Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.846 ± 0.136 [4,5]	0.857 ± 0.117 [4,5]	0.857 ± 0.117 [4,5]	0.791 ± 0.151 [−]	0.788 ± 0.144 [−]	0.816 ± 0.129 [−]	0.892 ± 0.102 [4,5,6]
ecoli-0-2-3-4-vs-5	0.850 ± 0.087 [−]	0.865 ± 0.099 [1]	0.867 ± 0.097 [1]	0.902 ± 0.087 [1,2,6,7]	0.908 ± 0.081 [1,2,3,6,7]	0.881 ± 0.088 [−]	0.885 ± 0.079 [1]
glass-0-1-6-vs-2	0.582 ± 0.128 [−]	0.553 ± 0.104 [−]	0.552 ± 0.105 [−]	0.707 ± 0.131 [1,2,3,6]	0.727 ± 0.122 [1,2,3,6]	0.648 ± 0.129 [1,2,3]	0.732 ± 0.095 [1,2,3,6]
ecoli-0-1-vs-5	0.814 ± 0.099 [−]	0.845 ± 0.105 [1]	0.848 ± 0.107 [1]	0.892 ± 0.080 [1,2,3]	0.902 ± 0.077 [1,2,3]	0.897 ± 0.079 [1,2,3]	0.897 ± 0.071 [1,2,3]
yeast-1-4-5-8-vs-7	0.546 ± 0.078 [2,3]	0.507 ± 0.025 [−]	0.507 ± 0.025 [−]	0.601 ± 0.089 [1,2,3]	0.617 ± 0.085 [1,2,3]	0.633 ± 0.090 [1,2,3]	0.627 ± 0.111 [1,2,3]
ecoli4	0.868 ± 0.091 [−]	0.871 ± 0.107 [−]	0.871 ± 0.107 [−]	0.920 ± 0.085 [1,2,3]	0.921 ± 0.096 [1,2,3,4]	0.916 ± 0.068 [1,2,3,4]	0.918 ± 0.071 [1,2,3]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.881 ± 0.072 [4,5,7]	0.878 ± 0.073 [4,5,7]	0.879 ± 0.072 [4,5,6,7]	0.649 ± 0.088 [−]	0.648 ± 0.089 [−]	0.866 ± 0.072 [4,5,7]	0.862 ± 0.071 [4,5]
glass5	0.831 ± 0.189 [2,3]	0.807 ± 0.189 [−]	0.807 ± 0.189 [−]	0.896 ± 0.155 [1,2,3]	0.914 ± 0.143 [1,2,3,4]	0.916 ± 0.122 [1,2,3,4]	0.945 ± 0.104 [1,2,3,4,5]
ecoli-0-3-4-6-vs-5	0.821 ± 0.111 [−]	0.853 ± 0.116 [1]	0.855 ± 0.111 [1]	0.893 ± 0.105 [1,2,3,6]	0.903 ± 0.087 [1,2,3,6,7]	0.878 ± 0.094 [1]	0.884 ± 0.073 [1,2,3,6]
yeast-0-5-6-7-9-vs-4	0.670 ± 0.077 [−]	0.663 ± 0.077 [−]	0.661 ± 0.079 [−]	0.792 ± 0.048 [1,2,3,6]	0.791 ± 0.051 [1,2,3,6]	0.759 ± 0.053 [1,2,3]	0.775 ± 0.053 [1,2,3,6]
yeast6	0.729 ± 0.089 [−]	0.717 ± 0.087 [−]	0.717 ± 0.087 [−]	0.825 ± 0.096 [1,2,3,6]	0.818 ± 0.089 [1,2,3,6,7]	0.819 ± 0.077 [1,2,3]	0.824 ± 0.087 [1,2,3,6]
ecoli-0-6-7-vs-5	0.842 ± 0.121 [−]	0.871 ± 0.117 [1,6,7]	0.871 ± 0.117 [1,6,7]	0.868 ± 0.104 [1,6,7]	0.868 ± 0.101 [6,7]	0.849 ± 0.102 [−]	0.850 ± 0.102 [−]
glass-0-1-6-vs-5	0.822 ± 0.182 [−]	0.837 ± 0.162 [−]	0.837 ± 0.162 [−]	0.858 ± 0.160 [−]	0.872 ± 0.160 [4]	0.897 ± 0.129 [−]	0.924 ± 0.115 [6]
ecoli-0-1-3-7-vs-2-6	0.820 ± 0.209 [2,7]	0.678 ± 0.219 [−]	0.703 ± 0.222 [−]	0.841 ± 0.200 [2,3,5,6,7]	0.837 ± 0.200 [2,6,7]	0.832 ± 0.195 [1,2,7]	0.807 ± 0.194 [2]
yeast-0-2-5-6-vs-3-7-8-9	0.725 ± 0.050 [−]	0.728 ± 0.047 [−]	0.728 ± 0.045 [−]	0.766 ± 0.056 [2,7]	0.765 ± 0.055 [2,6,7]	0.730 ± 0.036 [−]	0.734 ± 0.037 [2]
ecoli-0-1-4-7-vs-5-6	0.809 ± 0.095 [−]	0.815 ± 0.091 [−]	0.817 ± 0.090 [−]	0.875 ± 0.098 [1,2,3,6,7]	0.892 ± 0.080 [1,2,3,6,7]	0.844 ± 0.087 [−]	0.877 ± 0.060 [1,2,3,6]
yeast5	0.819 ± 0.085 [−]	0.818 ± 0.080 [−]	0.821 ± 0.077 [−]	0.926 ± 0.051 [1,2,3]	0.928 ± 0.060 [1,2,3]	0.936 ± 0.046 [1,2,3]	0.944 ± 0.051 [1,2,3,6]
shuttle-c2-vs-c4	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	0.995 ± 0.034 [1,2,3]	0.995 ± 0.034 [1,2,3,4]	0.995 ± 0.034 [1,2,3,4]	0.995 ± 0.034 [1,2,3]
ecoli-0-1-4-7-vs-2-3-5-6	0.796 ± 0.092 [−]	0.811 ± 0.097 [6]	0.813 ± 0.097 [6]	0.851 ± 0.091 [1,2,3,6,7]	0.857 ± 0.085 [1,2,3,6,7]	0.791 ± 0.074 [−]	0.823 ± 0.064 [1,6]
yeast-0-3-5-9-vs-7-8	0.656 ± 0.070 [2,3]	0.595 ± 0.054 [−]	0.598 ± 0.053 [−]	0.653 ± 0.067 [2,3]	0.664 ± 0.075 [2,3]	0.689 ± 0.068 [−]	0.687 ± 0.056 [1,6]
yeast-1-vs-7	0.669 ± 0.095 [2,3]	0.549 ± 0.052 [−]	0.549 ± 0.053 [−]	0.676 ± 0.114 [2,3]	0.657 ± 0.109 [2,3]	0.728 ± 0.070 [1,2,3,4]	0.720 ± 0.086 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	0.622 ± 0.082 [2,3]	0.555 ± 0.060 [−]	0.555 ± 0.060 [−]	0.665 ± 0.078 [2,3,5]	0.653 ± 0.071 [2,3]	0.686 ± 0.097 [1,2,3,4,5]	0.704 ± 0.095 [1,2,3,4,5]
ecoli-0-1-4-6-vs-5	0.792 ± 0.090 [2,3]	0.837 ± 0.092 [−]	0.839 ± 0.092 [−]	0.889 ± 0.076 [1,2,3]	0.898 ± 0.084 [2,3]	0.870 ± 0.079 [1,2,3,5]	0.880 ± 0.079 [1,2,3,4,5]
glass-0-1-5-vs-2	0.592 ± 0.127 [−]	0.562 ± 0.111 [−]	0.563 ± 0.111 [−]	0.704 ± 0.134 [1,2,3,6]	0.725 ± 0.135 [1,2,3,6,7]	0.662 ± 0.100 [1,2,3]	0.715 ± 0.118 [1,2,3]
yeast-2-vs-4	0.844 ± 0.064 [−]	0.838 ± 0.060 [−]	0.837 ± 0.059 [−]	0.848 ± 0.066 [1,2,3,6]	0.848 ± 0.068 [1,2,3,6]	0.926 ± 0.043 [1,2,3]	0.919 ± 0.045 [1,2,3,6]
glass-0-6-vs-5	0.899 ± 0.171 [4,5,6,7]	0.900 ± 0.165 [4,5,6,7]	0.900 ± 0.165 [4,5,6,7]	0.810 ± 0.183 [−]	0.799 ± 0.192 [−]	0.816 ± 0.168 [1,2,3,4,5]	0.834 ± 0.179 [1,2,3,4,5]
glass2	0.561 ± 0.118 [4,5,6,7]	0.584 ± 0.088 [4,5,6,7]	0.587 ± 0.091 [4,5,6,7]	0.696 ± 0.137 [−]	0.738 ± 0.123 [−]	0.654 ± 0.112 [−]	0.751 ± 0.104 [6]
yeast-2-vs-8	0.704 ± 0.113 [−]	0.736 ± 0.122 [1]	0.736 ± 0.122 [1]	0.776 ± 0.110 [1,2,3,6]	0.776 ± 0.110 [1,2,3,6]	0.773 ± 0.113 [1,2,3,6]	0.769 ± 0.112 [1,2,3,4,6]
vowel0	0.963 ± 0.028 [2,3,4,5]	0.955 ± 0.029 [4,5]	0.956 ± 0.029 [4,5]	0.859 ± 0.058 [−]	0.852 ± 0.057 [−]	0.968 ± 0.022 [1]	0.963 ± 0.029 [1]
glass-0-4-vs-5	0.992 ± 0.016 [2,3,4,5]	0.991 ± 0.018 [4,5]	0.992 ± 0.016 [4,5]	0.939 ± 0.131 [−]	0.950 ± 0.122 [−]	0.931 ± 0.136 [2,3,4,5]	0.944 ± 0.127 [2,4,5]
glass-0-1-4-6-vs-2	0.573 ± 0.117 [−]	0.556 ± 0.101 [−]	0.559 ± 0.105 [−]	0.684 ± 0.139 [6]	0.700 ± 0.135 [6]	0.653 ± 0.140 [−]	0.707 ± 0.143 [6]
yeast4	0.668 ± 0.071 [−]	0.596 ± 0.059 [−]	0.594 ± 0.054 [−]	0.761 ± 0.072 [1,2,3]	0.754 ± 0.073 [1,2,3]	0.809 ± 0.061 [1,2,3]	0.815 ± 0.063 [1,2,3]
ecoli-0-4-6-vs-5	0.814 ± 0.102 [2,3]	0.850 ± 0.095 [−]	0.850 ± 0.095 [−]	0.890 ± 0.088 [1,2,3]	0.911 ± 0.083 [1,2,3]	0.878 ± 0.091 [1,2,3,4,5]	0.892 ± 0.076 [1,2,3,4,5]
page-blocks-1-3-vs-4	0.956 ± 0.064 [−]	0.979 ± 0.052 [1]	0.979 ± 0.052 [1]	0.759 ± 0.109 [1,2,3,6]	0.850 ± 0.104 [1,2,3,6,7]	0.940 ± 0.069 [1]	0.938 ± 0.075 [1,2,3]
yeast-0-2-5-7-9-vs-3-6-8	0.844 ± 0.051 [4,5,6]	0.872 ± 0.046 [1,4,5,6,7]	0.873 ± 0.046 [1,4,5,6,7]	0.899 ± 0.037 [−]	0.901 ± 0.037 [4]	0.866 ± 0.032 [4,5]	0.876 ± 0.028 [4,5]
ecoli-0-1-vs-2-3-5	0.786 ± 0.114 [−]	0.810 ± 0.098 [1]	0.813 ± 0.099 [1]	0.855 ± 0.091 [1,2,3,6,7]	0.857 ± 0.091 [1,2,3,6,7]	0.850 ± 0.094 [1]	0.847 ± 0.088 [1,6]
ecoli-0-6-7-vs-3-5	0.821 ± 0.123 [−]	0.830 ± 0.110 [−]	0.830 ± 0.110 [−]	0.829 ± 0.107 [1,2,3]	0.830 ± 0.105 [1,2,3]	0.806 ± 0.092 [−]	0.802 ± 0.092 [−]
ecoli-0-3-4-7-vs-5-6	0.843 ± 0.085 [6,7]	0.853 ± 0.089 [6,7]	0.857 ± 0.086 [6,7]	0.881 ± 0.081 [6,7]	0.879 ± 0.078 [6,7]	0.858 ± 0.069 [−]	0.856 ± 0.067 [−]
ecoli-0-2-6-7-vs-3-5	0.813 ± 0.129 [−]	0.821 ± 0.101 [−]	0.821 ± 0.101 [−]	0.835 ± 0.113 [1,6,7]	0.842 ± 0.101 [1,6,7]	0.812 ± 0.092 [−]	0.819 ± 0.083 [−]
shuttle-c0-vs-c4	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]	1.000 ± 0.000 [1]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006 [−]	0.998 ± 0.006 [−]
ecoli-0-3-4-vs-5	0.828 ± 0.116 [−]	0.870 ± 0.115 [1]	0.875 ± 0.112 [1]	0.897 ± 0.111 [1,2,6,7]	0.912 ± 0.112 [1,2,6,7]	0.876 ± 0.093 [1]	0.889 ± 0.096 [1]

