecoli-0-1-4-7-vs-5-6	0.652 ± 0.173 [−]	0.652 ± 0.173 [−]	0.736 ± 0.213 [1,2,4,6]	0.680 ± 0.195 [−]	0.792 ± 0.164 [all]	0.652 ± 0.195 [−]
yeast5	0.627 ± 0.157 [4,6]	0.627 ± 0.157 [4,6]	0.812 ± 0.135 [1,2,4,6]	0.439 ± 0.150 [−]	0.838 ± 0.113 [1,2,4,6]	0.507 ± 0.138 [−]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,6]	1.000 ± 0.000 [4,6]	0.920 ± 0.252 [1,2,4,6]	0.920 ± 0.252 [−]	0.920 ± 0.252 [1,2,4,6]	0.920 ± 0.252 [4]
ecoli-0-1-4-7-vs-2-3-5-6	0.629 ± 0.194 [−]	0.639 ± 0.197 [−]	0.695 ± 0.184 [−]	0.633 ± 0.181 [−]	0.716 ± 0.159 [−]	0.621 ± 0.167 [−]
yeast-0-3-5-9-vs-7-8	0.224 ± 0.110 [−]	0.224 ± 0.110 [−]	0.324 ± 0.128 [1,2,4,6]	0.216 ± 0.078 [−]	0.338 ± 0.152 [1,2,4,6]	0.202 ± 0.098 [−]
yeast-1-vs-7	0.117 ± 0.095 [−]	0.117 ± 0.095 [−]	0.407 ± 0.194 [1,2,4,6]	0.233 ± 0.156 [−]	0.363 ± 0.207 [1,2,4,6]	0.173 ± 0.156 [−]
yeast-1-2-8-9-vs-7	0.137 ± 0.118 [−]	0.137 ± 0.118 [−]	0.313 ± 0.184 [1,2,4,6]	0.180 ± 0.162 [1,2,6]	0.270 ± 0.169 [1,2,4,6]	0.053 ± 0.084 [1,2]
ecoli-0-1-4-6-vs-5	0.670 ± 0.196 [6]	0.670 ± 0.196 [6]	0.765 ± 0.153 [1,2,4,6]	0.705 ± 0.178 [6]	0.775 ± 0.167 [1,2,4,6]	0.720 ± 0.146 [−]
glass-0-1-5-vs-2	0.172 ± 0.207 [−]	0.172 ± 0.207 [−]	0.455 ± 0.252 [1,2,4]	0.233 ± 0.226 [−]	0.548 ± 0.271 [1,2,4,6]	0.333 ± 0.252 [−]
yeast-2-vs-4	0.654 ± 0.150 [−]	0.654 ± 0.150 [−]	0.707 ± 0.131 [1,2,4]	0.644 ± 0.118 [−]	0.703 ± 0.131 [all]	0.639 ± 0.123 [1,2,4]
glass-0-6-vs-5	0.910 ± 0.258 [−]	0.910 ± 0.258 [−]	0.680 ± 0.370 [1,2,4,6]	0.630 ± 0.384 [−]	0.720 ± 0.348 [1,2,4,6]	0.710 ± 0.361 [−]
glass2	0.195 ± 0.192 [3,4,5,6]	0.195 ± 0.192 [3,4,5,6]	0.458 ± 0.258 [−]	0.228 ± 0.241 [−]	0.507 ± 0.254 [−]	0.312 ± 0.238 [−]
yeast-2-vs-8	0.420 ± 0.271 [−]	0.420 ± 0.271 [−]	0.555 ± 0.219 [1,2,4,6]	0.545 ± 0.216 [−]	0.555 ± 0.219 [1,2,4,6]	0.525 ± 0.207 [1,2,4]
vowel0	0.918 ± 0.065 [−]	0.918 ± 0.065 [−]	0.811 ± 0.104 [1,2]	0.769 ± 0.107 [1,2]	0.787 ± 0.105 [1,2]	0.741 ± 0.106 [1,2]
glass-0-4-vs-5	1.000 ± 0.000 [3,4,5,6]	1.000 ± 0.000 [3,4,5,6]	0.970 ± 0.155 [4,6]	0.970 ± 0.155 [−]	0.970 ± 0.155 [6]	0.970 ± 0.155 [−]
glass-0-1-4-6-vs-2	0.175 ± 0.234 [−]	0.180 ± 0.232 [−]	0.462 ± 0.251 [1,2,4,6]	0.218 ± 0.246 [−]	0.463 ± 0.235 [1,2,4,6]	0.277 ± 0.250 [−]