Table 1: Results for BAC metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.720 [−]	2.829 [−]	3.329 [2]	4.707 [1,2,3]	5.098 [1,2,3,6]	4.268 [1,2]	5.049 [1,2,3,6]

Table 2: Results for mean ranks according to BAC metric

Table 3:

Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.680 ± 0.227 [4,5,6,7]	0.730 ± 0.196 [4,5,6,7]	0.732 ± 0.196 [4,5,6,7]	0.540 ± 0.244 [6]	0.543 ± 0.244 [6]	0.446 ± 0.174	0.598 ± 0.174 [6]
ecoli-0-2-3-4-vs-5	0.730 ± 0.140 [6,7]	0.796 ± 0.159 [1,6,7]	0.798 ± 0.158 [1,6,7]	0.829 ± 0.126 [1,6,7]	0.834 ± 0.123 [1,6,7]	0.662 ± 0.139	0.657 ± 0.133
glass-0-1-6-vs-2	0.225 ± 0.219	0.163 ± 0.261	0.167 ± 0.266	0.325 ± 0.132 [1,2,3,6]	0.343 ± 0.119 [1,2,3,6,7]	0.233 ± 0.087 [2]	0.308 ± 0.076 [1,2,3,6]
ecoli-0-1-vs-5	0.666 ± 0.143	0.760 ± 0.158 [1,6,7]	0.762 ± 0.159 [1,6,7]	0.850 ± 0.109 [1,2,3,6,7]	0.861 ± 0.108 [1,2,3,6,7]	0.651 ± 0.117	0.666 ± 0.110
yeast-1-4-5-8-vs-7	0.119 ± 0.133 [2,3]	0.027 ± 0.082	0.027 ± 0.082	0.161 ± 0.081 [2,3,6,7]	0.178 ± 0.082 [all]	0.136 ± 0.040 [2,3]	0.138 ± 0.054 [2,3]
ecoli4	0.732 ± 0.138 [6,7]	0.769 ± 0.171 [1,6,7]	0.769 ± 0.171 [1,6,7]	0.867 ± 0.115 [1,2,3,6,7]	0.849 ± 0.146 [1,2,3,6,7]	0.658 ± 0.132	0.666 ± 0.133
led7digit-0-2-4-5-6-7-8-9-vs-1	0.778 ± 0.109 [all]	0.714 ± 0.111 [4,5,6,7]	0.712 ± 0.108 [4,5,6,7]	0.401 ± 0.200	0.392 ± 0.193	0.571 ± 0.103 [4,5,7]	0.544 ± 0.094 [4,5]
glass5	0.657 ± 0.346 [6]	0.633 ± 0.348 [6]	0.633 ± 0.348 [6]	0.707 ± 0.263 [6]	0.766 ± 0.247 [all]	0.557 ± 0.198	0.686 ± 0.220 [6]
ecoli-0-3-4-6-vs-5	0.665 ± 0.186	0.766 ± 0.189 [1,6,7]	0.768 ± 0.180 [1,6,7]	0.805 ± 0.158 [1,6,7]	0.809 ± 0.138 [1,6,7]	0.647 ± 0.143	0.655 ± 0.118
yeast-0-5-6-7-9-vs-4	0.391 ± 0.122 [6]	0.428 ± 0.152 [6,7]	0.423 ± 0.155 [6,7]	0.548 ± 0.074 [1,2,3,6,7]	0.548 ± 0.088 [1,2,3,6,7]	0.350 ± 0.043	0.367 ± 0.047 [6]
yeast6	0.422 ± 0.135 [6,7]	0.511 ± 0.168 [1,6,7]	0.511 ± 0.169 [1,6,7]	0.486 ± 0.124 [1,6,7]	0.510 ± 0.109 [1,6,7]	0.248 ± 0.048	0.313 ± 0.070 [6]
ecoli-0-6-7-vs-5	0.726 ± 0.208 [6,7]	0.791 ± 0.179 [1,6,7]	0.791 ± 0.179 [1,6,7]	0.789 ± 0.167 [1,6,7]	0.783 ± 0.164 [1,6,7]	0.604 ± 0.135	0.600 ± 0.139
glass-0-1-6-vs-5	0.631 ± 0.314 [6]	0.663 ± 0.272 [6]	0.663 ± 0.272 [6]	0.663 ± 0.286 [6]	0.705 ± 0.282 [4,6]	0.540 ± 0.212	0.672 ± 0.223 [6]
ecoli-0-1-3-7-vs-2-6	0.513 ± 0.327 [2,6,7]	0.376 ± 0.441	0.423 ± 0.441 [7]	0.564 ± 0.322 [2,6,7]	0.524 ± 0.324 [6,7]	0.436 ± 0.277 [7]	0.277 ± 0.200
yeast-0-2-5-6-vs-3-7-8-9	0.491 ± 0.084 [6,7]	0.573 ± 0.089 [1,6,7]	0.574 ± 0.083 [1,6,7]	0.618 ± 0.091 [1,2,3,6,7]	0.615 ± 0.093 [1,2,3,6,7]	0.327 ± 0.028	0.333 ± 0.029
ecoli-0-1-4-7-vs-5-6	0.612 ± 0.134 [6,7]	0.711 ± 0.150 [1,6,7]	0.714 ± 0.149 [1,6,7]	0.799 ± 0.141 [1,2,3,6,7]	0.817 ± 0.117 [1,2,3,6,7]	0.512 ± 0.124	0.543 ± 0.088
yeast5	0.658 ± 0.137 [6]	0.680 ± 0.122 [6]	0.686 ± 0.117 [6]	0.715 ± 0.085 [1,6,7]	0.739 ± 0.088 [all]	0.519 ± 0.077	0.680 ± 0.075 [6]
shuttle-c2-vs-c4	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	0.993 ± 0.046	0.993 ± 0.046	0.993 ± 0.046	0.993 ± 0.046
ecoli-0-1-4-7-vs-2-3-5-6	0.611 ± 0.148 [6,7]	0.709 ± 0.164 [1,6,7]	0.711 ± 0.165 [1,6,7]	0.771 ± 0.138 [1,2,3,6,7]	0.779 ± 0.133 [1,2,3,6,7]	0.422 ± 0.087	0.449 ± 0.079 [6]
yeast-0-3-5-9-vs-7-8	0.366 ± 0.116 [2,3,6,7]	0.290 ± 0.142	0.297 ± 0.140	0.388 ± 0.122 [2,3,6,7]	0.392 ± 0.133 [2,3,6,7]	0.288 ± 0.048	0.283 ± 0.038
yeast-1-vs-7	0.353 ± 0.151 [all]	0.163 ± 0.155	0.163 ± 0.155	0.287 ± 0.125 [2,3,5,6,7]	0.259 ± 0.113 [2,3]	0.247 ± 0.041 [2,3]	0.243 ± 0.051 [2,3]
yeast-1-2-8-9-vs-7	0.233 ± 0.137 [2,3,6,7]	0.170 ± 0.169	0.169 ± 0.169	0.242 ± 0.098 [2,3,5,6,7]	0.217 ± 0.082 [6,7]	0.146 ± 0.046	0.152 ± 0.043
ecoli-0-1-4-6-vs-5	0.606 ± 0.149 [6,7]	0.743 ± 0.150 [1,6,7]	0.745 ± 0.152 [1,6,7]	0.815 ± 0.111 [1,2,3,6,7]	0.812 ± 0.115 [1,2,3,6,7]	0.562 ± 0.120	0.570 ± 0.100
glass-0-1-5-vs-2	0.249 ± 0.210	0.173 ± 0.249	0.173 ± 0.249	0.346 ± 0.152 [1,2,3,6]	0.357 ± 0.144 [1,2,3,6,7]	0.261 ± 0.064 [2,3]	0.306 ± 0.095 [1,2,3,6]
yeast-2-vs-4	0.707 ± 0.087 [7]	0.729 ± 0.093 [6,7]	0.727 ± 0.092 [6,7]	0.766 ± 0.094 [1,2,3,6,7]	0.767 ± 0.096 [1,2,3,6,7]	0.691 ± 0.070 [7]	0.663 ± 0.066
glass-0-6-vs-5	0.793 ± 0.302 [4,5,6,7]	0.809 ± 0.283 [4,5,6,7]	0.809 ± 0.283 [4,5,6,7]	0.651 ± 0.337 [6]	0.644 ± 0.366 [6,7]	0.494 ± 0.241	0.604 ± 0.308 [6]
glass2	0.167 ± 0.204	0.243 ± 0.230 [1]	0.252 ± 0.236 [1]	0.320 ± 0.154 [1,6]	0.354 ± 0.135 [1,2,3,6,7]	0.224 ± 0.074	0.305 ± 0.077 [1,6]
yeast-2-vs-8	0.408 ± 0.199 [6,7]	0.585 ± 0.246 [1,6,7]	0.585 ± 0.246 [1,6,7]	0.666 ± 0.197 [1,2,3,6,7]	0.660 ± 0.191 [1,2,3,6,7]	0.278 ± 0.085	0.268 ± 0.086
vowel0	0.921 ± 0.045 [4,5,6,7]	0.909 ± 0.041 [4,5,6,7]	0.911 ± 0.040 [4,5,6,7]	0.801 ± 0.082	0.796 ± 0.073	0.839 ± 0.057 [4,5]	0.848 ± 0.054 [4,5]
glass-0-4-vs-5	0.942 ± 0.109	0.939 ± 0.114	0.942 ± 0.109	0.903 ± 0.226	0.920 ± 0.216 [6]	0.860 ± 0.250	0.885 ± 0.244
glass-0-1-4-6-vs-2	0.220 ± 0.210	0.160 ± 0.245	0.164 ± 0.248	0.301 ± 0.153 [1,2,3,6]	0.313 ± 0.144 [1,2,3,6,7]	0.225 ± 0.087 [2]	0.279 ± 0.111 [1,2,3,6]
yeast4	0.336 ± 0.122 [2,3,6,7]	0.273 ± 0.138	0.271 ± 0.134	0.404 ± 0.091 [1,2,3,6,7]	0.406 ± 0.105 [1,2,3,6,7]	0.265 ± 0.040	0.285 ± 0.047
ecoli-0-4-6-vs-5	0.667 ± 0.159	0.764 ± 0.145 [1,6,7]	0.764 ± 0.145 [1,6,7]	0.809 ± 0.136 [1,2,3,6,7]	0.826 ± 0.146 [1,2,3,6,7]	0.663 ± 0.155	0.661 ± 0.128
page-blocks-1-3-vs-4	0.903 ± 0.084 [4,5,6]	0.948 ± 0.081 [1,4,5,6,7]	0.948 ± 0.081 [1,4,5,6,7]	0.615 ± 0.201	0.794 ± 0.167 [4]	0.777 ± 0.159 [4]	0.884 ± 0.114 [4,5,6]
yeast-0-2-5-7-9-vs-3-6-8	0.711 ± 0.076 [6,7]	0.798 ± 0.069 [1,6,7]	0.799 ± 0.069 [1,6,7]	0.819 ± 0.055 [1,2,3,6,7]	0.822 ± 0.056 [1,2,3,6,7]	0.527 ± 0.048	0.552 ± 0.047 [6]
ecoli-0-1-vs-2-3-5	0.599 ± 0.183	0.695 ± 0.161 [1,6,7]	0.699 ± 0.162 [1,6,7]	0.804 ± 0.133 [1,2,3,6,7]	0.799 ± 0.133 [1,2,3,6,7]	0.584 ± 0.122	0.565 ± 0.117
ecoli-0-6-7-vs-3-5	0.676 ± 0.209 [6,7]	0.730 ± 0.190 [1,6,7]	0.731 ± 0.188 [1,6,7]	0.722 ± 0.175 [6,7]	0.718 ± 0.177 [6,7]	0.550 ± 0.147	0.530 ± 0.142
ecoli-0-3-4-7-vs-5-6	0.686 ± 0.108 [6,7]	0.784 ± 0.131 [1,6,7]	0.790 ± 0.128 [1,6,7]	0.801 ± 0.122 [1,5,6,7]	0.783 ± 0.117 [1,6,7]	0.579 ± 0.103 [7]	0.538 ± 0.100
ecoli-0-2-6-7-vs-3-5	0.664 ± 0.218 [6,7]	0.715 ± 0.174 [1,6,7]	0.721 ± 0.173 [1,6,7]	0.732 ± 0.190 [1,6,7]	0.738 ± 0.170 [1,6,7]	0.558 ± 0.148	0.553 ± 0.135
shuttle-c0-vs-c4	1.000 ± 0.000 [6,7]	1.000 ± 0.000 [1,6,7]	1.000 ± 0.000 [1,6,7]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006	0.998 ± 0.006
ecoli-0-3-4-vs-5	0.683 ± 0.176	0.787 ± 0.183 [1,6,7]	0.795 ± 0.182 [1,6,7]	0.820 ± 0.167 [1,6,7]	0.833 ± 0.190 [1,6,7]	0.659 ± 0.138	0.672 ± 0.157

Table 3: Results for F1 metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	3.793 [6,7]	4.134 [6,7]	4.585 [1,2,6,7]	5.366 [1,2,6,7]	5.610 [1,2,6,7]	1.927	2.585 [6]

Table 4: Results for mean ranks according to F1 metric

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Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.730 ± 0.276 [4,5,6,7]	0.777 ± 0.245 [4,5,6,7]	0.783 ± 0.247 [4,5,6,7]	0.524 ± 0.284 [6]	0.520 ± 0.272 [6]	0.339 ± 0.174 [−]	0.486 ± 0.190 [6]
ecoli-0-2-3-4-vs-5	0.769 ± 0.174 [6,7]	0.893 ± 0.158 [1,6,7]	0.888 ± 0.158 [1,6,7]	0.865 ± 0.144 [6]	0.861 ± 0.157 [6]	0.568 ± 0.170 [−]	0.554 ± 0.166 [6]
glass-0-1-6-vs-2	0.237 ± 0.249 [6]	0.260 ± 0.416 [−]	0.277 ± 0.436 [−]	0.225 ± 0.100 [6,7]	0.236 ± 0.087 [6,7]	0.141 ± 0.055 [−]	0.193 ± 0.053 [6]
ecoli-0-1-vs-5	0.731 ± 0.181 [6]	0.894 ± 0.146 [1,6,7]	0.895 ± 0.146 [1,6,7]	0.950 ± 0.102 [1,2,3,6,7]	0.945 ± 0.106 [1,2,3,6,7]	0.543 ± 0.141 [−]	0.570 ± 0.149 [6]
yeast-1-4-5-8-vs-7	0.112 ± 0.127 [2,3]	0.087 ± 0.273 [6,7]	0.087 ± 0.273 [6,7]	0.108 ± 0.056 [2,3,6,7]	0.120 ± 0.057 [2,3,4,6,7]	0.077 ± 0.023 [−]	0.079 ± 0.031 [−]
ecoli4	0.743 ± 0.176 [6,7]	0.827 ± 0.181 [1,6,7]	0.827 ± 0.181 [1,6,7]	0.920 ± 0.115 [1,2,3,6,7]	0.885 ± 0.152 [1,6,7]	0.550 ± 0.183 [−]	0.564 ± 0.186 [6]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.797 ± 0.142 [all]	0.666 ± 0.134 [6,7]	0.660 ± 0.130 [6,7]	0.646 ± 0.280 [5,6,7]	0.583 ± 0.272 [6,7]	0.453 ± 0.123 [7]	0.420 ± 0.115 [−]
glass5	0.707 ± 0.382 [6,7]	0.717 ± 0.394 [6,7]	0.717 ± 0.394 [6,7]	0.687 ± 0.303 [6,7]	0.767 ± 0.286 [6,7]	0.430 ± 0.201 [7]	0.575 ± 0.254 [−]
ecoli-0-3-4-6-vs-5	0.692 ± 0.204 [6,7]	0.866 ± 0.185 [6,7]	0.860 ± 0.186 [6,7]	0.834 ± 0.156 [6,7]	0.808 ± 0.156 [4,6,7]	0.553 ± 0.176 [−]	0.554 ± 0.164 [6]
yeast-0-5-6-7-9-vs-4	0.395 ± 0.139 [6,7]	0.617 ± 0.193 [1,5,6,7]	0.610 ± 0.192 [1,5,6,7]	0.480 ± 0.113 [1,6,7]	0.480 ± 0.121 [1,6,7]	0.223 ± 0.031 [−]	0.235 ± 0.035 [6]
yeast6	0.419 ± 0.182 [6,7]	0.677 ± 0.236 [1,4,5,6,7]	0.678 ± 0.238 [1,4,5,6,7]	0.391 ± 0.112 [1,6,7]	0.429 ± 0.099 [1,6,7]	0.150 ± 0.031 [−]	0.203 ± 0.049 [6]
ecoli-0-6-7-vs-5	0.794 ± 0.232 [6,7]	0.878 ± 0.160 [1,4,5,6,7]	0.878 ± 0.160 [1,4,5,6,7]	0.871 ± 0.167 [6,7]	0.859 ± 0.175 [4,6,7]	0.523 ± 0.157 [−]	0.521 ± 0.180 [6]
glass-0-1-6-vs-5	0.680 ± 0.364 [6,7]	0.732 ± 0.335 [1,6,7]	0.732 ± 0.335 [1,6,7]	0.671 ± 0.332 [6,7]	0.717 ± 0.316 [6,7]	0.427 ± 0.237 [−]	0.583 ± 0.265 [−]
ecoli-0-1-3-7-vs-2-6	0.465 ± 0.340 [6,7]	0.413 ± 0.477 [6,7]	0.463 ± 0.478 [6,7]	0.534 ± 0.353 [6,7]	0.486 ± 0.359 [6,7]	0.365 ± 0.288 [7]	0.196 ± 0.185 [−]
yeast-0-2-5-6-vs-3-7-8-9	0.479 ± 0.096 [6,7]	0.737 ± 0.117 [7]	0.744 ± 0.113 [7]	0.713 ± 0.101 [6,7]	0.702 ± 0.104 [6,7]	0.207 ± 0.020 [7]	0.212 ± 0.021 [−]
ecoli-0-1-4-7-vs-5-6	0.611 ± 0.150 [6,7]	0.846 ± 0.142 [1,5,6,7]	0.846 ± 0.142 [1,4,5,6,7]	0.893 ± 0.133 [1,6,7]	0.868 ± 0.146 [1,6,7]	0.410 ± 0.164 [−]	0.404 ± 0.093 [−]
yeast5	0.703 ± 0.162 [6,7]	0.753 ± 0.147 [1,6,7]	0.755 ± 0.146 [1,6,7]	0.617 ± 0.109 [1,6,7]	0.650 ± 0.104 [1,6,7]	0.365 ± 0.070 [−]	0.548 ± 0.083 [−]
shuttle-c2-vs-c4	1.000 ± 0.000 [4,5,6,7]	1.000 ± 0.000 [1,4,5,6,7]	1.000 ± 0.000 [1,4,5,6,7]	1.000 ± 0.000 [6,7]	1.000 ± 0.000 [4,6,7]	1.000 ± 0.000 [−]	1.000 ± 0.000 [6]
ecoli-0-1-4-7-vs-2-3-5-6	0.611 ± 0.157 [6,7]	0.853 ± 0.142 [1,6,7]	0.854 ± 0.142 [1,6,7]	0.887 ± 0.130 [1,6,7]	0.875 ± 0.147 [1,6,7]	0.302 ± 0.089 [−]	0.317 ± 0.079 [−]
yeast-0-3-5-9-vs-7-8	0.363 ± 0.130 [6,7]	0.526 ± 0.259 [1,6,7]	0.539 ± 0.258 [1,6,7]	0.491 ± 0.176 [1,6,7]	0.432 ± 0.158 [1,6,7]	0.177 ± 0.031 [−]	0.173 ± 0.024 [−]