yeast4	0.208 ± 0.129 [−]	0.202 ± 0.130 [−]	0.480 ± 0.134 [1,2,4,6]	0.171 ± 0.098 [−]	0.470 ± 0.126 [1,2,4,6]	0.171 ± 0.091 [1,2]
ecoli-0-4-6-vs-5	0.690 ± 0.197 [−]	0.690 ± 0.197 [−]	0.775 ± 0.195 [1,2,4,6]	0.760 ± 0.193 [−]	0.790 ± 0.182 [1,2,4,6]	0.770 ± 0.179 [−]
page-blocks-1-3-vs-4	0.955 ± 0.108 [1,2]	0.955 ± 0.108 [1,2]	0.735 ± 0.206 [−]	0.706 ± 0.218 [1,2]	0.850 ± 0.165 [1,2]	0.854 ± 0.162 [1,2]
yeast-0-2-5-7-9-vs-3-6-8	0.732 ± 0.112 [3,4,5,6]	0.731 ± 0.111 [3,4,5,6]	0.812 ± 0.079 [4]	0.662 ± 0.104 [−]	0.813 ± 0.079 [3,4]	0.708 ± 0.120 [3,4]
ecoli-0-1-vs-2-3-5	0.655 ± 0.200 [4]	0.655 ± 0.200 [4]	0.698 ± 0.194 [1,2,4,6]	0.669 ± 0.187 [−]	0.695 ± 0.193 [1,2,4,6]	0.653 ± 0.214 [4]
ecoli-0-6-7-vs-3-5	0.605 ± 0.266 [−]	0.610 ± 0.257 [−]	0.682 ± 0.210 [−]	0.635 ± 0.202 [−]	0.677 ± 0.202 [6]	0.618 ± 0.185 [−]
ecoli-0-3-4-7-vs-5-6	0.724 ± 0.187 [−]	0.724 ± 0.187 [−]	0.768 ± 0.171 [4,6]	0.700 ± 0.192 [−]	0.780 ± 0.166 [6]	0.720 ± 0.174 [−]
ecoli-0-2-6-7-vs-3-5	0.626 ± 0.225 [−]	0.626 ± 0.225 [−]	0.688 ± 0.216 [4,6]	0.657 ± 0.214 [−]	0.694 ± 0.207 [1,2,4,6]	0.640 ± 0.198 [−]
shuttle-c0-vs-c4	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	0.996 ± 0.012 [1,2,6]	0.996 ± 0.012 [−]	0.996 ± 0.012 [6]	0.996 ± 0.012 [−]
ecoli-0-3-4-vs-5	0.735 ± 0.225 [−]	0.735 ± 0.225 [−]	0.790 ± 0.241 [1,2]	0.780 ± 0.258 [−]	0.805 ± 0.251 [1,2]	0.785 ± 0.245 [1,2]

Table 7: Results for Recall metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	3.061 [−]	3.061 [−]	4.720 [1,2,4,6]	2.512 [−]	5.037 [all]	2.610 [−]

Table 8: Results for mean ranks according to Recall metric

Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.847 ± 0.132 [4,5,6]	0.847 ± 0.132 [4,5,6]	0.819 ± 0.166 [–]	0.751 ± 0.164 [–]	0.798 ± 0.167 [–]	0.745 ± 0.172 [–]
ecoli-0-2-3-4-vs-5	0.845 ± 0.097 [–]	0.845 ± 0.097 [–]	0.883 ± 0.093 [1,2]	0.875 ± 0.076 [–]	0.896 ± 0.089 [1,2]	0.877 ± 0.085 [–]
glass-0-1-6-vs-2	0.557 ± 0.104 [–]	0.557 ± 0.104 [–]	0.672 ± 0.136 [1,2]	0.550 ± 0.106 [–]	0.677 ± 0.143 [1,2]	0.602 ± 0.121 [1,2]
ecoli-0-1-vs-5	0.866 ± 0.099 [–]	0.866 ± 0.099 [–]	0.877 ± 0.089 [1,2,4,6]	0.864 ± 0.084 [–]	0.892 ± 0.087 [1,2,4,6]	0.878 ± 0.090 [1,2,4]
yeast-1-4-5-8-vs-7	0.506 ± 0.027 [–]	0.506 ± 0.027 [–]	0.566 ± 0.075 [–]	0.505 ± 0.028 [–]	0.549 ± 0.072 [1,2,4]	0.500 ± 0.016 [1,2]
ecoli4	0.873 ± 0.105 [–]	0.873 ± 0.105 [–]	0.900 ± 0.094 [1,2,4,6]	0.874 ± 0.094 [–]	0.910 ± 0.100 [1,2,4,6]	0.885 ± 0.097 [–]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.881 ± 0.074 [–]	0.881 ± 0.074 [–]	0.640 ± 0.084 [1,2,4]	0.649 ± 0.079 [–]	0.643 ± 0.080 [1,2,4]	0.773 ± 0.140 [1,2]
glass5	0.847 ± 0.179 [3,4,5,6]	0.847 ± 0.179 [3,4,5,6]	0.880 ± 0.173 [–]	0.765 ± 0.210 [3]	0.926 ± 0.140 [–]	0.881 ± 0.173 [3,4,5]
ecoli-0-3-4-6-vs-5	0.834 ± 0.114 [4]	0.834 ± 0.114 [4]	0.889 ± 0.111 [4]	0.869 ± 0.114 [–]	0.893 ± 0.105 [1,2,3,4]	0.869 ± 0.109 [4]
yeast-0-5-6-7-9-vs-4	0.666 ± 0.090 [–]	0.665 ± 0.090 [–]	0.780 ± 0.055 [1,2]	0.671 ± 0.071 [1,2]	0.770 ± 0.066 [1,2,4]	0.661 ± 0.073 [1,2]
yeast6	0.711 ± 0.086 [–]	0.711 ± 0.086 [–]	0.794 ± 0.090 [1,2,4,6]	0.632 ± 0.070 [–]	0.794 ± 0.100 [1,2,4,6]	0.671 ± 0.086 [–]
ecoli-0-6-7-vs-5	0.865 ± 0.122 [4,6]	0.865 ± 0.122 [4,6]	0.871 ± 0.102 [1,2,4,6]	0.860 ± 0.097 [–]	0.868 ± 0.104 [1,2,4,6]	0.854 ± 0.101 [4]
glass-0-1-6-vs-5	0.903 ± 0.137 [–]	0.903 ± 0.137 [–]	0.852 ± 0.166 [–]	0.768 ± 0.195 [–]	0.900 ± 0.140 [–]	0.859 ± 0.166 [–]
ecoli-0-1-3-7-vs-2-6	0.718 ± 0.221 [4]	0.718 ± 0.221 [4]	0.844 ± 0.200 [4]	0.840 ± 0.200 [–]	0.843 ± 0.201 [3,4,6]	0.828 ± 0.203 [4]
yeast-0-2-5-6-vs-3-7-8-9	0.720 ± 0.049 [–]	0.720 ± 0.049 [–]	0.758 ± 0.055 [1,2]	0.676 ± 0.049 [1,2,6]	0.754 ± 0.057 [1,2,6]	0.669 ± 0.054 [1,2]
ecoli-0-1-4-7-vs-5-6	0.820 ± 0.087 [4,6]	0.820 ± 0.087 [4,6]	0.864 ± 0.105 [1,2,4,6]	0.837 ± 0.097 [–]	0.891 ± 0.081 [1,2,4,6]	0.825 ± 0.096 [–]
yeast5	0.810 ± 0.078 [–]	0.810 ± 0.078 [–]	0.900 ± 0.068 [1,2,4,6]	0.718 ± 0.075 [–]	0.913 ± 0.056 [1,2,4,6]	0.751 ± 0.068 [–]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,6]	1.000 ± 0.000 [4,6]	0.960 ± 0.126 [1,2,4,6]	0.960 ± 0.126 [–]	0.960 ± 0.126 [all]	0.960 ± 0.126 [4]
ecoli-0-1-4-7-vs-2-3-5-6	0.804 ± 0.095 [–]	0.809 ± 0.097 [–]	0.843 ± 0.091 [–]	0.812 ± 0.093 [–]	0.853 ± 0.078 [–]	0.809 ± 0.083 [–]