yeast-1-vs-7	0.333 ± 0.141 [6,7]	0.400 ± 0.410 [1,5,6,7]	0.400 ± 0.410 [1,5,6,7]	0.213 ± 0.097 [1,5,6,7]	0.187 ± 0.086 [1,6,7]	0.148 ± 0.025 [−]	0.145 ± 0.031 [−]
yeast-1-2-8-9-vs-7	0.212 ± 0.140 [4,5,6,7]	0.415 ± 0.423 [4,5,6,7]	0.405 ± 0.415 [4,5,6,7]	0.180 ± 0.082 [5,6,7]	0.155 ± 0.061 [6,7]	0.084 ± 0.026 [−]	0.087 ± 0.024 [−]
ecoli-0-1-4-6-vs-5	0.655 ± 0.218 [5,6,7]	0.868 ± 0.176 [1,4,5,6,7]	0.864 ± 0.181 [1,4,5,6,7]	0.873 ± 0.144 [5,6,7]	0.843 ± 0.136 [6,7]	0.442 ± 0.132 [−]	0.440 ± 0.105 [−]
glass-0-1-5-vs-2	0.302 ± 0.304 [6,7]	0.249 ± 0.370 [1,6,7]	0.249 ± 0.370 [1,6,7]	0.247 ± 0.130 [1,6,7]	0.247 ± 0.109 [1,6,7]	0.158 ± 0.040 [−]	0.192 ± 0.062 [−]
yeast-2-vs-4	0.709 ± 0.097 [6,7]	0.779 ± 0.116 [−]	0.778 ± 0.116 [−]	0.850 ± 0.099 [6,7]	0.852 ± 0.097 [6,7]	0.552 ± 0.080 [−]	0.517 ± 0.068 [6]
glass-0-6-vs-5	0.808 ± 0.318 [6,7]	0.837 ± 0.295 [1,6,7]	0.837 ± 0.295 [1,6,7]	0.727 ± 0.381 [1,2,3,6,7]	0.730 ± 0.403 [1,2,3,6,7]	0.397 ± 0.250 [7]	0.573 ± 0.338 [6]
glass2	0.172 ± 0.228 [6,7]	0.405 ± 0.417 [6,7]	0.429 ± 0.431 [6,7]	0.233 ± 0.121 [6,7]	0.246 ± 0.102 [6,7]	0.134 ± 0.047 [−]	0.190 ± 0.048 [6]
yeast-2-vs-8	0.442 ± 0.271 [−]	0.848 ± 0.292 [1,4,6,7]	0.848 ± 0.292 [1,4,5,6,7]	0.912 ± 0.183 [1,6]	0.901 ± 0.184 [1,6,7]	0.178 ± 0.056 [−]	0.170 ± 0.057 [6]
vowel0	0.911 ± 0.067 [6,7]	0.902 ± 0.068 [6,7]	0.906 ± 0.063 [6,7]	0.915 ± 0.076 [6,7]	0.924 ± 0.070 [6,7]	0.742 ± 0.081 [−]	0.768 ± 0.082 [6]
glass-0-4-vs-5	0.908 ± 0.169 [6,7]	0.905 ± 0.175 [6,7]	0.908 ± 0.169 [6,7]	0.950 ± 0.206 [6,7]	0.960 ± 0.195 [2,3,6,7]	0.872 ± 0.263 [−]	0.895 ± 0.255 [6]
glass-0-1-4-6-vs-2	0.258 ± 0.269 [−]	0.229 ± 0.363 [1,4,6,7]	0.232 ± 0.363 [1,4,5,6,7]	0.212 ± 0.111 [1,6]	0.216 ± 0.103 [1,2,3,6]	0.134 ± 0.053 [−]	0.174 ± 0.073 [6]
yeast4	0.330 ± 0.134 [6,7]	0.525 ± 0.275 [−]	0.520 ± 0.275 [−]	0.326 ± 0.086 [6,7]	0.332 ± 0.099 [6,7]	0.161 ± 0.025 [−]	0.176 ± 0.030 [6]
ecoli-0-4-6-vs-5	0.744 ± 0.193 [6,7]	0.877 ± 0.159 [1,4,5,6,7]	0.877 ± 0.159 [1,4,5,6,7]	0.847 ± 0.162 [6,7]	0.826 ± 0.176 [6,7]	0.573 ± 0.186 [−]	0.549 ± 0.152 [6]
page-blocks-1-3-vs-4	0.908 ± 0.102 [6,7]	0.942 ± 0.084 [1,6,7]	0.942 ± 0.084 [1,6,7]	0.811 ± 0.222 [1,6,7]	0.970 ± 0.093 [1,6,7]	0.699 ± 0.205 [−]	0.899 ± 0.119 [6]
yeast-0-2-5-7-9-vs-3-6-8	0.709 ± 0.082 [4,6]	0.850 ± 0.086 [1,4,6,7]	0.850 ± 0.086 [1,4,6,7]	0.827 ± 0.073 [6]	0.829 ± 0.073 [1,4,6,7]	0.376 ± 0.050 [−]	0.401 ± 0.054 [4,6]
ecoli-0-1-vs-2-3-5	0.627 ± 0.198 [6,7]	0.803 ± 0.163 [1,4,5,6,7]	0.809 ± 0.165 [1,4,5,6,7]	0.958 ± 0.092 [1,6,7]	0.939 ± 0.105 [1,6,7]	0.470 ± 0.114 [−]	0.450 ± 0.124 [6]
ecoli-0-6-7-vs-3-5	0.735 ± 0.236 [6,7]	0.855 ± 0.205 [1,6,7]	0.858 ± 0.198 [1,6,7]	0.820 ± 0.191 [1,2,3,6,7]	0.804 ± 0.198 [1,2,3,6,7]	0.473 ± 0.173 [−]	0.451 ± 0.180 [−]
ecoli-0-3-4-7-vs-5-6	0.692 ± 0.154 [6,7]	0.904 ± 0.130 [1,6,7]	0.904 ± 0.130 [1,6,7]	0.848 ± 0.140 [6,7]	0.810 ± 0.137 [6,7]	0.464 ± 0.138 [−]	0.400 ± 0.101 [−]
ecoli-0-2-6-7-vs-3-5	0.722 ± 0.252 [6,7]	0.838 ± 0.201 [1,4,5,6,7]	0.858 ± 0.197 [1,4,5,6,7]	0.825 ± 0.196 [1,5,6,7]	0.805 ± 0.186 [1,6,7]	0.500 ± 0.211 [7]	0.478 ± 0.196 [−]
shuttle-c0-vs-c4	1.000 ± 0.000 [6,7]	1.000 ± 0.000 [1,6,7]	1.000 ± 0.000 [1,6,7]	1.000 ± 0.000 [1,6,7]	1.000 ± 0.000 [1,6,7]	1.000 ± 0.000 [−]	1.000 ± 0.000 [−]
ecoli-0-3-4-vs-5	0.738 ± 0.200 [6,7]	0.863 ± 0.172 [1,6,7]	0.863 ± 0.172 [1,6,7]	0.870 ± 0.155 [1,6,7]	0.856 ± 0.193 [1,6,7]	0.576 ± 0.164 [−]	0.578 ± 0.184 [−]

Table 5: Results for Precision metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	3.939 [6,7]	5.463 [1,6,7]	5.695 [1,4,5,6,7]	4.805 [1,6,7]	4.805 [1,6,7]	1.512 [−]	1.780 [−]