yeast-0-3-5-9-vs-7-8	0.596 ± 0.055 [–]	0.596 ± 0.055 [–]	0.647 ± 0.064 [1,2,4]	0.603 ± 0.039 [–]	0.647 ± 0.073 [1,2,4,6]	0.595 ± 0.050 [–]
yeast-1-vs-7	0.551 ± 0.048 [–]	0.551 ± 0.048 [–]	0.664 ± 0.095 [1,2,4,6]	0.609 ± 0.077 [–]	0.642 ± 0.102 [1,2,4,6]	0.581 ± 0.078 [–]
yeast-1-2-8-9-vs-7	0.566 ± 0.059 [–]	0.566 ± 0.059 [–]	0.639 ± 0.092 [1,2,4,6]	0.587 ± 0.082 [1,2,6]	0.618 ± 0.083 [1,2,4,6]	0.524 ± 0.042 [1,2]
ecoli-0-1-4-6-vs-5	0.828 ± 0.097 [6]	0.828 ± 0.097 [6]	0.877 ± 0.076 [1,2,4,6]	0.848 ± 0.088 [6]	0.883 ± 0.084 [1,2,6]	0.857 ± 0.073 [–]
glass-0-1-5-vs-2	0.567 ± 0.104 [–]	0.567 ± 0.104 [–]	0.651 ± 0.119 [1,2]	0.584 ± 0.105 [1,2]	0.689 ± 0.135 [1,2,4]	0.613 ± 0.123 [1,2]
yeast-2-vs-4	0.816 ± 0.074 [–]	0.816 ± 0.074 [–]	0.846 ± 0.064 [1,2,4]	0.815 ± 0.058 [–]	0.845 ± 0.065 [1,2,4,6]	0.814 ± 0.061 [–]
glass-0-6-vs-5	0.946 ± 0.137 [–]	0.946 ± 0.137 [–]	0.834 ± 0.187 [1,2,4,6]	0.809 ± 0.194 [–]	0.858 ± 0.174 [1,2,4,6]	0.853 ± 0.181 [–]
glass2	0.584 ± 0.094 [3,4]	0.584 ± 0.094 [3,4]	0.679 ± 0.130 [–]	0.589 ± 0.114 [–]	0.690 ± 0.134 [4]	0.615 ± 0.123 [4]
yeast-2-vs-8	0.708 ± 0.134 [–]	0.708 ± 0.134 [–]	0.776 ± 0.110 [1,2,4,6]	0.771 ± 0.108 [–]	0.776 ± 0.110 [1,2,4,6]	0.761 ± 0.103 [–]
vowel0	0.954 ± 0.032 [–]	0.954 ± 0.032 [–]	0.903 ± 0.051 [1,2]	0.884 ± 0.053 [1,2]	0.890 ± 0.051 [1,2]	0.869 ± 0.052 [1,2]
glass-0-4-vs-5	0.989 ± 0.021 [3,4,5,6]	0.989 ± 0.021 [3,4,5,6]	0.985 ± 0.077 [4,6]	0.985 ± 0.077 [–]	0.985 ± 0.077 [6]	0.985 ± 0.077 [–]
glass-0-1-4-6-vs-2	0.566 ± 0.119 [3,4,5,6]	0.569 ± 0.118 [3,4,5,6]	0.672 ± 0.121 [–]	0.584 ± 0.118 [–]	0.660 ± 0.115 [–]	0.599 ± 0.117 [–]
yeast4	0.599 ± 0.064 [–]	0.596 ± 0.064 [–]	0.726 ± 0.066 [1,2,4,6]	0.583 ± 0.049 [–]	0.720 ± 0.063 [1,2,4,6]	0.583 ± 0.045 [–]
ecoli-0-4-6-vs-5	0.834 ± 0.098 [–]	0.834 ± 0.098 [–]	0.879 ± 0.098 [1,2,4,6]	0.872 ± 0.097 [–]	0.887 ± 0.093 [1,2,4,6]	0.877 ± 0.090 [–]
page-blocks-1-3-vs-4	0.976 ± 0.054 [–]	0.976 ± 0.054 [–]	0.866 ± 0.103 [1,2]	0.852 ± 0.109 [1,2]	0.925 ± 0.083 [1,2]	0.927 ± 0.081 [1,2]
yeast-0-2-5-7-9-vs-3-6-8	0.857 ± 0.055 [3,4,5,6]	0.856 ± 0.055 [3,4,5,6]	0.897 ± 0.040 [–]	0.825 ± 0.052 [–]	0.898 ± 0.040 [3,4]	0.847 ± 0.060 [3,4]
ecoli-0-1-vs-2-3-5	0.818 ± 0.100 [4]	0.818 ± 0.100 [4]	0.846 ± 0.097 [1,2,4,6]	0.831 ± 0.094 [–]	0.845 ± 0.098 [1,2,4,6]	0.823 ± 0.108 [4]
ecoli-0-6-7-vs-3-5	0.795 ± 0.131 [–]	0.797 ± 0.126 [–]	0.833 ± 0.105 [1,2,6]	0.812 ± 0.102 [–]	0.829 ± 0.102 [1,2,6]	0.801 ± 0.093 [–]
ecoli-0-3-4-7-vs-5-6	0.855 ± 0.093 [–]	0.855 ± 0.093 [–]	0.875 ± 0.085 [6]	0.844 ± 0.096 [–]	0.881 ± 0.086 [6]	0.855 ± 0.087 [–]
ecoli-0-2-6-7-vs-3-5	0.804 ± 0.111 [–]	0.804 ± 0.111 [–]	0.838 ± 0.110 [–]	0.823 ± 0.108 [–]	0.839 ± 0.107 [–]	0.814 ± 0.102 [–]
shuttle-c0-vs-c4	1.000 ± 0.000 [–]	1.000 ± 0.000 [–]	0.998 ± 0.006 [1,2,6]	0.998 ± 0.006 [1,2]	0.998 ± 0.006 [–]	0.998 ± 0.006 [–]
ecoli-0-3-4-vs-5	0.857 ± 0.116 [–]	0.857 ± 0.116 [–]	0.888 ± 0.121 [1,2]	0.884 ± 0.129 [1,2]	0.894 ± 0.126 [1,2]	0.886 ± 0.123 [1,2]

Table 9: Results for AUC metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	2.902 [–]	3.000 [–]	4.732 [1,2,4,6]	2.561 [–]	5.000 [1,2,4,6]	2.805 [–]

Table 10: Results for mean ranks according to AUC metric

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Dataset	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
glass4	0.809 ± 0.210	0.809 ± 0.210	0.753 ± 0.289	0.644 ± 0.314	0.717 ± 0.303	0.620 ± 0.340
ecoli-0-2-3-4-vs-5	[3,4,5,6] 0.825 ± 0.123	[3,4,5,6] 0.825 ± 0.123	0.870 ± 0.111	0.863 ± 0.088	0.885 ± 0.106	0.864 ± 0.102
glass-0-1-6-vs-2	0.238 ± 0.298	0.238 ± 0.298	[1,2] 0.596 ± 0.242	[1,2] 0.242 ± 0.293	[1,2] 0.601 ± 0.260	[1,2] 0.428 ± 0.287
ecoli-0-1-vs-5	0.848 ± 0.123	0.848 ± 0.123	[1,2,4,6] 0.863 ± 0.104	0.849 ± 0.099	[1,2,4,6] 0.880 ± 0.101	[1,2,4] 0.864 ± 0.105
yeast-1-4-5-8-vs-7	0.049 ± 0.132	0.049 ± 0.132	0.375 ± 0.226	0.049 ± 0.132	[1,2,4] 0.316 ± 0.230	[1,2] 0.016 ± 0.079
ecoli4	0.856 ± 0.129	0.856 ± 0.129	[1,2,4,6] 0.888 ± 0.112	0.858 ± 0.114	[1,2,4,6] 0.898 ± 0.119	0.871 ± 0.116
led7digit-0-2-4-5-6-7-8-9-vs-1	0.874 ± 0.082	0.874 ± 0.083	[1,2,4] 0.499 ± 0.197	0.525 ± 0.169	[1,2,4] 0.513 ± 0.182	[1,2] 0.710 ± 0.218
glass5	[3,4,5,6] 0.764 ± 0.334	[3,4,5,6] 0.764 ± 0.334	0.811 ± 0.321	[3] 0.595 ± 0.424	0.889 ± 0.248	[3,4,5] 0.812 ± 0.322