Table 6: Results for mean ranks according to Precision metric

Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.717 ± 0.277	0.730 ± 0.233	0.730 ± 0.233	0.630 ± 0.293	0.620 ± 0.280	0.740 ± 0.258	0.853 ± 0.204
ecoli-0-2-3-4-vs-5	0.730 ± 0.179 [5]	0.740 ± 0.193 [4,5]	0.745 ± 0.190 [4,5]	0.820 ± 0.173 [—]	0.835 ± 0.162 [—]	0.845 ± 0.172 [4,5]	0.860 ± 0.159 [all]
glass-0-1-6-vs-2	0.243 ± 0.247 [—]	0.123 ± 0.201 [—]	0.123 ± 0.201 [—]	0.630 ± 0.265 [1,2,3]	0.667 ± 0.248 [1,2,3]	0.725 ± 0.277 [1,2,3]	0.798 ± 0.191 [1,2,3]
ecoli-0-1-vs-5	0.655 ± 0.205 [2,3]	0.700 ± 0.212 [—]	0.705 ± 0.216 [—]	0.790 ± 0.160 [1,2,3]	0.810 ± 0.154 [1,2,3]	0.870 ± 0.167 [1,2,3,4]	0.865 ± 0.151 [1,2,3,5]
yeast-1-4-5-8-vs-7	0.140 ± 0.157 [—]	0.017 ± 0.049 [—]	0.017 ± 0.049 [—]	0.330 ± 0.174 [1,2,3]	0.360 ± 0.161 [1,2,3]	0.580 ± 0.186 [1,2,3,4,5]	0.543 ± 0.218 [1,2,3,4,5]
ecoli4	0.755 ± 0.183 [2,3]	0.755 ± 0.214 [—]	0.755 ± 0.214 [—]	0.845 ± 0.172 [1,2,3]	0.850 ± 0.193 [1,2,3]	0.890 ± 0.142 [1,2,3,4,5]	0.890 ± 0.151 [1,2,3,4,5]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.782 ± 0.143 [4,5]	0.796 ± 0.145 [4,5]	0.799 ± 0.145 [4,5]	0.312 ± 0.178 [—]	0.318 ± 0.177 [—]	0.835 ± 0.156 [1,2,3,4,5]	0.843 ± 0.161 [1,2,3,4,5]
glass5	0.670 ± 0.382 [4,5]	0.620 ± 0.381 [4,5]	0.620 ± 0.381 [4,5]	0.810 ± 0.314 [—]	0.840 ± 0.290 [—]	0.900 ± 0.244 [1,2,3,4,5]	0.930 ± 0.200 [1,2,3,4,5]
ecoli-0-3-4-6-vs-5	0.680 ± 0.218 [—]	0.720 ± 0.227 [—]	0.725 ± 0.219 [—]	0.805 ± 0.207 [1,2,3]	0.830 ± 0.169 [1,2,3]	0.845 ± 0.186 [1,2,3]	0.855 ± 0.150 [1,2,3,4]
yeast-0-5-6-7-9-vs-4	0.412 ± 0.159 [—]	0.351 ± 0.157 [—]	0.347 ± 0.162 [—]	0.670 ± 0.107 [1,2,3]	0.669 ± 0.105 [1,2,3]	0.832 ± 0.119 [1,2,3]	0.850 ± 0.104 [1,2,3,4]
yeast6	0.477 ± 0.182 [2,3]	0.440 ± 0.175 [—]	0.440 ± 0.175 [—]	0.677 ± 0.195 [1,2,3]	0.657 ± 0.180 [1,2,3]	0.740 ± 0.165 [1,2,3,4,5]	0.717 ± 0.181 [1,2,3,4,5]
ecoli-0-6-7-vs-5	0.705 ± 0.243 [—]	0.755 ± 0.231 [—]	0.755 ± 0.231 [—]	0.750 ± 0.206 [1,2,3]	0.750 ± 0.200 [1,2,3]	0.780 ± 0.215 [1,2,3,4,5]	0.785 ± 0.218 [1,2,3,4,5]
glass-0-1-6-vs-5	0.660 ± 0.366 [—]	0.690 ± 0.330 [1]	0.690 ± 0.330 [1]	0.740 ± 0.320 [—]	0.760 ± 0.320 [—]	0.870 ± 0.260 [1]	0.890 ± 0.229 [1]
ecoli-0-1-3-7-vs-2-6	0.660 ± 0.417 [—]	0.360 ± 0.436 [—]	0.410 ± 0.443 [—]	0.700 ± 0.400 [—]	0.700 ± 0.400 [—]	0.700 ± 0.400 [—]	0.700 ± 0.412 [—]
yeast-0-2-5-6-vs-3-7-8-9	0.512 ± 0.097 [2,3]	0.476 ± 0.093 [—]	0.475 ± 0.089 [—]	0.557 ± 0.114 [2,3]	0.557 ± 0.110 [2,3]	0.796 ± 0.087 [2,3]	0.792 ± 0.081 [2,3]
ecoli-0-1-4-7-vs-5-6	0.656 ± 0.200 [2,3]	0.640 ± 0.183 [—]	0.644 ± 0.180 [—]	0.760 ± 0.200 [1,2,3]	0.796 ± 0.162 [1,2,3]	0.804 ± 0.189 [1,2,3,4,5]	0.868 ± 0.130 [1,2,3,4,5]
yeast5	0.648 ± 0.170 [—]	0.643 ± 0.160 [—]	0.650 ± 0.155 [—]	0.869 ± 0.103 [1,2,3]	0.872 ± 0.122 [1,2,3]	0.923 ± 0.094 [1,2,3,4]	0.913 ± 0.103 [all]
shuttle-c2-vs-c4	1.000 ± 0.000 [—]	1.000 ± 0.000 [—]	1.000 ± 0.000 [—]	0.990 ± 0.069 [1,2,3]	0.990 ± 0.069 [1,2,3]	0.990 ± 0.069 [1,2,3,4,5]	0.990 ± 0.069 [1,2,3,4,5]
ecoli-0-1-4-7-vs-2-3-5-6	0.632 ± 0.180 [—]	0.634 ± 0.195 [—]	0.637 ± 0.197 [—]	0.713 ± 0.184 [1,2,3]	0.727 ± 0.170 [1,2,3]	0.765 ± 0.168 [1,2,3,4,5]	0.828 ± 0.149 [all]
yeast-0-3-5-9-vs-7-8	0.394 ± 0.146 [—]	0.210 ± 0.111 [—]	0.214 ± 0.109 [—]	0.350 ± 0.148 [2,3]	0.388 ± 0.157 [2,3]	0.778 ± 0.144 [1,2,3,4]	0.792 ± 0.124 [all]
yeast-1-vs-7	0.393 ± 0.190 [2,3,4]	0.107 ± 0.104 [—]	0.107 ± 0.104 [—]	0.480 ± 0.232 [2,3]	0.460 ± 0.220 [2,3]	0.763 ± 0.163 [1,2,3,4,5]	0.753 ± 0.173 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	0.280 ± 0.168 [2,3]	0.113 ± 0.122 [—]	0.113 ± 0.122 [—]	0.393 ± 0.151 [1,2,3]	0.373 ± 0.143 [2,3]	0.577 ± 0.206 [1,2,3,4,5]	0.620 ± 0.200 [1,2,3,4,5]
ecoli-0-1-4-6-vs-5	0.615 ± 0.188 [2,3]	0.685 ± 0.185 [—]	0.690 ± 0.184 [—]	0.790 ± 0.152 [1,2,3]	0.810 ± 0.170 [1,2,3]	0.835 ± 0.162 [1,2,3,4,5]	0.850 ± 0.165 [1,2,3,4,5]
glass-0-1-5-vs-2	0.262 ± 0.252 [—]	0.147 ± 0.228 [1]	0.147 ± 0.228 [1]	0.632 ± 0.256 [1,2,3]	0.682 ± 0.262 [1,2,3]	0.777 ± 0.205 [1,2,3,4]	0.790 ± 0.255 [1,2,3,4]
yeast-2-vs-4	0.722 ± 0.132 [2,3]	0.701 ± 0.122 [—]	0.699 ± 0.120 [—]	0.711 ± 0.133 [1,2,3]	0.711 ± 0.138 [1,2,3]	0.939 ± 0.088 [1,2,3,4,5]	0.937 ± 0.092 [1,2,3,4,5]
glass-0-6-vs-5	0.820 ± 0.328 [4,5]	0.820 ± 0.312 [4,5]	0.820 ± 0.312 [4,5]	0.640 ± 0.361 [—]	0.610 ± 0.378 [—]	0.760 ± 0.320 [4,5]	0.720 ± 0.362 [5]
glass2	0.187 ± 0.238 [—]	0.185 ± 0.177 [—]	0.190 ± 0.182 [—]	0.560 ± 0.274 [1,2,3]	0.658 ± 0.239 [1,2,3,4]	0.713 ± 0.220 [1,2,3,4]	0.800 ± 0.216 [all]
yeast-2-vs-8	0.435 ± 0.233 [—]	0.475 ± 0.246 [—]	0.475 ± 0.246 [—]	0.555 ± 0.219 [1,2,3]	0.555 ± 0.219 [1,2,3]	0.690 ± 0.242 [1,2,3,4,5]	0.690 ± 0.247 [1,2,3,4,5]
vowel0	0.936 ± 0.055 [4,5]	0.921 ± 0.059 [4,5]	0.922 ± 0.059 [4,5]	0.724 ± 0.118 [—]	0.711 ± 0.117 [—]	0.972 ± 0.041 [1,2,3,4,5]	0.957 ± 0.061 [1,2,3,4,5]
glass-0-4-vs-5	1.000 ± 0.000 [4,5]	1.000 ± 0.000 [4,5]	1.000 ± 0.000 [4,5]	0.880 ± 0.256 [—]	0.900 ± 0.244 [—]	0.880 ± 0.256 [all]	0.900 ± 0.244 [1,2,3,4,5]
glass-0-1-4-6-vs-2	0.213 ± 0.216 [4,6]	0.132 ± 0.201 [4,6]	0.138 ± 0.213 [4,6]	0.557 ± 0.285 [—]	0.600 ± 0.270 [—]	0.727 ± 0.292 [—]	0.738 ± 0.275 [—]
yeast4	0.364 ± 0.141 [2,3]	0.201 ± 0.118 [—]	0.197 ± 0.109 [—]	0.565 ± 0.150 [1,2,3]	0.550 ± 0.148 [1,2,3]	0.759 ± 0.130 [1,2,3,4,5]	0.757 ± 0.130 [1,2,3,4,5]
ecoli-0-4-6-vs-5	0.660 ± 0.210 [2,3]	0.715 ± 0.193 [—]	0.715 ± 0.193 [—]	0.800 ± 0.173 [1,2,3]	0.845 ± 0.157 [1,2,3]	0.840 ± 0.171 [1,2,3]	0.875 ± 0.143 [1,2,3,4,5]
page-blocks-1-3-vs-4	0.918 ± 0.131 [—]	0.963 ± 0.105 [1]	0.963 ± 0.105 [1]	0.527 ± 0.217 [1,2,3]	0.701 ± 0.208 [1,2,3,4]	0.913 ± 0.130 [1,2,3,4]	0.884 ± 0.149 [1,2,3,4]
yeast-0-2-5-7-9-vs-3-6-8	0.721 ± 0.102 [4,5]	0.760 ± 0.092 [4,5,6,7]	0.762 ± 0.092 [4,5,6,7]	0.817 ± 0.074 [—]	0.820 ± 0.074 [4]	0.900 ± 0.076 [4,5]	0.906 ± 0.072 [4,5]
ecoli-0-1-vs-2-3-5	0.615 ± 0.230 [—]	0.639 ± 0.196 [1]	0.643 ± 0.197 [1]	0.715 ± 0.183 [1,2,3]	0.719 ± 0.183 [1,2,3]	0.805 ± 0.191 [1,2,3,4,5]	0.813 ± 0.187 [1,2,3,4,5]
ecoli-0-6-7-vs-3-5	0.671 ± 0.250 [—]	0.674 ± 0.223 [—]	0.674 ± 0.223 [—]	0.677 ± 0.210 [1,2,3]	0.682 ± 0.204 [1,2,3]	0.718 ± 0.182 [1,2,3,4,5]	0.722 ± 0.188 [1,2,3,4,5]
ecoli-0-3-4-7-vs-5-6	0.728 ± 0.182 [—]	0.716 ± 0.179 [—]	0.724 ± 0.173 [—]	0.780 ± 0.161 [—]	0.780 ± 0.156 [—]	0.836 ± 0.153 [4]	0.868 ± 0.136 [4,5]
ecoli-0-2-6-7-vs-3-5	0.659 ± 0.255 [—]	0.659 ± 0.202 [—]	0.659 ± 0.202 [—]	0.688 ± 0.222 [1,2,3]	0.704 ± 0.197 [1,2,3]	0.727 ± 0.199 [1,2,3,4,5]	0.751 ± 0.179 [1,2,3,4,5]
shuttle-c0-vs-c4	1.000 ± 0.000 [—]	1.000 ± 0.000 [—]	1.000 ± 0.000 [—]	0.996 ± 0.012 [—]	0.996 ± 0.012 [—]	0.996 ± 0.012 [1,2,3]	0.996 ± 0.012 [1,2,3,4,5]
ecoli-0-3-4-vs-5	0.690 ± 0.237 [—]	0.755 ± 0.226 [—]	0.765 ± 0.220 [1]	0.810 ± 0.221 [1]	0.840 ± 0.222 [1,2,3]	0.830 ± 0.196 [1,2,3]	0.860 ± 0.194 [1,2,3,4]