ecoli-0-3-4-6-vs-5	[4] 0.809 ± 0.145	[4] 0.809 ± 0.145	[4] 0.874 ± 0.135	0.851 ± 0.138	[1,2,3,4] 0.880 ± 0.127	[4] 0.852 ± 0.133
yeast-0-5-6-7-9-vs-4	0.560 ± 0.195	0.558 ± 0.195	[1,2] 0.760 ± 0.068	[1,2] 0.581 ± 0.128	[1,2,4] 0.746 ± 0.089	[1,2] 0.564 ± 0.130
yeast6	0.633 ± 0.155	0.633 ± 0.155	[1,2,4,6] 0.761 ± 0.122	0.493 ± 0.156	[1,2,4,6] 0.758 ± 0.137	0.547 ± 0.213
ecoli-0-6-7-vs-5	[4,6] 0.843 ± 0.155	[4,6] 0.843 ± 0.155	[1,2,4,6] 0.854 ± 0.125	0.842 ± 0.120	[1,2,4,6] 0.850 ± 0.127	[4] 0.835 ± 0.124
glass-0-1-6-vs-5	0.871 ± 0.219	0.871 ± 0.219	0.788 ± 0.295	0.624 ± 0.390	0.867 ± 0.220	0.795 ± 0.296
ecoli-0-1-3-7-vs-2-6	[4] 0.480 ± 0.455	[4] 0.480 ± 0.455	[4] 0.737 ± 0.385	0.733 ± 0.384	[3,4,6] 0.736 ± 0.384	[4] 0.709 ± 0.395
yeast-0-2-5-6-vs-3-7-8-9	0.669 ± 0.074	0.669 ± 0.074	[1,2] 0.721 ± 0.076	[1,2] 0.593 ± 0.083	[1,2] 0.715 ± 0.079	[1,2] 0.579 ± 0.092
ecoli-0-1-4-7-vs-5-6	[4,6] 0.795 ± 0.110	[4,6] 0.795 ± 0.110	[1,2,4,6] 0.844 ± 0.130	0.812 ± 0.127	[1,2,4,6] 0.880 ± 0.093	0.797 ± 0.124
yeast5	0.783 ± 0.099	0.783 ± 0.099	[1,2,4,6] 0.892 ± 0.078	0.651 ± 0.117	[1,2,4,6] 0.908 ± 0.063	0.704 ± 0.095
shuttle-c2-vs-c4	[4,6] 1.000 ± 0.000	[4,6] 1.000 ± 0.000	[1,2,4,6] 0.928 ± 0.241	0.928 ± 0.241	[all] 0.928 ± 0.241	[4] 0.928 ± 0.241
ecoli-0-1-4-7-vs-2-3-5-6	0.773 ± 0.132	0.779 ± 0.132	0.821 ± 0.117	0.783 ± 0.122	0.836 ± 0.098	0.778 ± 0.116
yeast-0-3-5-9-vs-7-8	0.444 ± 0.138	0.444 ± 0.138	[1,2,4] 0.545 ± 0.131	0.450 ± 0.103	[1,2,4,6] 0.548 ± 0.146	0.431 ± 0.119
yeast-1-vs-7	0.269 ± 0.205	0.269 ± 0.205	[1,2,4,6] 0.589 ± 0.161	0.432 ± 0.205	[1,2,4,6] 0.539 ± 0.206	0.337 ± 0.240
yeast-1-2-8-9-vs-7	0.291 ± 0.226	0.291 ± 0.226	[1,2,4,6] 0.512 ± 0.201	[1,2,6] 0.336 ± 0.257	[1,2,4,6] 0.461 ± 0.217	[1,2] 0.126 ± 0.193
ecoli-0-1-4-6-vs-5	[6] 0.803 ± 0.124	[6] 0.803 ± 0.124	[all] 0.865 ± 0.089	[6] 0.829 ± 0.105	[1,2,4,6] 0.871 ± 0.097	0.842 ± 0.087
glass-0-1-5-vs-2	0.272 ± 0.301	0.272 ± 0.301	[1,2] 0.573 ± 0.226	[1,2] 0.352 ± 0.298	[1,2,4] 0.642 ± 0.200	[1,2] 0.473 ± 0.265
yeast-2-vs-4	0.793 ± 0.098	0.793 ± 0.098	[1,2,4,6] 0.831 ± 0.078	0.794 ± 0.072	[all] 0.829 ± 0.077	[1,2] 0.791 ± 0.077