Table 7: Results for Recall metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.756 [—]	2.488 [—]	2.854 [2]	3.683 [1,2]	4.195 [1,2,3,4]	5.805 [1,2,3,4,5]	6.220 [all]

Table 8: Results for mean ranks according to Recall metric

4

Table 9: Results for AUC metric (continued)

Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.846 ± 0.136 (4,5)	0.857 ± 0.117 (4,5)	0.857 ± 0.117 (4,5)	0.791 ± 0.151 (−)	0.788 ± 0.144 (−)	0.816 ± 0.129 (−)	0.892 ± 0.102 (4,5,6)
ecoli-0-2-3-4-vs-5	0.850 ± 0.087 (−)	0.865 ± 0.099 (1)	0.867 ± 0.097 (1)	0.902 ± 0.087 (1,2,6,7)	0.908 ± 0.081 (1,2,3,6,7)	0.881 ± 0.088 (−)	0.885 ± 0.079 (1)
glass-0-1-6-vs-2	0.582 ± 0.128 (−)	0.553 ± 0.104 (−)	0.552 ± 0.105 (−)	0.707 ± 0.131 (1,2,3,6)	0.727 ± 0.122 (1,2,3,6)	0.648 ± 0.129 (1,2,3)	0.732 ± 0.095 (1,2,3,6)
ecoli-0-1-vs-5	0.814 ± 0.099 (−)	0.845 ± 0.105 (1)	0.848 ± 0.107 (1)	0.892 ± 0.080 (1,2,3)	0.902 ± 0.077 (1,2,3)	0.897 ± 0.079 (1,2,3)	0.897 ± 0.071 (1,2,3)
yeast-1-4-5-8-vs-7	0.546 ± 0.078 (2,3)	0.507 ± 0.025 (−)	0.507 ± 0.025 (−)	0.601 ± 0.089 (1,2,3)	0.617 ± 0.085 (1,2,3,4)	0.633 ± 0.090 (1,2,3,4)	0.627 ± 0.111 (1,2,3)
ecoli4	0.868 ± 0.091 (−)	0.871 ± 0.107 (−)	0.871 ± 0.107 (−)	0.920 ± 0.085 (1,2,3,6)	0.921 ± 0.096 (1,2,3,7)	0.916 ± 0.068 (1,2,3)	0.918 ± 0.071 (1,2,3)
led7digit-0-2-4-5-6-7-8-9-vs-1	0.881 ± 0.072 (2,3,4,5,7)	0.878 ± 0.073 (4,5,7)	0.879 ± 0.072 (4,5,6,7)	0.649 ± 0.088 (−)	0.648 ± 0.089 (−)	0.866 ± 0.072 (4,5,7)	0.862 ± 0.071 (4,5)
glass5	0.831 ± 0.189 (−)	0.807 ± 0.189 (−)	0.807 ± 0.189 (−)	0.896 ± 0.155 (1,2,3)	0.914 ± 0.143 (1,2,3,4)	0.916 ± 0.122 (2,3,4,5)	0.945 ± 0.104 (2,3,5,6)
ecoli-0-3-4-6-vs-5	0.821 ± 0.111 (−)	0.853 ± 0.116 (1)	0.855 ± 0.111 (1)	0.893 ± 0.105 (1,2,3,6)	0.903 ± 0.087 (1,2,3,4)	0.878 ± 0.094 (1)	0.884 ± 0.073 (1,2,3)
yeast-0-5-6-7-9-vs-4	0.670 ± 0.077 (−)	0.663 ± 0.077 (−)	0.661 ± 0.079 (−)	0.792 ± 0.048 (1,2,3,6)	0.791 ± 0.051 (1,2,3,6,7)	0.759 ± 0.053 (1,2,3)	0.775 ± 0.053 (1,2,3)
yeast6	0.729 ± 0.089 (−)	0.717 ± 0.087 (−)	0.717 ± 0.087 (−)	0.825 ± 0.096 (1,2,3,6)	0.818 ± 0.089 (1,2,3,6,7)	0.819 ± 0.077 (1,2,3)	0.824 ± 0.087 (1,2,3,6)
ecoli-0-6-7-vs-5	0.842 ± 0.121 (−)	0.871 ± 0.117 (1,2,3)	0.871 ± 0.117 (1,2,3)	0.868 ± 0.104 (1,2,3)	0.868 ± 0.101 (1,2,3)	0.849 ± 0.102 (−)	0.850 ± 0.102 (−)
glass-0-1-6-vs-5	0.822 ± 0.182 (−)	0.837 ± 0.162 (1,6,7)	0.837 ± 0.162 (1,6,7)	0.858 ± 0.160 (1,6,7)	0.872 ± 0.160 (6,7)	0.897 ± 0.129 (−)	0.924 ± 0.115 (−)
ecoli-0-1-3-7-vs-2-6	0.820 ± 0.209 (−)	0.678 ± 0.219 (−)	0.703 ± 0.222 (−)	0.841 ± 0.200 (4)	0.837 ± 0.200 (4)	0.832 ± 0.195 (−)	0.807 ± 0.194 (6)
yeast-0-2-5-6-vs-3-7-8-9	0.725 ± 0.050 (2,7)	0.728 ± 0.047 (−)	0.728 ± 0.045 (−)	0.766 ± 0.056 (2,3,5,6,7)	0.765 ± 0.055 (2,6,7)	0.730 ± 0.036 (1,2,7)	0.734 ± 0.037 (2)
ecoli-0-1-4-7-vs-5-6	0.809 ± 0.095 (−)	0.815 ± 0.091 (−)	0.817 ± 0.090 (−)	0.875 ± 0.098 (1,2,3,6,7)	0.892 ± 0.080 (1,2,3,6,7)	0.844 ± 0.087 (−)	0.877 ± 0.060 (−)
yeast5	0.819 ± 0.085 (−)	0.818 ± 0.080 (−)	0.821 ± 0.077 (−)	0.926 ± 0.051 (1,2,3,6)	0.928 ± 0.060 (1,2,3,6)	0.936 ± 0.046 (1,2,3)	0.944 ± 0.051 (1,2,3,6)
shuttle-c2-vs-c4	1.000 ± 0.000 (−)	1.000 ± 0.000 (−)	1.000 ± 0.000 (−)	0.995 ± 0.034 (1,2,3)	0.995 ± 0.034 (1,2,3,4)	0.995 ± 0.034 (1,2,3,4)	0.995 ± 0.034 (1,2,3)
ecoli-0-1-4-7-vs-2-3-5-6	0.796 ± 0.092 (−)	0.811 ± 0.097 (−)	0.813 ± 0.097 (−)	0.851 ± 0.091 (1,2,3,6,7)	0.857 ± 0.085 (1,2,3,6,7)	0.791 ± 0.074 (−)	0.823 ± 0.064 (1,6)
yeast-0-3-5-9-vs-7-8	0.656 ± 0.070 (2,3)	0.595 ± 0.054 (6)	0.598 ± 0.053 (6)	0.653 ± 0.067 (2,3)	0.664 ± 0.075 (2,3)	0.689 ± 0.068 (1,2,3,4)	0.687 ± 0.056 (1,2,3,4,5)
yeast-1-vs-7	0.669 ± 0.095 (2,3)	0.549 ± 0.052 (−)	0.549 ± 0.053 (−)	0.676 ± 0.114 (2,3)	0.657 ± 0.109 (2,3)	0.728 ± 0.070 (1,2,3,4,5)	0.720 ± 0.086 (1,2,3,4,5)
yeast-1-2-8-9-vs-7	0.622 ± 0.082 (2,3)	0.555 ± 0.060 (−)	0.555 ± 0.060 (−)	0.665 ± 0.078 (2,3,5)	0.653 ± 0.071 (2,3)	0.686 ± 0.097 (1,2,3,4,5)	0.704 ± 0.095 (1,2,3,4,5)
ecoli-0-1-4-6-vs-5	0.792 ± 0.090 (2,3)	0.837 ± 0.092 (−)	0.839 ± 0.092 (−)	0.889 ± 0.076 (1,2,3)	0.898 ± 0.084 (2,3)	0.870 ± 0.079 (1,2,3,5)	0.880 ± 0.079 (1,2,3,4,5)
glass-0-1-5-vs-2	0.592 ± 0.127 (−)	0.562 ± 0.111 (1)	0.563 ± 0.111 (1)	0.704 ± 0.134 (1,2,3,6)	0.725 ± 0.135 (1,2,3,6,7)	0.662 ± 0.100 (1,2,3)	0.715 ± 0.118 (1,2,3)
yeast-2-vs-4	0.844 ± 0.064 (−)	0.838 ± 0.060 (−)	0.837 ± 0.059 (−)	0.848 ± 0.066 (1,2,3,6)	0.848 ± 0.068 (1,2,3,6)	0.926 ± 0.043 (1,2,3,6)	0.919 ± 0.045 (1,2,3,6)
glass-0-6-vs-5	0.899 ± 0.171 (−)	0.900 ± 0.165 (−)	0.900 ± 0.165 (−)	0.810 ± 0.183 (−)	0.799 ± 0.192 (−)	0.816 ± 0.168 (1,2,3,4,5)	0.834 ± 0.179 (1,2,3,4,5)
glass2	0.561 ± 0.118 (4,5,6,7)	0.584 ± 0.088 (4,5,6,7)	0.587 ± 0.091 (4,5,6,7)	0.696 ± 0.137 (−)	0.738 ± 0.123 (−)	0.654 ± 0.112 (−)	0.751 ± 0.104 (6)
yeast-2-vs-8	0.704 ± 0.113 (−)	0.736 ± 0.122 (1)	0.736 ± 0.122 (1)	0.776 ± 0.110 (1,2,3,6)	0.776 ± 0.110 (1,2,3,6)	0.773 ± 0.113 (1,2,3)	0.769 ± 0.112 (1,2,3,4,6)
vowel0	0.963 ± 0.028 (4,5)	0.955 ± 0.029 (4,5)	0.956 ± 0.029 (4,5)	0.859 ± 0.058 (−)	0.852 ± 0.057 (−)	0.968 ± 0.022 (4,5)	0.963 ± 0.029 (4,5)
glass-0-4-vs-5	0.992 ± 0.016 (2,3,4,5)	0.991 ± 0.018 (4,5)	0.992 ± 0.016 (4,5)	0.939 ± 0.131 (−)	0.950 ± 0.122 (−)	0.931 ± 0.136 (2,3,4,5)	0.944 ± 0.127 (2,4,5)
glass-0-1-4-6-vs-2	0.573 ± 0.117 (−)	0.556 ± 0.101 (−)	0.559 ± 0.105 (−)	0.684 ± 0.139 (6)	0.700 ± 0.135 (6)	0.653 ± 0.140 (−)	0.707 ± 0.143 (−)
yeast4	0.668 ± 0.071 (−)	0.596 ± 0.059 (−)	0.594 ± 0.054 (−)	0.761 ± 0.072 (1,2,3,6)	0.754 ± 0.073 (1,2,3)	0.809 ± 0.061 (1,2,3)	0.815 ± 0.063 (1,2,3,6)
ecoli-0-4-6-vs-5	0.814 ± 0.102 (2,3)	0.850 ± 0.095 (−)	0.850 ± 0.095 (−)	0.890 ± 0.088 (1,2,3)	0.911 ± 0.083 (1,2,3)	0.878 ± 0.091 (1,2,3,4,5)	0.892 ± 0.076 (1,2,3,4,5)
page-blocks-1-3-vs-4	0.956 ± 0.064 (4,5,6)	0.979 ± 0.052 (1,4,5,6,7)	0.979 ± 0.052 (1,4,5,6,7)	0.759 ± 0.109 (−)	0.850 ± 0.104 (4)	0.940 ± 0.069 (4,5)	0.938 ± 0.075 (4,5)
yeast-0-2-5-7-9-vs-3-6-8	0.844 ± 0.051 (−)	0.872 ± 0.046 (1)	0.873 ± 0.046 (1)	0.899 ± 0.037 (1,2,3,6,7)	0.901 ± 0.037 (1,2,3,6,7)	0.866 ± 0.032 (1)	0.876 ± 0.028 (1,6)
ecoli-0-1-vs-2-3-5	0.786 ± 0.114 (−)	0.810 ± 0.098 (1)	0.813 ± 0.099 (1)	0.855 ± 0.091 (1,2,3,6,7)	0.857 ± 0.091 (1,2,3,6,7)	0.850 ± 0.094 (1)	0.847 ± 0.088 (1,6)
ecoli-0-6-7-vs-3-5	0.821 ± 0.123 (−)	0.830 ± 0.110 (−)	0.831 ± 0.110 (−)	0.829 ± 0.107 (1,2,3)	0.830 ± 0.105 (1,2,3)	0.806 ± 0.092 (1,2,3)	0.802 ± 0.092 (1,2,3)
ecoli-0-3-4-7-vs-5-6	0.843 ± 0.085 (6,7)	0.853 ± 0.089 (6,7)	0.857 ± 0.086 (6,7)	0.881 ± 0.081 (6,7)	0.879 ± 0.078 (6,7)	0.858 ± 0.069 (−)	0.856 ± 0.067 (−)
ecoli-0-2-6-7-vs-3-5	0.813 ± 0.129 (−)	0.821 ± 0.101 (−)	0.821 ± 0.101 (−)	0.835 ± 0.113 (1,6,7)	0.842 ± 0.101 (1,6,7)	0.812 ± 0.092 (−)	0.819 ± 0.083 (−)
shuttle-c0-vs-c4	1.000 ± 0.000 (−)	1.000 ± 0.000 (−)	1.000 ± 0.000 (1)	0.998 ± 0.006 (1,6,7)	0.998 ± 0.006 (1,6,7)	0.998 ± 0.006 (−)	0.998 ± 0.006 (−)
ecoli-0-3-4-vs-5	0.828 ± 0.116 (−)	0.870 ± 0.115 (1)	0.875 ± 0.112 (1)	0.897 ± 0.111 (1,2,6,7)	0.912 ± 0.112 (1,2,6,7)	0.876 ± 0.093 (1)	0.889 ± 0.096 (1)