glass-0-6-vs-5	0.916 ± 0.241	0.916 ± 0.241	[1,2,4,6] 0.742 ± 0.349	0.697 ± 0.372	[1,2,4,6] 0.785 ± 0.318	0.771 ± 0.336
glass2	[3,4,5,6] 0.321 ± 0.291	[3,4,5,6] 0.321 ± 0.291	0.594 ± 0.242	0.339 ± 0.313	[4] 0.621 ± 0.241	[4] 0.461 ± 0.272
yeast-2-vs-8	0.578 ± 0.290	0.578 ± 0.290	[1,2,4,6] 0.728 ± 0.153	0.722 ± 0.150	[1,2,4,6] 0.728 ± 0.153	0.709 ± 0.146
vowel0	0.953 ± 0.034	0.953 ± 0.034	[1,2] 0.896 ± 0.058	[1,2] 0.874 ± 0.062	[1,2] 0.882 ± 0.058	[1,2] 0.857 ± 0.062
glass-0-4-vs-5	[3,4,5,6] 0.988 ± 0.022	[3,4,5,6] 0.988 ± 0.022	[4,6] 0.974 ± 0.145	0.974 ± 0.145	[6] 0.974 ± 0.145	0.974 ± 0.145
glass-0-1-4-6-vs-2	[3,4,5,6] 0.260 ± 0.316	[3,4,5,6] 0.270 ± 0.316	0.586 ± 0.245	0.325 ± 0.313	0.590 ± 0.214	0.392 ± 0.309
yeast4	0.421 ± 0.170	0.410 ± 0.178	[1,2,4,6] 0.676 ± 0.095	0.381 ± 0.157	[1,2,4,6] 0.669 ± 0.095	0.380 ± 0.159
ecoli-0-4-6-vs-5	0.811 ± 0.127	0.811 ± 0.127	[1,2,4,6] 0.865 ± 0.120	0.857 ± 0.119	[1,2,4,6] 0.875 ± 0.110	0.864 ± 0.108
page-blocks-1-3-vs-4	0.973 ± 0.060	0.973 ± 0.060	[1,2] 0.847 ± 0.123	[1,2] 0.828 ± 0.135	[1,2] 0.917 ± 0.093	[1,2] 0.919 ± 0.090
yeast-0-2-5-7-9-vs-3-6-8	[3,4,5,6] 0.845 ± 0.067	[3,4,5,6] 0.844 ± 0.066	0.892 ± 0.044	0.807 ± 0.064	[3,4] 0.893 ± 0.044	[3,4] 0.832 ± 0.072
ecoli-0-1-vs-2-3-5	[4] 0.786 ± 0.158	[4] 0.786 ± 0.158	[1,2,4,6] 0.824 ± 0.124	0.806 ± 0.121	[1,2,4,6] 0.823 ± 0.122	[4] 0.793 ± 0.141
ecoli-0-6-7-vs-3-5	0.730 ± 0.249	0.739 ± 0.230	[1,2] 0.808 ± 0.133	0.781 ± 0.132	[1,2,6] 0.805 ± 0.127	0.771 ± 0.123
ecoli-0-3-4-7-vs-5-6	0.837 ± 0.113	0.837 ± 0.113	[6] 0.863 ± 0.099	0.823 ± 0.119	0.870 ± 0.099	0.838 ± 0.104
ecoli-0-2-6-7-vs-3-5	0.764 ± 0.175	0.764 ± 0.175	0.813 ± 0.141	0.794 ± 0.140	[1,2] 0.816 ± 0.133	0.784 ± 0.134
shuttle-c0-vs-c4	1.000 ± 0.000	1.000 ± 0.000	[1,2,6] 0.998 ± 0.006	[1,2] 0.998 ± 0.006	0.998 ± 0.006	0.998 ± 0.006
ecoli-0-3-4-vs-5	0.837 ± 0.145	0.837 ± 0.145	[1,2] 0.870 ± 0.151	[1,2] 0.857 ± 0.188	[1,2] 0.870 ± 0.186	[1,2] 0.861 ± 0.183

Table 11: Results for GMEAN metric

	OSB (1)	OKNORAU (2)	TBAC (3)	TBAW (4)	OTBAC (5)	OTBAW (6)
Mean rank	2.780	2.878	4.707	2.768	5.024	2.841
	–	–	[1,2,4,6]	–	[1,2,4,6]	–

Table 12: Results for mean ranks according to GMEAN metric