Table 9: Results for AUC metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.720 (−)	2.854 (−)	3.329 (2)	4.707 (1,2,3)	5.073 (1,2,3,6)	4.268 (1,2)	5.049 (1,2,3,6)

Table 10: Results for mean ranks according to AUC metric

Dataset	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
glass4	0.813 ± 0.193	0.830 ± 0.170	0.831 ± 0.170	0.732 ± 0.256	0.729 ± 0.251	0.792 ± 0.175	0.883 ± 0.115
ecoli-0-2-3-4-vs-5	0.834 ± 0.109 [4,5]	0.847 ± 0.121 [4,5]	0.850 ± 0.119 [4,5]	0.893 ± 0.098 [—]	0.901 ± 0.091 [—]	0.874 ± 0.095 [—]	0.880 ± 0.085
glass-0-1-6-vs-2	0.358 ± 0.310 [—]	0.189 ± 0.294 [1]	0.190 ± 0.294 [1]	0.678 ± 0.175 [1,2,6,7]	0.709 ± 0.139 [1,2,3,6,7]	0.618 ± 0.148 [—]	0.721 ± 0.094 [1]
ecoli-0-1-vs-5	0.788 ± 0.125 [2,3]	0.822 ± 0.132 [—]	0.824 ± 0.134 [—]	0.882 ± 0.092 [1,2,3,6]	0.893 ± 0.087 [1,2,3,6]	0.890 ± 0.087 [1,2,3]	0.892 ± 0.078 [1,2,3,6]
yeast-1-4-5-8-vs-7	0.261 ± 0.254 [—]	0.041 ± 0.122 [1]	0.041 ± 0.122 [1]	0.515 ± 0.150 [1,2,3]	0.543 ± 0.144 [1,2,3]	0.621 ± 0.102 [1,2,3]	0.608 ± 0.128 [1,2,3]
ecoli4	0.854 ± 0.106 [2,3]	0.854 ± 0.131 [—]	0.854 ± 0.131 [—]	0.911 ± 0.097 [1,2,3]	0.911 ± 0.115 [1,2,3,4]	0.912 ± 0.074 [1,2,3,4,5]	0.913 ± 0.078 [1,2,3,4,5]
led7digit-0-2-4-5-6-7-8-9-vs-1	0.871 ± 0.081	0.870 ± 0.081	0.871 ± 0.081	0.516 ± 0.202 [1,2,3]	0.523 ± 0.192 [1,2,3]	0.860 ± 0.084 [1,2,3,4]	0.856 ± 0.084 [1,2,3,5]
glass5	0.729 ± 0.364 [2,3,4,5]	0.692 ± 0.369 [4,5]	0.692 ± 0.369 [4,5]	0.847 ± 0.276 [4,5,7]	0.876 ± 0.248 [—]	0.893 ± 0.203 [—]	0.932 ± 0.160 [4,5]
ecoli-0-3-4-6-vs-5	0.796 ± 0.143 [—]	0.830 ± 0.145 [—]	0.834 ± 0.138 [—]	0.880 ± 0.124 [—]	0.895 ± 0.097 [1,2,3,4]	0.871 ± 0.103 [2,3,4,5]	0.879 ± 0.079 [2,3,5,6]
yeast-0-5-6-7-9-vs-4	0.605 ± 0.121 [1]	0.568 ± 0.138 [1]	0.564 ± 0.140 [1]	0.780 ± 0.057 [1,2,3,6]	0.779 ± 0.059 [1,2,3,6,7]	0.751 ± 0.050 [1,2]	0.769 ± 0.052 [1,2,3]
yeast6	0.670 ± 0.136	0.647 ± 0.137	0.647 ± 0.137	0.802 ± 0.122 [1,2,3,6]	0.793 ± 0.114 [1,2,3,6]	0.808 ± 0.090 [1,2,3]	0.809 ± 0.108 [1,2,3,6]
ecoli-0-6-7-vs-5	0.811 ± 0.182	0.852 ± 0.144 [—]	0.852 ± 0.144 [—]	0.851 ± 0.127 [1,2,3]	0.851 ± 0.124 [1,2,3]	0.836 ± 0.122	0.836 ± 0.122
glass-0-1-6-vs-5	0.729 ± 0.343 [—]	0.770 ± 0.290 [1,6,7]	0.770 ± 0.290 [1,6,7]	0.805 ± 0.273 [1,6,7]	0.820 ± 0.275 [6,7]	0.872 ± 0.207 [—]	0.908 ± 0.170 [—]
ecoli-0-1-3-7-vs-2-6	0.695 ± 0.405 [—]	0.393 ± 0.452 [—]	0.447 ± 0.457 [—]	0.735 ± 0.383 [—]	0.732 ± 0.382 [4]	0.726 ± 0.378 [—]	0.696 ± 0.381 [6]
yeast-0-2-5-6-vs-3-7-8-9	0.690 ± 0.067 [2]	0.680 ± 0.068 [—]	0.680 ± 0.065 [—]	0.732 ± 0.076 [2,3,5,6,7]	0.732 ± 0.075 [2,3,6,7]	0.724 ± 0.033 [1,2,3,7]	0.729 ± 0.035 [1,2,3]
ecoli-0-1-4-7-vs-5-6	0.784 ± 0.121 [—]	0.786 ± 0.121 [—]	0.789 ± 0.119 [—]	0.859 ± 0.122 [1,2,3]	0.882 ± 0.090 [1,2,3]	0.833 ± 0.104 [1,2,3]	0.874 ± 0.063 [1,2,3]
yeast5	0.793 ± 0.113	0.792 ± 0.102	0.797 ± 0.097 [—]	0.922 ± 0.056 [1,2,3,6]	0.924 ± 0.067 [1,2,3,6]	0.934 ± 0.049 [1,2,3]	0.942 ± 0.054 [1,2,3,6]
shuttle-c2-vs-c4	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000 [—]	0.994 ± 0.041 [1,2,3]	0.994 ± 0.041 [1,2,3,4]	0.994 ± 0.041 [1,2,3,4]	0.994 ± 0.041 [1,2,3]
ecoli-0-1-4-7-vs-2-3-5-6	0.770 ± 0.117	0.780 ± 0.136 [—]	0.782 ± 0.137 [—]	0.831 ± 0.117 [—]	0.841 ± 0.105 [—]	0.783 ± 0.084 [—]	0.817 ± 0.068 [—]
yeast-0-3-5-9-vs-7-8	0.588 ± 0.119	0.421 ± 0.168	0.426 ± 0.166	0.560 ± 0.137 [1,2,3,6]	0.585 ± 0.145 [1,2,3,6,7]	0.677 ± 0.066 [—]	0.674 ± 0.056 [1,6]
yeast-1-vs-7	0.582 ± 0.181 [2,3]	0.241 ± 0.218 [—]	0.241 ± 0.218 [—]	0.625 ± 0.158 [2,3]	0.603 ± 0.166 [2,3]	0.720 ± 0.073 [1,2,3,4,5]	0.713 ± 0.085 [1,2,3,4,5]
yeast-1-2-8-9-vs-7	0.475 ± 0.209 [2,3]	0.243 ± 0.232 [—]	0.243 ± 0.232 [—]	0.595 ± 0.124 [2,3,5]	0.570 ± 0.152 [2,3]	0.664 ± 0.123 [1,2,3,4,5]	0.688 ± 0.112 [1,2,3,4,5]
ecoli-0-1-4-6-vs-5	0.756 ± 0.151 [2,3]	0.815 ± 0.116 [—]	0.818 ± 0.116 [—]	0.879 ± 0.086 [1,2,3]	0.889 ± 0.096 [1,2,3]	0.864 ± 0.086 [1,2,3,4,5]	0.874 ± 0.086 [1,2,3,4,5]
glass-0-1-5-vs-2	0.389 ± 0.300 [—]	0.221 ± 0.305 [1]	0.221 ± 0.305 [1]	0.673 ± 0.191 [1,2,3,6]	0.702 ± 0.175 [1,2,3,6,7]	0.642 ± 0.093 [1,2,3]	0.690 ± 0.147 [1,2,3]
yeast-2-vs-4	0.831 ± 0.076 [2,3]	0.823 ± 0.075 [—]	0.822 ± 0.074 [—]	0.833 ± 0.078 [1,2,3,6]	0.833 ± 0.080 [1,2,3,6]	0.924 ± 0.045 [1,2,3]	0.918 ± 0.047 [1,2,3,6]
glass-0-6-vs-5	0.846 ± 0.301	0.856 ± 0.277 [—]	0.856 ± 0.277 [—]	0.717 ± 0.340	0.686 ± 0.367 [—]	0.771 ± 0.265 [1,2,3,4,5]	0.756 ± 0.329 [1,2,3,4,5]
glass2	0.276 ± 0.311 [4,5,6,7]	0.316 ± 0.285 [4,5,6,7]	0.321 ± 0.289 [4,5,6,7]	0.646 ± 0.215 [—]	0.715 ± 0.165 [—]	0.635 ± 0.135 [7]	0.738 ± 0.108 [—]
yeast-2-vs-8	0.598 ± 0.252	0.646 ± 0.238 [—]	0.646 ± 0.238 [—]	0.728 ± 0.153 [1,2,3]	0.728 ± 0.153 [1,2,3,6]	0.753 ± 0.139 [1,2,3]	0.747 ± 0.140 [1,2,3,4,6]
vowel0	0.962 ± 0.029	0.954 ± 0.030 [1]	0.955 ± 0.030 [1]	0.845 ± 0.071 [1,2,3]	0.838 ± 0.067 [1,2,3]	0.968 ± 0.022 [1,2,3]	0.962 ± 0.030 [1,2,3]
glass-0-4-vs-5	0.991 ± 0.017 [2,3,4,5]	0.991 ± 0.018 [4,5]	0.991 ± 0.017 [4,5]	0.913 ± 0.215 [—]	0.925 ± 0.211 [—]	0.906 ± 0.215 [2,3,4,5]	0.920 ± 0.211 [2,3,4,5]
glass-0-1-4-6-vs-2	0.336 ± 0.298	0.206 ± 0.293	0.210 ± 0.300	0.623 ± 0.244	0.658 ± 0.210 [6]	0.615 ± 0.188 [—]	0.680 ± 0.186 [—]
yeast4	0.581 ± 0.126 [—]	0.420 ± 0.151 [—]	0.417 ± 0.147 [—]	0.728 ± 0.099 [1,2,3]	0.718 ± 0.103 [1,2,3]	0.804 ± 0.070 [1,2,3]	0.809 ± 0.069 [1,2,3,6]
ecoli-0-4-6-vs-5	0.787 ± 0.136 [2,3]	0.830 ± 0.119 [—]	0.830 ± 0.119 [—]	0.880 ± 0.100 [1,2,3]	0.905 ± 0.092 [1,2,3]	0.872 ± 0.098 [1,2,3,4,5]	0.889 ± 0.079 [1,2,3,4,5]
page-blocks-1-3-vs-4	0.952 ± 0.072	0.977 ± 0.058 [1]	0.977 ± 0.058 [1]	0.702 ± 0.175 [1,2,3,6]	0.825 ± 0.135 [1,2,3,6,7]	0.937 ± 0.074 [1]	0.933 ± 0.084 [1,2,3]
yeast-0-2-5-7-9-vs-3-6-8	0.832 ± 0.061 [4,5,6]	0.863 ± 0.053 [1,4,5,6,7]	0.864 ± 0.053 [1,4,5,6,7]	0.894 ± 0.041 [—]	0.896 ± 0.041 [4]	0.863 ± 0.033 [4,5]	0.874 ± 0.029 [4,5]
ecoli-0-1-vs-2-3-5	0.746 ± 0.175 [—]	0.782 ± 0.129 [1]	0.784 ± 0.130 [1]	0.836 ± 0.113 [1,2,3,6,7]	0.838 ± 0.112 [1,2,3,6,7]	0.841 ± 0.108 [1]	0.838 ± 0.102 [1,6]
ecoli-0-6-7-vs-3-5	0.780 ± 0.206 [—]	0.797 ± 0.172 [—]	0.797 ± 0.172 [—]	0.805 ± 0.132 [1,2,3]	0.807 ± 0.130 [1,2,3]	0.793 ± 0.106 [1,2,3]	0.788 ± 0.109 [1,2,3]
ecoli-0-3-4-7-vs-5-6	0.828 ± 0.102 [—]	0.835 ± 0.107 [6,7]	0.840 ± 0.104 [6,7]	0.871 ± 0.094 [6,7]	0.869 ± 0.091 [6,7]	0.852 ± 0.073 [1]	0.852 ± 0.070 [1]
ecoli-0-2-6-7-vs-3-5	0.771 ± 0.207 [—]	0.793 ± 0.133 [1,6]	0.794 ± 0.133 [1,6]	0.809 ± 0.145 [1,6]	0.822 ± 0.125 [1,6]	0.796 ± 0.111 [—]	0.807 ± 0.097 [—]
shuttle-c0-vs-c4	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000 [1]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006 [1,6,7]	0.998 ± 0.006 [—]	0.998 ± 0.006 [—]
ecoli-0-3-4-vs-5	0.802 ± 0.148 [—]	0.851 ± 0.142 [1]	0.857 ± 0.138 [1]	0.883 ± 0.134 [1,6,7]	0.893 ± 0.169 [1,6,7]	0.866 ± 0.109 [1]	0.880 ± 0.114 [1]

Table 11: Results for GMEAN metric

	CART (1)	OSB (2)	OKNORAU (3)	TBAC (4)	OTBAC (5)	TBAW (6)	OTBAW (7)
Mean rank	2.695 [—]	2.646 [—]	3.146 [2]	4.585 [1,2,3]	4.951 [1,2,3]	4.634 [1,2,3]	5.341 [1,2,3,4,6]

Table 12: Results for mean ranks according to GMEAN metric